



FORM
15
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax: (303)894-2109



RECEIVED

NOV 10 2010
FOR OGCC USE ONLY
COGCC

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

FORM SUBMITTED FOR:

☐ Pit Report

☒ Pit Permit

OGCC Operator Number: 10150

Name of Operator: Black Hills Plateau Production

Address: 1515 Wynkoop St., Suite 500

City: Denver State: CO Zip: 80202

Contact Name and Telephone:

Jessica Donahue

No: 720-210-1333

Fax: 303-566-3344

Complete the
Attachment Checklist

Oper OGCC

Detailed Site Plan	✓	
Topo Map w/ Pit Location	✓	
Water Analysis (Form 25)	✓	
Source Wells (Form 26)		
Pit Design/Plan (Form 28)	✓	
Design Calculations	✓	
Sensitive Area Determ.		
Mud Program		
Form 2A	✓	

API Number (of associated well): 05-077-09403

OGCC Facility ID (of other associated facility): Location # 312741

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW Sect. 35, T9S R97W, 6th PM

eForm Doc # 400100493

Latitude: 39.22639

Longitude: -108.19167

County: Mesa (077)

Pit Use: ☐ Production ☒ Drilling (Attach mud program) ☒ Special Purpose (Describe Use): Hold freshwater for frac and flowback water

Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ No

Offsite disposal of pit contents: ☒ Injection ☒ Commercial Pit/Facility Name: Hancock Gulch #1 Pit/Facility No: 159293 (HG #1)

Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results. OR will be trucked to Danish Plate in Cisco, UT

Existing Site Conditions

Is the location in a "Sensitive Area?" ☒ Yes ☐ No Attach data used for determination.

Distance (in feet) to nearest surface water: 290' ground water: 3,914' water wells: 600'

LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:

Crop Land: ☐ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe):

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units from USNRCS survey: Sheet No: Soil Complex/Series No: 3

Soils Series Name: Barx Loam Horizon thickness (in inches): A: ; B: ; C:

Soils Series Name: Horizon thickness (in inches): A: ; B: ; C:

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 210' Width: 85' Depth: 20'

Calculated pit volume (bbls): 29,540 Daily inflow rate (bbls/day): 1,800 bbls/day during flowback

Daily disposal rates (attach calculations): Evaporation: 25 bbls/day Percolation: bbls/day

Type of liner material: PVC Thickness: 24 mm

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): Produced water will be stored in a tank

Is pit fenced? ☒ Yes ☐ No Is pit netted? ☒ Yes ☐ No Pit to be netted 30-90 days after completion

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

Print Name: Jessica Donahue

Signed: J. Donahue

Title: Regulatory Technician

Date: 10/20/10

OGCC Approved: David Kulyko

Title: Oil and Gas Location Assessment Specialist Western Colorado

Date: 11-19-10

CONDITIONS OF APPROVAL, IF ANY:

See Attached

FACILITY NUMBER:

Scan No 2033508

Form 15 Pit Permit

2A#400100493

Black Hills Plateau Production, Federal 35-2, SWSW Sec 35 T9S R97W, Mesa County, Form 15 Pit Permit Conditions of Approval, Associated Form 2A#400100493; Approved 11-19-2010

Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of the nearby surface water.

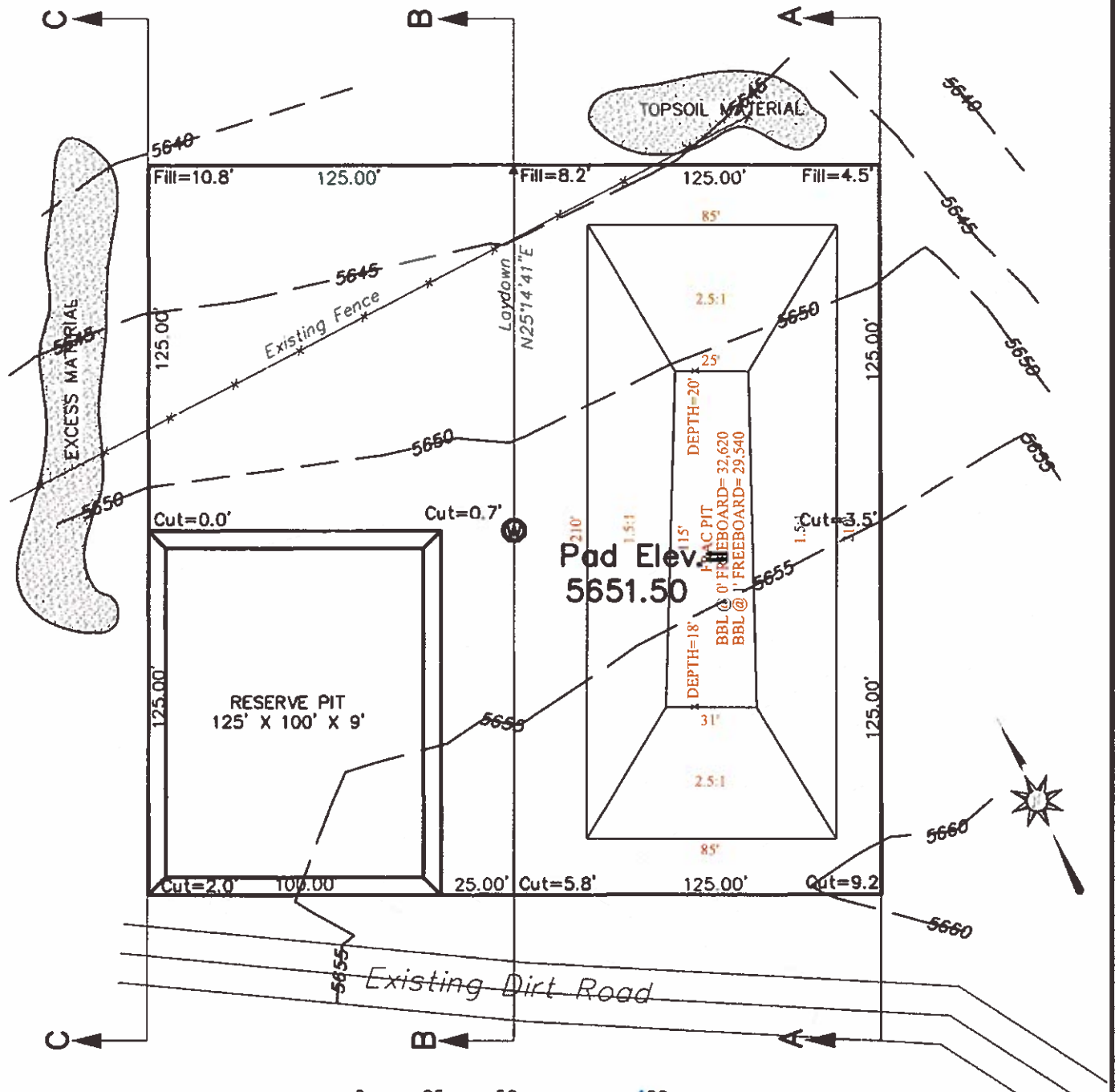
No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

