

FORM
2
Rev
08/13

State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:
400514640

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter Recomplete and Operate

Date Received:
12/09/2013

TYPE OF WELL OIL GAS COALBED OTHER Horizontal
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Refiling
Sidetrack

Well Name: Bulldog Well Number: 30-21H-891
Name of Operator: AXIA ENERGY LLC COGCC Operator Number: 10335
Address: 1430 LARIMER STREET #400
City: DENVER State: CO Zip: 80202
Contact Name: Lisa Smith Phone: (303)857-9999 Fax: (303)450-9200
Email: lisa@permitco-usa.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20100083

WELL LOCATION INFORMATION

QtrQtr: NENW Sec: 30 Twp: 8N Rng: 91W Meridian: 6
Latitude: 40.626675 Longitude: -107.648031

Footage at Surface: FNL/FSL FEL/FWL
1246 feet FNL 2853 feet FWL

Field Name: WILDCAT Field Number: 99999

Ground Elevation: 7042 County: MOFFAT

GPS Data:
Date of Measurement: 01/04/2013 PDOP Reading: 1.5 Instrument Operator's Name: Glen McElroy

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

Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL
2606 FNL 1975 FWL 625 FSL 1980 FWL
Sec: 30 Twp: 8N Rng: 91W Sec: 31 Twp: 8N Rng: 91W

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: Fee State Federal Indian

The Surface Owner is: is the mineral owner beneath the location.
(check all that apply) is committed to an Oil and Gas Lease.
 has signed the Oil and Gas Lease.
 is the applicant.

The Mineral Owner beneath this Oil and Gas Location is: Fee State Federal Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes

The right to construct the Oil and Gas Location is granted by: oil and gas lease

Surface damage assurance if no agreement is in place: Surface Surety ID: 20100083

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

T8N-R91W
Sec. 17: E/2 SW/4, W/2 SE/4;
Sec. 20: NE/4, E/2 SE/4;
Sec. 28: N/2 NW/4, SW NW, NW NE;
Sec. 29: E/2 NE/4, SE NW, E/2 SW/4, SE/4, SW NE, W/2 W/2;
Sec. 30: Lots 7, 8, 9, NE SW, SE NW, W/2 E/2, E/2 NE/4, NE SE;
Sec. 31: Lots 5, 6, 7

Total Acres in Described Lease: 1732 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5049 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 5280 Feet
Above Ground Utility: 4442 Feet
Railroad: 5280 Feet
Property Line: 1246 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 1528 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 625 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

Approved under Spacing Order No. 1309-SP-1977/Pooling Order No. 1309-UP-191

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	1309-SP-11	25845	Sec. 29,30,31,32

DRILLING PROGRAM

Proposed Total Measured Depth: 20070 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 1528 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type: Annular Preventor Double Ram Rotating Head None

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: _____ Cuttings Disposal Method: Other

Other Disposal Description:

Water based cuttings to be tested to Table 910 standards, mixed/treated as necessary and buried to spread at location. Oil based cuttings to be hauled to commercial disposal facility.

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	20	16	75#	0	60	60	60	0
SURF	13+1/2	10+3/4	40.5#	0	1500	410	1500	0
1ST	9+7/8	7+5/8	26.4#	0	12100	810	12100	5500
1ST LINER	6+3/4	5+1/2	20#	0	12000	80	12000	10100
2ND LINER	6+3/4	4+1/2	13.5#	12000	20070	560	20070	12000

Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

OTHER LOCATION EXCEPTIONS

Check all that apply:

- Rule 318.c. Exception Location from Rule or Spacing Order Number _____
- Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments Liner is tapered 5-1/2" to 4-1/2"

Related to Form 2A - #400518886 submitted 12-9-13
Related to Form 2 - Pilot Hole (Directional) #400514915
Related to Form 2 - Pilot Hole - Bulldog 30-31H-891 - Doc. No. 400514984
Related to Form 2 - Horizontal - Bulldog 30-31H-891 - Doc. No. 400514946
This form would not allow input of the above information.

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: _____

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

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

Signed: _____ Print Name: Lisa Smith

Title: Agent for Axia Energy LLC Date: 12/9/2013 Email: lisa@permitco-usa.com

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: _____ Director of COGCC Date: _____

Expiration Date: _____

API NUMBER

05

Conditions Of Approval

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.

COA Type

Description

<u>COA Type</u>	<u>Description</u>

Best Management Practices

No BMP/COA Type

Description

<u>No BMP/COA Type</u>	<u>Description</u>

Attachment Check List

Att Doc Num	Name
400514640	FORM 2 SUBMITTED
400518790	CONSULT NOTICE
400518791	UNIT CONFIGURATION MAP
400518792	MINERAL LEASE MAP
400518793	LEGAL/LEASE DESCRIPTION
400518794	SURFACE AGRMT/SURETY
400518795	DIRECTIONAL DATA
400518796	DEVIATED DRILLING PLAN
400523978	MULTI-WELL PLAN
400527823	OffsetWellEvaluations Data
400527827	WELL LOCATION PLAT

Total Attach: 11 Files

General Comments

User Group	Comment	Comment Date
Permit	Returned to draft for the following: 1. QtrQtr should be NWNE on Well Location tab. 2. Offset Wells Evaluation tab incomplete. 3. Missing well plat attachement.	12/10/2013 1:36:41 PM

Total: 1 comment(s)