District I 1625 N. French Dr., Hobbs, NM 88240 District II

811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 30 2012 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico HOBES OCD Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Revised August 1, 2011

Form C-144 CLEZ

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closer Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: ConocoPhillips Company OGRID #: 217817 Address: P. O. Box 51810 Midland, TX 79710 Facility or well name: Grayburg Deep 14 OCD Permit Number: 213348 API Number: 30-015-297/6 79766 Section 25 Township 178 Range 29E County: Lea Eddy U/L or Otr/Otr D Center of Proposed Design: Latitude Surface Owner: X Federal State Private Tribal Trust or Indian Allotment X Closed-loop System: Subsection H of 19.15.17.11 NMAG Operation: Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) P&A X Above Ground Steel Tanks or X Haul-off Bins AUG 22 2012 Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers NMOCD ARTESIA ☐ Signed in compliance with 19.15.16.8 NMAC Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design)

Disposal Facility Name: Controlled Recovery

API Number:

Previously Approved Operating and Maintenance Plan

API Number:

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: Disposal Facility Permit Number:

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?

Yes (If yes, please provide the information below) No

Required for impacted areas which will not be used for future service and operations:

Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Rhonda_Rogers

Title: Staff Regulatory Technician

Disposal Facility Permit Number: NM-01-0006

Date: -08/17/2012

e-mail address: rogerrs@conocophillips.com

Telephone: (432)688-9174

Form C-144 CLEZ

Oil Conservation Division

Page 1 of 2

OCD Approval: Permit Application (including closure plan) C	Closure Plan (only)
OCD Representative Signature:	Approval Date: 8/28/12
Title: DIST # Spawist	Approval Date: 8/28/12 OCD Permit Number: 2/33 48
	bsection K of 19.15.17.13 NMAC in prior to implementing any closure activities and submitting the closure report. days of the completion of the closure activities. Please do not complete this
	Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: uids, drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)	ned on or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	d operations:
10. Operator Closure Certification:	
•	closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.
Name (Print): Rhonda Rogers	Title: Staff Regulatory Technician
Signature:	Date:
e-mail address: rogerrs@conocophillips.com	Telephone:(432)688-9174

ConocoPhillips Company Closed-loop Plans

Closed-loop Design Plan

COPC's closed loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will include an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

- 1. Fencing is not required for an above ground closed-loop system
- 2. It will be signed in compliance with 19.15.3.103 NMAC
- 3. A frac tank will be on location to store fresh water

Closed-loop Operating and Maintenance Plan

COPC's closed-loop tank will be operated and maintained to contain liquids and solids in order to prevent contamination of fresh water sources, in order to protect public health and the environment. To ensure the operation is maintained the following steps will be followed:

- 1. The liquids will be vacuumed out and disposed of at the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) on a periodic basis to prevent over topping.
- 2. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
- 3. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately

Closed-loop Closure Plan

The closed-loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.

Grayburg Deep Unit 14

Blinebry Re-completion API # 30-015-29766

Location: 868' FNL & 1062' FWL Sec 25 T17S R29E, Eddy County, NM

Lat 32° 48' 37.044"N Long 104° 1' 58.512"W

Depths: TD =11,400' PBTD =11,334'

Elevation: GL =3594' KB =19' KBM =3613'

Spud Date: 08/30/1997

Objective of this Work: Recomplete this inactive Morrow gas well into the Blinebry as a test of the Blinebry production potential in this wellbore. This procedure assumes a category 2 well, after recompletion. This re-completion will provide vital information Present Status: shut-in

Maximum Anticipated Well Category: 2 this well is expected to flow at rates greater than 500 MCFD, but less than 3000 MCFD post workover. The barrier requirements would then be two untested barriers

BOPE Class: 2 BOP equipment will only be used while removing and installing production tubing. MPSP for Penn interval is expected to be 1000 psi or less due to depletion. If necessary simultaneously produce the well to sales or load the casing up to 2/3 full with 2% KCL to equal maximum SI pressure.

Casing:

,	Depth	ID	Drift	Burst	Callapse	Capacity (bbl/ft)
11 ¾" 42# H-40 ST&C	530'	11.084	10.92 8	1980#	1070#	.01193
8 5/8" 32# J-55 ST&C	4520'	7.921	7.796	3930#	2530	0.0609
5 ½" 17# N-80 & 15/5# J55 LT&C	11,400'	4.892	4.767	4230#	4910	0.0232

	Depth	ID	Drift	Tensile	Burst	Collapse	Capacity (bbl/ft)
2 3/8" 4/7# L-80 8rd EUE	10909'	1.995	1.901	104340	11200	11780	.00387

Surface

Cement w/430 sxs TOC = surface

Intermediate
Cement w/1160 sxs TOC = surface
Production
Cement w/2375sxs TOC @ Surface

RESERVOIR PROPERTIES

Pressures: Morrow: @ 10,900'± Reservoir: ± 1000 psig (est.)