Operator must submit a professional engineer (PE) approved/stamped as-built drawing (plan view and cross-sections) of the completion/flowback pit within 14 calendar days of construction.

If the completion/flowback pit is not closed (either drained and/or backfilled) immediately after well completion, then operator must appropriately fence and net the completion/flowback pit, in a timely manner, and maintain the fencing and netting until pit is closed.

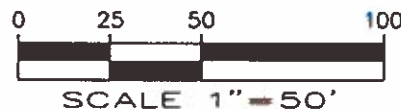
Operator must implement best management practices to contain any unintentional release of fluids, including any fluids are conveyed via temporary surface pipelines.

SECTION 35, T9S, R97W, 6th PM



ESTIMATED VOLUMES

Ungraded Elevation: 5652.22	
Finished Elevation: 5651.50	
PAD CUT:	3981 CY.
PAD FILL:	5035 CY.
PIT CUT:	3968 CY.
2' FREE BOARD ON RESERVE PIT	



BEFORE DIGGING CALL FOR UTILITY LINE LOCATION

NOTE: The dirt quantities on this drawing are estimated and the use of is at the responsibility of the user.

HIGH DESERT SURVEYING, LLC

2591 B 3/4 ROAD
GRAND JUNCTION, CO. 81503
TELE: (970) 254-8649, FAX: (970) 255-7047

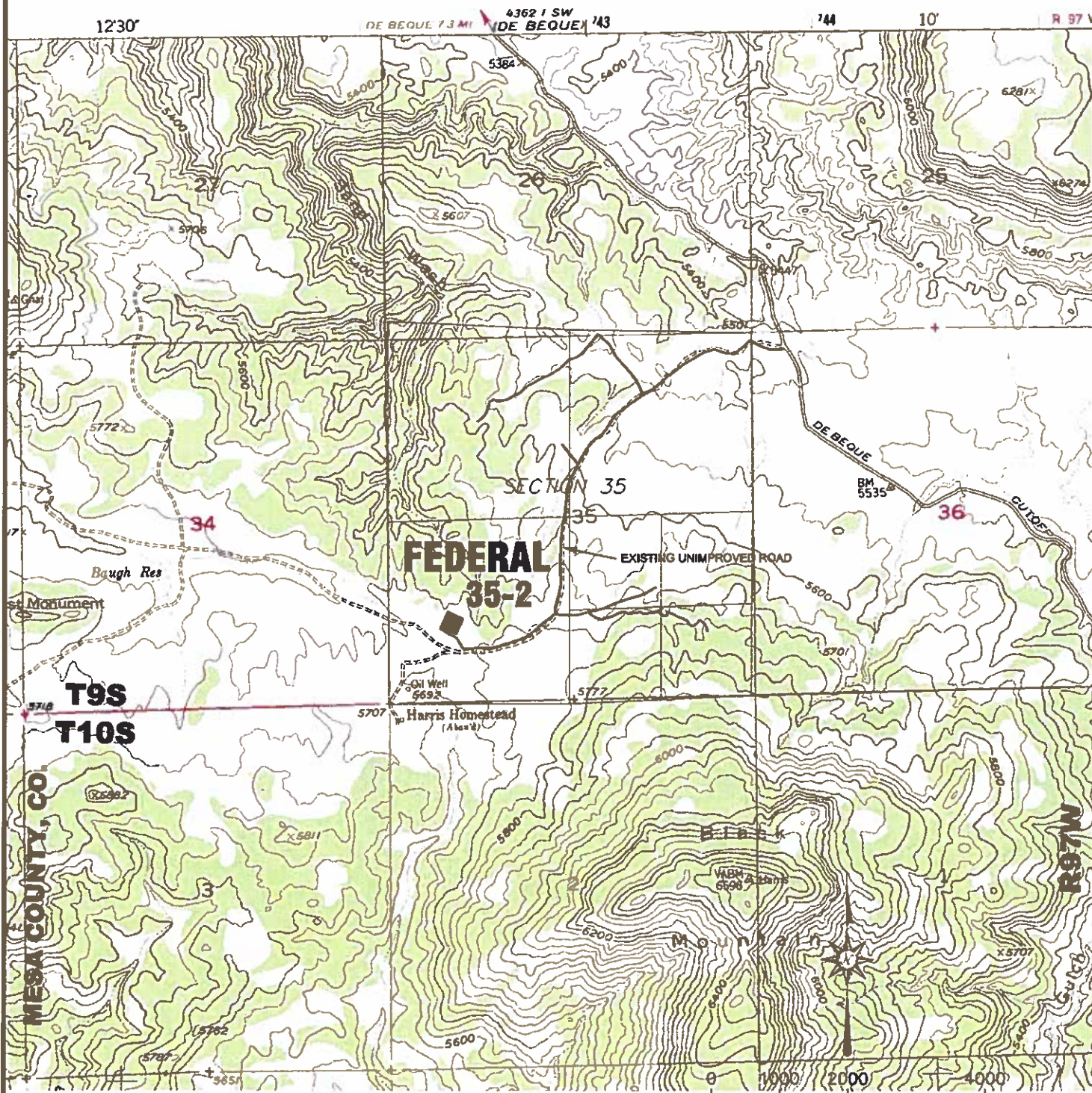


Pad & Pit Layout – Plat 2
FEDERAL 35-2

BLACK HILLS PLATEAU PRODUCTION

SURVEY BY: JT,CF	Survey Date: 3-31-06	Job No. 06-42
DRAWN BY: rsk	Draft Date: 04-03-06	PLAT 2

SECTION 35, T9S, R97W, 6th PM



Well Pad Surface Ownership: Donald L. Thompson
 Proposed Access Road Approximate Length: 0' ±
 Quadrangles Used: 1:24,000 - Mesa & De Beque, Colorado

SCALE 1" = 2000'

