

FORM
2

Rev
12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER _____
SINGLE ZONE ☒ MULTIPLE ZONE ☐ COMMINGLE ZONE ☐

Refilling ☐
Sidetrack ☐

Document Number:

400087054

Plugging Bond Surety

20080134

3. Name of Operator: PINE RIDGE OIL & GAS LLC 4. COGCC Operator Number: 10276

5. Address: 600 17TH ST STE 800S
City: DENVER State: CO Zip: 80202

6. Contact Name: MOE FELMAN Phone: (303)585-1309 Fax: (303)226-1301
Email: moe.felman@cometridgeresources.com

7. Well Name: MACKINAW Well Number: 21-28

8. Unit Name (if appl): _____ Unit Number: _____

9. Proposed Total Measured Depth: 4500

WELL LOCATION INFORMATION

10. QtrQtr: NENW Sec: 28 Twp: 19S Rng: 69W Meridian: 6
Latitude: 38.371919 Longitude: -105.117878

Footage at Surface: 802 FNL/FSL FNL 2253 FEL/FWL FWL

11. Field Name: FLORENCE-CANON CITY Field Number: 24600

12. Ground Elevation: 5293 13. County: FREMONT

14. GPS Data:

Date of Measurement: 08/10/2010 PDOP Reading: 3.8 Instrument Operator's Name: CHRIS PEARSON

15. If well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL 2568 FNL 1413 FEL/FWL FWL Bottom Hole: FNL/FSL 2568 FNL 1413 FEL/FWL FWL
Sec: 28 Twp: 19 Rng: 69 Sec: 28 Twp: 19 Rng: 69

16. Is location in a high density area? (Rule 603b)? ☒ Yes ☐ No

17. Distance to the nearest building, public road, above ground utility or railroad: 160 ft

18. Distance to nearest property line: 180 ft 19. Distance to nearest well permitted/completed in the same formation: 588 ft

20. LEASE, SPACING AND POOLING INFORMATION

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
PIERRE	PRRE			

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: _____

22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

23. Is the Surface Owner also the Mineral Owner? ☐ Yes ☒ No Surface Surety ID#: 20080135

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease? ☐ Yes ☐ No

23b. If 23 is No ☐ Surface Owners Agreement Attached or ☒ \$25,000 Blanket Surface Bond ☐ \$2,000 Surface Bond ☐ \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):
 Township 19 South, Range 69 West, 6th P.M. Section 20: NENW, NE, S2SE, NWSE; Section 28: N2 except a 0.9 acre tract in the SENW and except a 6.8 acre tract in the SWNE; Section 29: NESW, S2SW; Township 20 South, Range 69 West, 6th P.M. Section 3: N2, SE, S2SW, NWSW; Section 4: S2NE, SESW, E2SE, SWSE; Section 9: E2; Section 10: NW, S2SW, SE; Section 15: N2NW, SENW, N2NE, SWNE

25. Distance to Nearest Mineral Lease Line: 815 ft 26. Total Acres in Lease: 2584

DRILLING PLANS AND PROCEDURES

27. Is H2S anticipated? ☐ Yes ☒ No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling? ☐ Yes ☒ No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling? ☐ Yes ☒ No

30. If questions 27 or 28 are yes, is this location in a sensitive area (Rule 903)? ☐ Yes ☒ No If 28, 29, or 30 are "Yes" a pit permit may be required.

31. Mud disposal: ☐ Offsite ☒ Onsite

Method: ☐ Land Farming ☐ Land Spreading ☐ Disposal Facility Other: Evaporation and burial

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
CONDUCTOR	24	16	1/4" WT	50	70	50	0
SURF	12+1/4	9+5/8	24	610	180	610	0
1ST	8+3/4	7	23	3,495	30	3,495	3,345
1ST LINER	6+1/4	4+1/2	11.6	4,500			

32. BOP Equipment Type: ☐ Annular Preventer ☒ Double Ram ☒ Rotating Head ☐ None

33. Comments FLORENCE FIELD EXCEPTION.

34. Location ID: _____

35. Is this application in a Comprehensive Drilling Plan ? ☐ Yes ☒ No

36. Is this application part of submitted Oil and Gas Location Assessment ? ☒ Yes ☐ No

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Moe Felman

Title: Sr. Operations Engineer Date: 8/24/2010 Email: moe.felman@cometridgeresour

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: David S. Neslin Director of COGCC Date: 9/29/2010

API NUMBER

05 043 06199 00

Permit Number: _____ Expiration Date: 9/28/2012

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

- 1) Provide 48 hour notice of MIRU to Mike Leonard at 719-647-9715 or e-mail at mike.leonard@state.co.us.
- 2) Comply with Rule 321. Run and submit directional survey from TD to surface. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.
- 3) If well is a dry hole, set 50 sks cement at surface casing shoe, 15 sks cement in top of surface casing, cut off casing 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole.

Attachment Check List

Att Doc Num	Name	Doc Description
2511340	SURFACE CASING CHECK	LF@2545983 2511340
400087054	FORM 2 SUBMITTED	LF@2530009 400087054
400087246	LEASE MAP	LF@2530010 400087246
400087252	LEGAL/LEASE DESCRIPTION	LF@2530011 400087252
400087266	TOPO MAP	LF@2530012 400087266
400087372	PLAT	LF@2530013 400087372
400087376	DEVIATED DRILLING PLAN	LF@2530014 400087376

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	PERMITTING PASSED	9/29/2010 8:40:53 AM
Permit	Called Operator to confirm Bonding on; confirmation received; add Surface Surety Id#; the well is 160' from a road confirmed that the rig height will not be greater than 2/3rds of 160', 107'. . Add comment to Section V 33. FLORENCE FIELD EXCEPTION.	9/29/2010 8:12:39 AM

Total: 2 comment(s)

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