WHSIP: ± 250 psig (measured)

(Proposed) Blinebry: @ 6280'± Reservoir: + 2920psig (est.)

WHSIP: +250psig (est.)

Reservoir Temp. Blinebry: 120°F

Recommended Procedure and Notes

Notes:

1. All depths in this procedure are referenced from KB unless noted otherwise.

- 2. Give service companies 48 hours advance notice prior to performing work on the well.
- 3. Hold pre-job safety meeting & review JSA prior to beginning any new work/task. Procedure:
- 1. Test pull rig anchors to 15,000 lbs. and replace as needed.
- 2. Contact NOV-GE (contact Jay Fields 432-260-8298) for wellhead support and setting a two-way check valve in tubing hanger.

The two-way check-valve and hanger seals provide a single barrier tested in the direction of flow to maximum differential for the tubing and annulus, which meets Well Control requirements for a well incapable of generating over 1000 psi surface pressure.

- 3. MIRU Series 400 work over rig or larger.
- 4. Bleed any remaining pressure from the tree and monitor for 30 minutes to ensure the two-way check and hanger seals are holding. Remove tree from the adapter flange up. Install a 7 1/16" 10k x 5k adapter spool w/ two side ports (kill line & choke manifold), a hydraulically operated, 5k psi BOP with blind rams and a 5k Hydril. Screw a lifting sub into the hanger and test the Hydril according to the attached SOP. Test to 1500 psi high and 250 psi low.
- 5. Top kill the annulus as follows:

Pump sufficient volume of 4% KCL to overcome surface pressure, plus an additional 15%, at 2-3 bbl/min.

Volume to pump = ((Surf pressure/0.437) \times 0.0291) \times 1.15 Stop pumping and monitor to ensure well is on a surface vacuum.

Resume pumping + 0.5 bpm and monitor for 30 minutes to ensure well stays on a vacuum. If needed, increase the surface pump rate. Have at least 3 hours of water supply on location

- 6. Back out the hold-down pins; pick up, remove, and lay down the tubing hanger.
- 7. Pick up a single (1) joint of tubing, release production packer, then POOH w/ tubing

- & packer. Visually inspect tubing while POOH. Tally tubing out of the wellbore to confirm depth. Visually inspect tubing and stand a minimum of 9100' of good tubing back in derrick. Send remaining tubing and production packer in for R&R or disposal after performing hydro-test on tubing prior to cement squeeze step.
- 8. Notify BLM that we are abandoning the lower part of the hole in case they want to witness any of the plug settings. PU-RIH with CIBP on 2%", 6.5#/ft N-80 work string. Set CIBP @ 10,900'±, spot 35 sxs cement on top of CIBP, PU and reverse out; wait on cement 12 hours; TIH and tag top of cement. POOH.
- 9. PU-RIH w/ a CIBP. Set CIBP @ 9,100°±, spot 35 sxs cement on top of CJBP, PU and reverse out; wait on cement 12 hours; TIH and tag top of cement. POOH laying down work string. RD MO workover rig.
- 10. MI-RU Schlumberger cased hole logging services w\ a packoff (or 2000 psi shop tested lubricator, if required). PU-RIH w\ a combination GR/CBL/CCL/USI tool (correlate depth to Halliburton Dual Laterolog dated 10/03/1997) to determine and record the new top of cement. RD-MO cased hole logging services.
- 11. MI-RU cased hole perforating services w\ a packoff (or 2000 psi shop tested lubricator, if required). PU-RIH w/ a CIBP and set CIBP @ 6,700'±, then POOH. RIH w/ a 3%" gun system loaded with 25 gm HMX charges (or equivalent). Stagger shots to accomplish 600 phasing and perforate @ as follows (correlate depth to GR/CBL log run in previous trip to the well).