HIGH DESERT SURVEYING, LLC

2591 B ¾ ROAD
 GRAND JUNCTION, CO. 81503

TELE: (970) 254-8649 FAX: (970) 255-7047

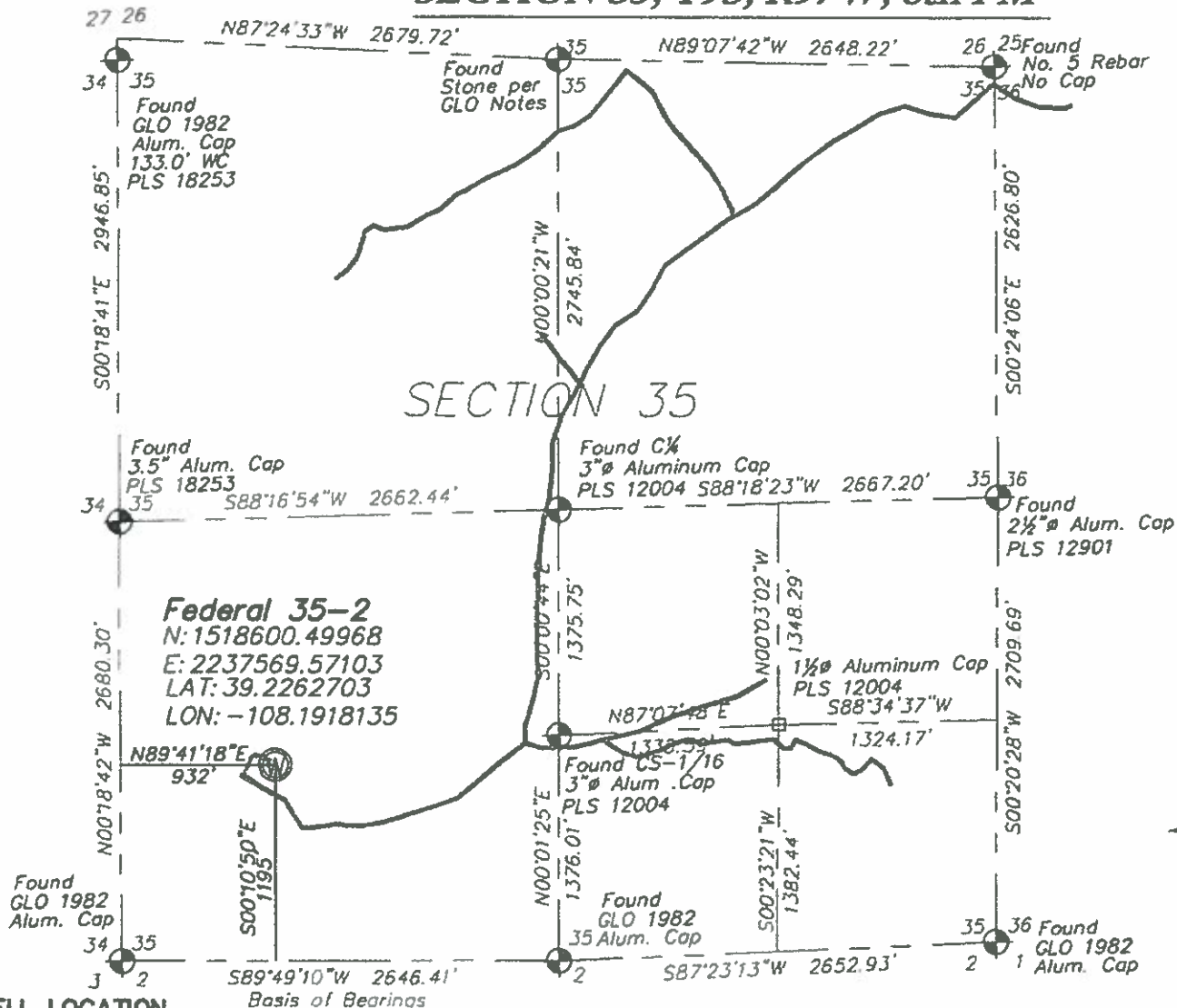


Topography & Access - Plat 5
FEDERAL 35-2

BLACK HILLS PLATEAU PRODUCTION

SURVEY BY: JT,CF	Survey Date: 3-31-06	Job No. 06-42
DRAWN BY: rsk	Draft Date: 04-03-06	PLAT 5

SECTION 35, T9S, R97W, 6th PM

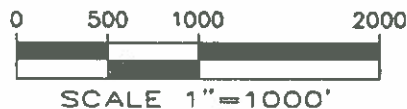


WELL LOCATION

1. This Well Location Plat was prepared for Black Hills Plateau Production to show the location Federal 35-2, located 1195 feet North and 932 feet East of the Southwest corner of Section 35, T9S, R97W, 6th PM, Mesa County, Colorado, based on the location of the South Quarter corner, the Southwest corner, and the West Quarter corner of said Section 35.
2. Latitude and Longitude are based on NAD 83.
3. Elevations are based on NAVD 88
4. Well ties are measured at 90° from the referenced Section Line.
5. Improvements: Access road at 150± feet, fence at 86± feet from well head.
6. Surface Use: Natural ground.
7. PDOP#: 1.762
8. Existing Ground Elevation at Wellhead 5652.22

LEGEND

- = SECTION CORNERS LOCATED
- ⊙ = PROPOSED WELL HEAD



SURVEYOR'S STATEMENT

I, Jeffrey C. Fletcher, a Professional Land Surveyor in the State of Colorado do hereby certify that this survey was made under my direct supervision and that this plat represents said Survey.

Jeffrey C. Fletcher
Jeffrey C. Fletcher Colorado PLS 24953 6-19-07

HIGH DESERT SURVEYING, LLC

1673 Highway 50 Unit C
Grand Junction, Co. 81503
Tele: (970) 254-8649 Fax: (970) 241-0451



Well Plat - Plat 1 FEDERAL 35-2

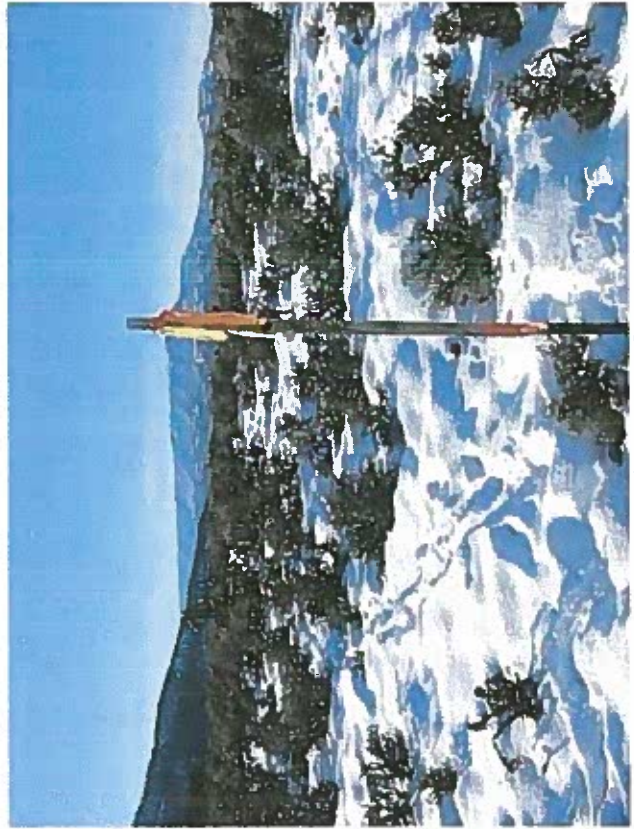
BLACK HILLS PLATEAU PRODUCTION

SURVEY BY: JT,CF	Survey Date: 3-31-06	Job No. 06-42
DRAWN BY: rsk	Draft Date: 06-18-07	PLAT 1

