

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:

400562088

## APPLICATION FOR PERMIT TO:

☒ Drill
 ☐ Deepen
 ☐ Re-enter
 ☐ Recomplete and Operate

Date Received:

02/27/2014

TYPE OF WELL OIL ☐ GAS ☐ COALBED ☒ OTHER Lateral 1Refilling ☒ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐Sidetrack ☒Well Name: Melson 34-7-24Well Number: #1Name of Operator: SAMSON RESOURCES COMPANYCOGCC Operator Number: 76104Address: TWO WEST SECOND STCity: TULSA State: OK Zip: 74103Contact Name: Judi KohnPhone: (303)222.0964Fax: ( )Email: jkohn@samson.com

## RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: \_\_\_\_\_

## WELL LOCATION INFORMATION

QtrQtr: SWNW Sec: 19 Twp: 34N Rng: 6W Meridian: MLatitude: 37.178740Longitude: -107.549100
 Footage at Surface: 1866 feet FNL 383 feet FNL FWL
Field Name: IGNACIO BLANCOField Number: 38300Ground Elevation: 6849County: LA PLATA

GPS Data:

Date of Measurement: 07/20/2011 PDOP Reading: 0.0 Instrument Operator's Name: Richard B. GabrielIf well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**
 Footage at Top of Prod Zone: 848 FNL 684 FEL 660 FNL 1600 FWL  
 Sec: 24 Twp: 34N Rng: 7W Sec: 24 Twp: 34N Rng: 7W

## LOCATION SURFACE &amp; MINERALS &amp; 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 ☒ IndianThe Minerals beneath this Oil and Gas Location will be developed by this Well: NoThe right to construct the Oil and Gas Location is granted by: applicant is owner

Surface damage assurance if no agreement is in place: \_\_\_\_\_

Surface Surety ID: \_\_\_\_\_

## 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.)

SHL: FEE, will not be produced by well  
BHL and Top of Prod Zone: BIA 750-03-2003, N2NE4 & NW4 Section 24-T34N-R7W  
Passes through, but not produced: BIA 750-03-2002

(See also attached mineral lease map)

Total Acres in Described Lease: 240 Described Mineral Lease is: ☐ Fee ☐ State ☐ Federal ☒ Indian

Federal or State Lease # 750-03-2003

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 660 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 450 Feet  
Building Unit: 450 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 360 Feet  
Above Ground Utility: 360 Feet  
Railroad: 5280 Feet  
Property Line: 80 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: 550 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 660 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
FRUITLAND COAL	FRLDC	112-181	320	N/2

## DRILLING PROGRAM

Proposed Total Measured Depth: 6232 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 550 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? Yes

Will oil based drilling fluids be used? No

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 608

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Other

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Other

Other Disposal Description:

approved 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
SURF	12+1/4	8+5/8	24	0	350	250	350	0
1ST	7+7/8	5+1/2	17	350	3564	258	3564	0
1ST LINER	4+3/4	2+7/8	6.4	3197	6232			

☒ 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 Please see attached previously approved exception location request letter and waivers from surface owners. Army Corp Permit also attached.

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: \_\_\_\_\_

Is this application being submitted with an Oil and Gas Location Assessment application? \_\_\_\_\_ No

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

Signed: \_\_\_\_\_ Print Name: Annaliese Kosmicki

Title: Land Technician Date: 2/27/2014 Email: akosmicki@samson.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 4/8/2014

Expiration Date: 04/07/2016

### API NUMBER

05 067 09884 01

### **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**

	<p>1) Provide 48 hour notice via form 42</p> <p>2) Run and submit Directional Survey for primary well bore and for each lateral section</p> <p>3) The operator shall comply with Rule 321, and it shall be the operator's responsibility to ensure that the well bore complies with setback requirements in Commission orders and/or rules prior to producing the well.</p> <p>4) Sample and test two closest water wells within 1/4 mile swath of lateral wellbore Fruitland Coal (horizontal dimension – top to bottom of pay).</p> <p>5) Operators are required to obtain a bottom hole pressure utilizing a bottom hole gauge after a minimum 48 hour shut-in period following completion and prior to sales</p> <p>6) Comply with all applicable provisions of Order 112-181</p> <p>7) Borehole problems while drilling that require an additional sidetrack: Contact &amp; discuss w/ COGCC Regional Engineer – Mark Weems within 24 hours of occurrence</p> <p>970-259-4587 off 970-749-0624 cell mark.weems@state.co.us</p>
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### **Best Management Practices**

#### **No BMP/COA Type**

#### **Description**

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### **Attachment Check List**

#### **Att Doc Num**

#### **Name**

400562088	FORM 2 SUBMITTED
400562237	DIRECTIONAL DATA
400562239	WELL LOCATION PLAT
400562240	WELL LOCATION PLAT
400562242	DEVIATED DRILLING PLAN
400562243	OIL & GAS LEASE
400562244	MINERAL LEASE MAP
400562245	WAIVERS
400562246	WAIVERS
400562247	EXCEPTION LOC REQUEST
400562248	OTHER

Total Attach: 11 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Open hole resistivity and gamma logs shall be run to describe the stratigraphy of the entire well bore and to adequately verify the setting depth of surface casing and aquifer coverage. On a multi-well pad, these open hole logs are only required on one of the first wells drilled on the pad and the Drilling Completion Report - Form 5 for every well on the pad shall identify which well was logged.	3/31/2014 3:10:34 PM
Permit	Final review completed; no LGD or public comment received.	3/31/2014 3:10:15 PM
Permit	Waiting on BMPS to address mitigation. Operator sent an email listing a few BMP's which were posted in the BMP tab.	3/31/2014 1:04:19 PM
Permit	This permit is the lateral of a pilot/lateral drilling plan. Three horizontal laterals will be drilled from the pilot. This permit is the first lateral and should have a sidetrack (01) designation in the API number. API number filled in.	3/31/2014 9:18:24 AM
Permit	Operator revised the lease description and confirmed the use of salt mud.	3/4/2014 2:00:54 PM
Permit	Will salt based mud be used on the laterals?	3/4/2014 1:15:33 PM
Permit	Operator is requesting a property line exception. Waivers attached.	3/4/2014 1:04:26 PM
Permit	An exception is requested per rule 604.b.(1).a. The Director may grant this exception if mitigation measures minimize the impacts of noise, odors, light, dust and similar issues.	3/4/2014 12:50:08 PM
Permit	The lease description says N/2SE4. It should possibly be N/2NE4.	3/4/2014 12:44:54 PM
Permit	This form has passed completeness.	2/28/2014 10:17:22 AM

Total: 10 comment(s)