Perf Depth	Feet	SPF	Shots
6239-6249'	10	2	20
6340-6350'	10	2	20
Total Shots 4	0		

- 12. POOH. Confirm all shots fired.
- 13. RDMO e-line perforating services.
- 14. Set frac water tanks according to stimulation proposal.
- 15. MI-RU a hydro-test services to test work string in while RIH in preparation for fracture treatment.
- 16. PU-RIH with a treating packer on a 2%", 6.5#/ft N-80 work string. Hydro-test work string to 5000 psi, note all testing will be performed below grade. Once on depth release hydro-test and set treating packer @ 6,000'± (or a minimum of 100' above top perforation).
- 17. MI-RU Halliburton stimulation services. RU frac valve directly onto 2½" work string to frac the Blinebry @ 20-30 bpm as per attached procedure. Bring adequate horsepower to accomplish 20-30 bpm @ 3,500 psi. An acid ball-out will be part of the procedure, so a remote ball launcher and N2 operated relief valve are required. Monitor the 2½" x 5½" annulus.
- 18. Prime pumps and lines back to the blender and verify flow meter agreement. Pressure test liquid lines against Frac Valve to 5,000 psi for a minimum of five (5) minutes. An acceptable test is 100 psi/min or 300 psi in 3 minutes.
- 19. Frac the Blinebry zone from 6239-6350' with 100,000# 20/40 Ottawa resin coated sand. Perform facture treatment per the attached proposal @ 20-30 bpm @ 3,500 psi. Shut down and monitor the pressure decline for 15 minutes.

TREATING LINE TEST PRESSURE: A minimum 500 psig over MAWP. Acceptable test will be no more than 300 psi leak off in 5 minutes, with no more than 1% leak off in last minute, AND NO VISIBLE LEAKS).	5000	PSIG
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system (85% of 15.5# J-55 casing burst)	4,090	PSIG
NITROGEN POP-OFF SETTING: the valve is to be tested prior to pumping, and must pop within 500 psi of set pressure.	4,000	PSIG
TRUCK KILL SETTING	4,000	PSIG
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	3,500	PSIG
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	3,500	PSIG

- 20. Obtain ISIP. Continue monitoring and recording for 20 minutes following shut-in (every 5 minutes).
- 21. RD-MO Halliburton stimulation equipment.
- 22. Shut-in well overnight to allow Resin to cure (or as directed by stimulation company representative).
- 23. Open well and begin flowing /unloading the well. Flow well until it loads up / dies. POOH with workstring.
- 24. MI-RU cased hole perforating services w\ a packoff (or 2000 psi shop tested lubricator, if required). TIH and set 10K top drill composite plug at 5800'±. Test plug to 500 psi. RIH w/ a Schlumberger 3-3/8" gun system loaded with 25 gm HMX charges (or equivalent). Stagger shots to accomplish 600 phasing and perforate @

as follows (correlate depth to GR/CBL log run in previous trip to the well).

Perf Depth	Feet	SPF	Shots
5593-5603	10	2	20
5610-5620	10	2	20
Total Shots 4	0		

- 25. POOH. Confirm all shots fired.
- 26. RDMO e-line perforating services.
- 27. Set frac water tanks according to stimulation proposal.
- 28. MI-RU a hydro-test services to test work string in while RIH in preparation for fracture treatment.
- 29. PU-RIH with a treating packer on a 2%", 6.5#/ft N-80 work string. Hydro-test work string to 5000 psi, note all testing will be performed below grade. Once on depth release hydro-test and set treating packer @ 5,300'± (or a minimum of 100' above top perforation).
- 30. RD-MO Well Service unit if waiting time on frac date is extensive.
- 31. MI-RU Halliburton stimulation services. RU frac valve directly onto 2%" work string to frac the Blinebry @ 20-30 bpm as per attached procedure. Bring adequate horsepower to accomplish 20-30 bpm @ 3,500 psi. An acid ball-out will be part of the procedure, so a remote ball launcher and N2 operated relief valve are required. Monitor the 2%" x 5½" annulus.
- 32. Prime pumps and lines back to the blender and verify flow meter agreement. Pressure test liquid lines against Frac Valve to 5,000 psi for a minimum of five (5) minutes. An acceptable test is 100 psi/min or 300 psi in 3 minutes.
- 33. Frac the Blinebry zone from 5593-5620' with 50,000# 20/40 Ottawa resin coated sand. Perform facture treatment per the attached proposal @ 20-30 bpm @ 3,500 psi. Shut down and monitor the pressure decline for 15 minutes.