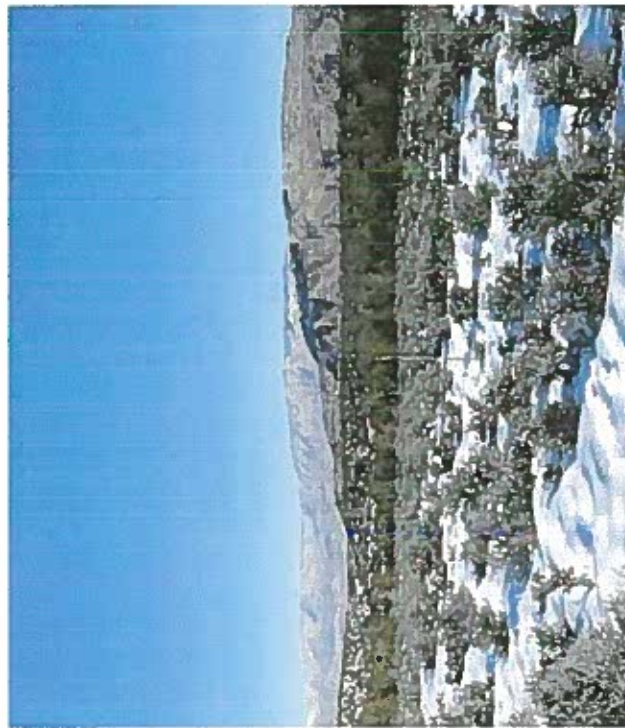
SECTION 35, T9S, R97W, 6th PM



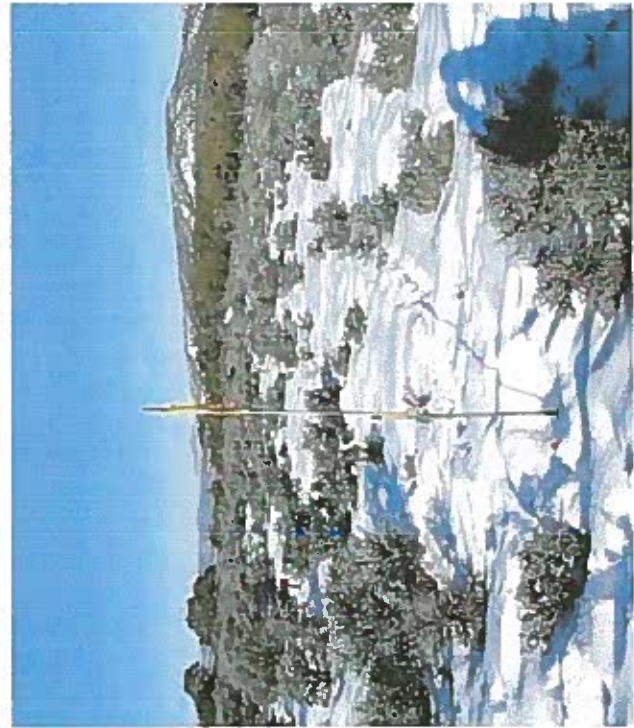
Federal 35-2, Looking East



Federal 35-2, Looking West



Federal 35-2, Looking North



Federal 35-2, Looking South

HIGH DESERT SURVEYING, LLC

1673 Highway 50 Unit C
Grand Junction, Co. 81503
Tele: (970) 254-8649 Fax: (970) 241-0451



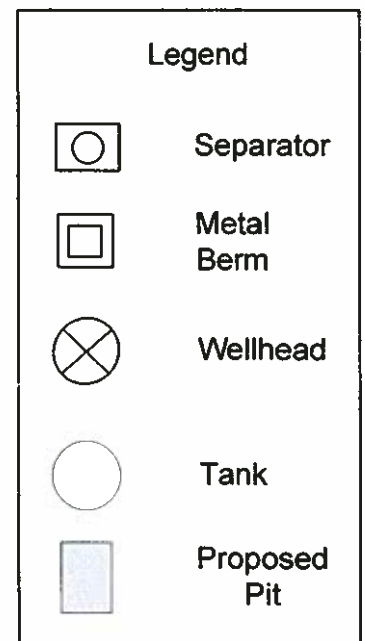
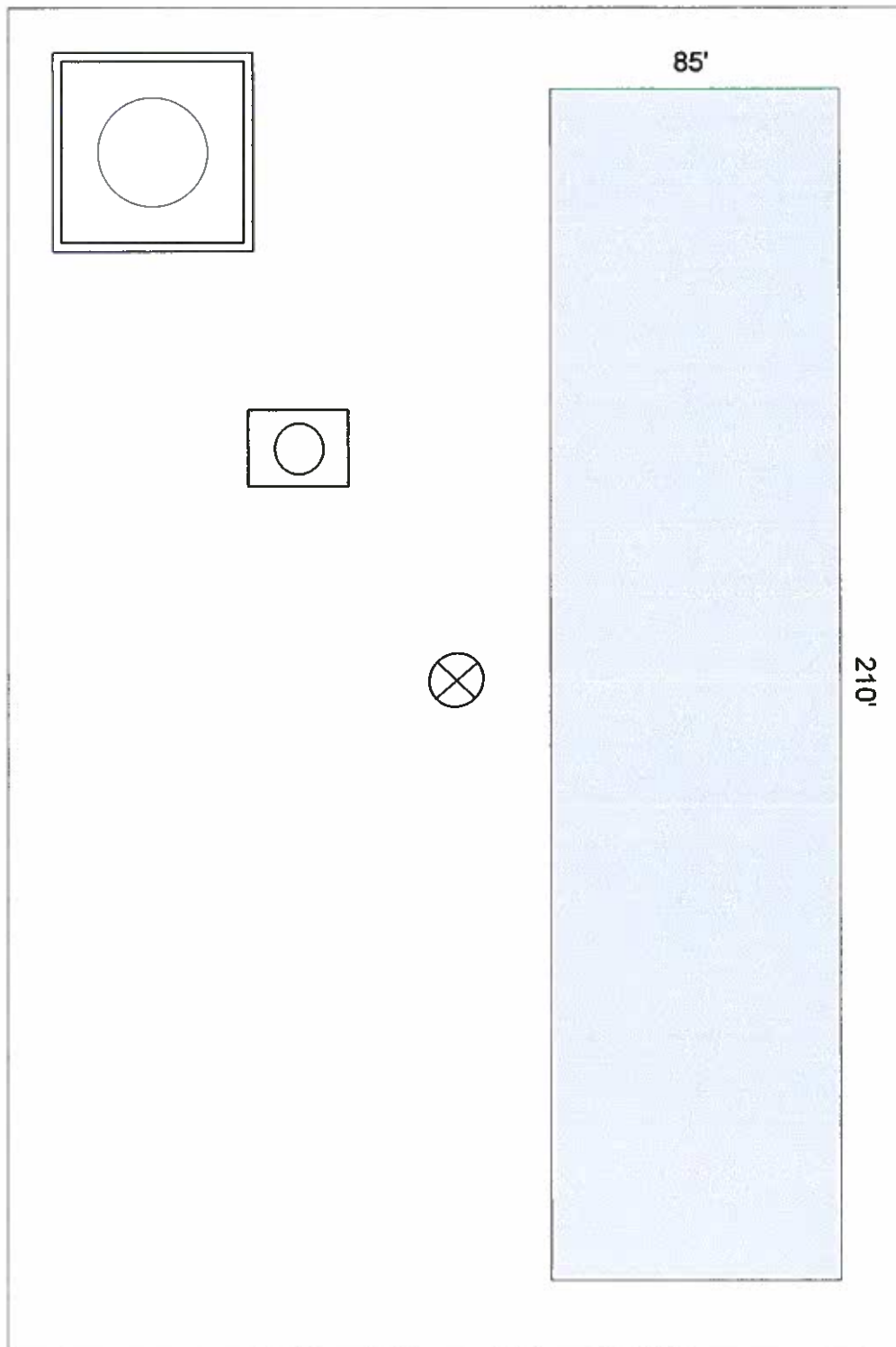
Drill Location Pictures - Plat 7