TREATING LINE TEST PRESSURE: A minimum 500 psig over MAWP. Acceptable test will be no more than 300 psi leak off in 5 minutes, with no more than 1% leak off in last minute, AND NO VISIBLE LEAKS).	5000	PSIG	
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system (85% of 15.5# J-55 casing burst)	4,090	PSIG	

NITROGEN POP-OFF SETTING: the valve is to be tested prior to pumping, and must pop within 500 psi of set pressure.	4,000	PSIG
TRUCK KILL SETTING	4,000	PSIG
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	3,500	PSIG
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	3,500	PSIG

- 34. Obtain ISIP. Continue monitoring and recording for 20 minutes following shut-in (every 5 minutes).
- 35. RD-MO Halliburton stimulation equipment.
- 36. Shut-in well overnight to allow Resin to cure (or as directed by stimulation company representative).
- 37. Open well and begin flowing /unloading the well. Flow well until it loads up / dies. POOH with work string.
- 38. MI-RU cased hole perforating services w\ a packoff (or 2000 psi shop tested lubricator, if required). TIH and set 10K top drill composite plug at 5400'±. Test plug to 500 psi. RIH w/ a 3\%" gun system loaded with 25 gm HMX charges (or equivalent). Stagger shots to accomplish 600 phasing and perforate @ as follows (correlate depth to GR/CBL log run in previous trip to the well).

Perf Depth	Feet	SPF	Shots
5200-5205'	05	2	10
5213-5218'	05	2	10
5248-5253'	05	2	10
5259-5264'	05	2	10
Total Shots 4	10		

- 39. POOH. Confirm all shots fired.
- 40. RDMO e-line perforating services.
- 41. Set frac water tanks according to stimulation proposal.
- 42. MI-RU a hydro-test services to test work string in while RIH in preparation for fracture treatment.
- 43. PU-RIH with a treating packer on a 21/2", 6.5#/ft N-80 work string. Hydro-test work

string to 5000 psi, note all testing will be performed below grade. Once on depth release hydro-test and set treating packer @ 5,150± (or a minimum of 100' above top perforation).

44. RD-MO Well Service unit if waiting time on frac date is extensive.

45. MI-RU Halliburton stimulation services. RU frac valve directly onto 2-7/8" work string

to frac the Blinebry @ 20-30 bpm as per attached procedure. Bring adequate horsepower to accomplish 20-30 bpm @ 3,500 psi. An acid ball-out will be part of the procedure, so a remote ball launcher and N2 operated relief valve are required. Monitor the 21/8" x 51/2" annulus.

46. Prime pumps and lines back to the blender and verify flow meter agreement. Pressure test liquid lines against Frac Valve to 5,000 psi for a minimum of five (5) minutes. An acceptable test is 100 psi/min or 300 psi in 3 minutes.

47. Frac the Blinebry zone from 5200-5264' with 100,000# 20/40 Ottawa resin coated sand. Perform facture treatment per the attached proposal @ 20-30 bpm @ 3,500 psi. Shut down and monitor the pressure decline for 15 minutes.

TREATING LINE TEST PRESSURE: A minimum 500 psig over MAWP. Acceptable test will be no more than 300 psi leak off in 5 minutes, with no more than 1% leak off in last minute, AND NO VISIBLE LEAKS).	5000	PSIG
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system (85% of 15.5# J-55 casing burst)	4,090	PSIG
NITROGEN POP-OFF SETTING: the valve is to be tested prior to pumping, and must pop within 500 psi of set pressure.	4,000	PSIG
TRUCK KILL SETTING	4,000	PSIG

MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	3,500	PSIG
MAXIMUM ANTICIPATED TREATING PRESSURE: Based on frac design	3,500	PSIG

- 48. Obtain ISIP. Continue monitoring and recording for 20 minutes following shut-in (every 5 minutes).
- 49. RD-MO Halliburton stimulation equipment.
- 50. Shut-in well overnight to allow Resin to cure (or as directed by stimulation company representative).
- 51. Open well and begin flowing /unloading the well. Flow well until it loads up / dies. POOH with work string.
- 52. TIH with bit for 5½" 17# casing. Drill out composite plug @ 5400'±. Continue TIH and drill out composite plug at 5800'±. Clean out to CIBP at 6700'±. Do not drill our CIBP. Circulate hole clean and spot biocide treatment per Champion's instructions. POOH laying down work string.
- 53. Change out BOP rams for 23/8" production tubing. Test BOP according to the ConocoPhillips Well Control Manual.
- 54. PU-RIH w/ 23/8" production tubing and land EOT @ 6500'±.
- 55. ND BOPE and NU WH according to standard ConocoPhillips policy (well falls under Category 1 blanket exception).
- 56. PU-RIH w/ pump and rod string as per Rodstar design (see in Wellview).
- 57. Long stroke to confirm good pump action. Hang well off.
- 58. RDMO WSU and ancillary equipment.
- 59. Clean- up location, remove trash, dispose of produced fluids, and release any remaining ancillary equipment.
- 60. Record all well work performed in WellView.
- 61. Contact Production Specialist before turning well over to operations. Place on production, report production rates.

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