FEDERAL 35-2

BLACK HILLS PLATEAU PRODUCTION

SURVEY BY: JT,CF	Survey Date: 3-31-06	Job No. 06-42
DRAWN BY: rsk	Draft Date: 06-18-07	PLAT 7

Federal 35-2
API # 05-077-09403
SWSW Sect. 35 T9S R97W 6th PM
Proposed Frac Pit Layout



Not to Scale

Pit volume is 32,620 bbl
with no freeboard.

05-09-97-35

To: Black Hills Plateau Production
2388 Leland
Grand Junction, CO 81505

Date: April 9, 2008
No: ECA/BHP 08-01

SAMPLE IDENTIFICATION

Submitted by: Stan

Date Sampled: Mar. 14, 2008

Sample I.D.: Water, Shire Gulch Fed 35-2

Date Received: March 20, 2008

Comments: Kept 4C till tested

Date Tested: March 20-April 4, 2008

RESULTS

Parameter	Result
pH	5.869
Conductivity	37,789 umhos/cm
Resistivity	0.264 ohms/m
Specific Gravity 60/60 F	1.0085
TDS	26,520 mg/L
TSS	1,210 mg/L
Chloride	14,607 mg/L
Bicarbonate	72.24 mg/L
Carbonate	0.00 mg/L
Sulfates	20.58 mg/L
Calcium	1,950 mg/L
Magnesium	160.0 mg/L
Sodium	9,030 mg/L
Potassium	117.0 mg/L
Iron	143.2 mg/L

Results submitted by
Enviro-Chem Analytical, Inc.

Liese K. Thompson

Liese K. Thompson

Lab Director

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



DE	ET	OE	ES
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Document Number:

400072109

Plugging Bond Surety

20060007

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 ☐

Refiling ☐Sidetrack ☐3. Name of Operator: BLACK HILLS PLATEAU PRODUCTION LLC4. COGCC Operator Number: 101505. Address: 1515 WYNKOOP ST STE 500City: DENVER State: CO Zip: 802026. Contact Name: Jessica Donahue Phone: (720)210-1333 Fax: (303)566-3344Email: Jessica.Donahue@blackhillscorp.com7. Well Name: Federal Well Number: 35-2

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

9. Proposed Total Measured Depth: 7589

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 35 Twp: 9s Rng: 97w Meridian: 6Latitude: 39.226270Longitude: -108.191813

Footage at Surface: 1195 FNL/FSL FSL 932 FEL/FWL FWL

11. Field Name: Shire Gulch Field Number: 7745012. Ground Elevation: 5652 13. County: MESA

14. GPS Data:

Date of Measurement: 03/31/2006 PDOP Reading: 1.7 Instrument Operator's Name: Jeffrey Fletcher15. 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 _____

Sec: _____ Twp: _____ Rng: _____ Sec: _____ Twp: _____ Rng: _____

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No17. Distance to the nearest building, public road, above ground utility or railroad: 1503 ft18. Distance to nearest property line: 183 ft 19. Distance to nearest well permitted/completed in the same formation: 2600 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.)
Frontier	FRTR			
Mancos	MNCS			
Mowry	MWRY			
Niobrara	NBRR			

21. Mineral Ownership: ☐ Fee ☐ State ☒ Federal ☐ Indian Lease #: COC22503

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

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

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 Bon ☐ \$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):
T9S R97W Sect. 35 ALL

25. Distance to Nearest Mineral Lease Line: 932 ft 26. Total Acres in Lease: 640

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: _____

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				40		40	0
SURF	12+1/4	9+5/8	36#	2,604	293	2,604	1,995
1ST	7+7/8	5+1/2	17#	7,589	830	7,589	2,050
S.C. 1.1	12+1/4	9+5/8	36	1,995	529	1,995	0

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

33. Comments NO CONDUCTOR WILL BE SET. * SEE INTERNAL

34. Location ID: 312741

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: Jessica Donahue

Title: Regulatory Technician Date: 7/6/2010 Email: Jessica.Donahue@blackhillscor

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. Nesline Director of COGCC Date: 8/26/2010

API NUMBER 05 077 09403 00	Permit Number: _____	Expiration Date: <u>8/25/2012</u>
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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) COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

Attachment Check List

Att Doc Num	Name	Doc Description
400072109	FORM 2 SUBMITTED	LF@2502927 400072109
400074711	SURFACE AGRMT/SURETY	LF@2502928 400074711
400074714	LOCATION PICTURES	LF@2502929 400074714
400074716	TOPO MAP	LF@2502930 400074716
400074717	WELL LOCATION PLAT	LF@2502931 400074717
400074801	OTHER	LF@2502932 400074801

Total Attach: 6 Files

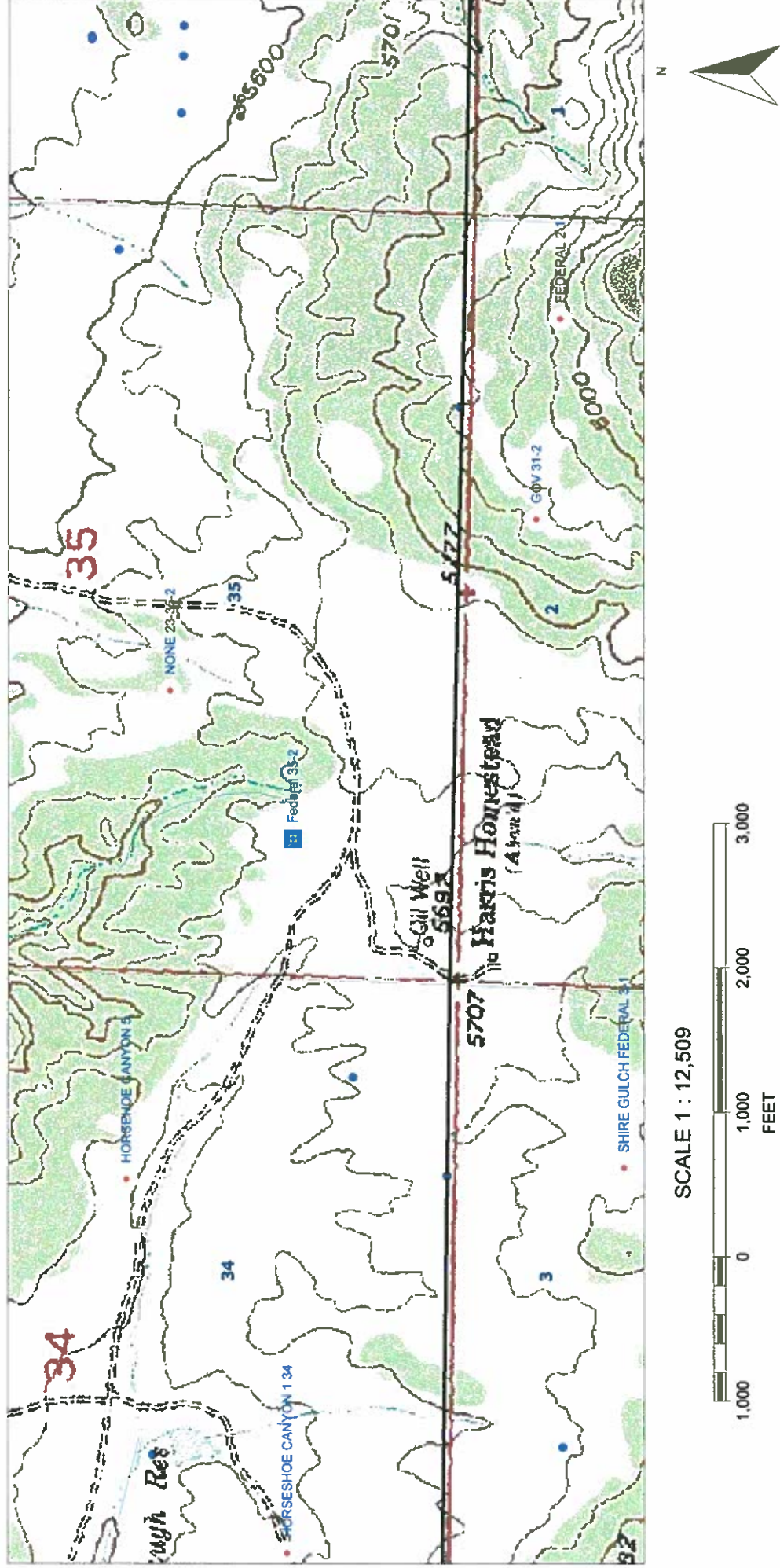
General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Requested & Changed Distance to the nearest building, public road, above ground utility or railroad to 1503' per JD.	8/26/2010 8:36:16 AM
Permit	Requested & Changed Distance to the nearest building, public road, above ground utility or railroad to 1503' per JD.	8/19/2010 1:57:02 PM
Permit	Requesting Rig Height. 8/5/10 plg.	8/5/2010 11:20:50 AM

Total: 3 comment(s)

Error: Subreport could not be shown.

Black Hills Federal 35-2



Black Hills Federal 35-2



FORM
2A
Rev
04/01

State of Colorado
Oil and Gas Conservation Commission

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



DE ET OE ES

Document Number:
400100493

Oil and Gas Location Assessment

☐ New Location ☒ Amend Existing Location Location#: 312741

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a stand alone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this Assessment will allow for the construction of the below specified location; however, it does not supersede any land use rules applied by the local land use authority. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

312741

Expiration Date:

☐ This location assessment is included as part of a permit application.

1. CONSULTATION

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # _____
- ☒ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 10150

Name: BLACK HILLS PLATEAU PRODUCTION LLC

Address: 1515 WYNKOOP ST STE 500

City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Jessica Donahue

Phone: (720) 210-1333

Fax: (303) 566-3344

email: Jessica.Donahue@blackhillscorp.com

4. Location Identification:

Name: Federal Number: 35-2

County: MESA

QuarterQuarter: SWSW Section: 35 Township: 9S Range: 97W Meridian: 6 Ground Elevation: 5652

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1195 feet FSL, from North or South section line, and 932 feet FWL, from East or West section line.

Latitude: 39.226390 Longitude: -108.191670 PDOP Reading: 2.1 Date of Measurement: 04/23/2009

Instrument Operator's Name: Alan Vrooman

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="text" value="0"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="1"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 11/15/2010 Size of disturbed area during construction in acres: 2.06
Estimated date that interim reclamation will begin: 05/01/2011 Size of location after interim reclamation in acres: 0.60
Estimated post-construction ground elevation: 5652 Will a closed loop system be used for drilling fluids: Yes ☒
Will salt sections be encountered during drilling: Yes ☐ No ☒ Is H2S anticipated? Yes ☐ No ☒
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes ☐ No ☒
Mud disposal: Offsite ☐ Onsite ☐ Method: Land Farming ☐ Land Spreading ☐ Disposal Facility ☐
Other: _____

7. Surface Owner:

Name: David Firmin Phone: _____
Address: P.O. Box 2502 Fax: _____
Address: _____ Email: _____
City: Basalt State: CO Zip: 81621-2502 Date of Rule 306 surface owner consultation: _____
Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian
Mineral Owner: ☐ Fee ☐ State ☒ Federal ☐ Indian
The surface owner is: ☐ the mineral owner ☐ committed to an oil and gas lease
☐ is the executer of the oil and gas lease ☐ the applicant
The right to construct the location is granted by: ☐ oil and gas lease ☒ Surface Use Agreement ☐ Right of Way
☐ applicant is owner
Surface damage assurance if no agreement is in place: ☐ \$2000 ☐ \$5000 ☐ Blanket Surety ID _____

8. Reclamation Financial Assurance:

☐ Well Surety ID: _____ ☐ Gas Facility Surety ID: _____ ☐ Waste Mgmt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
Distance, in feet, to nearest building: 1492 , public road: 1503 , above ground utilit: 1503
 , railroad: 16881 , property line: 183

10. Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____
Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

11. Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____
Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

12. Soils:

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 3. Barx loam

NRCS Map Unit Name: _____

NRCS Map Unit Name: _____

13. Plant Community:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☐ No ☒

Plant species from: ☐ NRCS or, ☒ field observation Date of observation: 09/02/2010

List individual species: _____

Check all plant communities that exist in the disturbed area.

- ☒ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
☐ Native Grassland (Bluestern, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
☒ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)
☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
☐ Alpine (above timberline)
☐ Other (describe): _____

14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: ☐ No ☒ Yes Was a Rule 901.e. Sensitive Areas Determination performed: ☒ No ☐ Yes

Distance (in feet) to nearest surface water: 290, water well: 3914, depth to ground water: 600

Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes

Is the location within a Rule 317B Surface Water Supply Area buffer zone:

☒ No ☐ 0-300 ft. zone ☐ 301-500 ft. zone ☐ 501-2640 ft. zone

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: ☐ No ☐ Yes

15. Comments:

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

Signed: _____ Date: 10/14/2010 Email: Jessica.Donahue@blackhillscorp.com

Print Name: Jessica Donahue Title: Regulatory Technician

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: _____

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

If the completion/flowback pit is not closed (either drained and/or backfilled) immediately after well completion, then operator must appropriately fence and net the completion/flowback pit, in a timely manner, and maintain the fencing and netting until pit is closed.

Operator must submit a professional engineer (PE) approved/stamped as-built drawing (plan view and cross-sections) of the completion/flowback pit within 14 calendar days of construction.

Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of the nearby surface water.

A closed loop system must be implemented during drilling. Any other pit constructed that will hold any drilling or completion fluids must be lined.

Operator must implement best management practices to contain any unintentional release of fluids.

If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

Attachment Check List

Att Doc Num	Name
2033482	CORRESPONDENCE
400100493	FORM 2A SUBMITTED
400100527	LOCATION DRAWING

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
DOW	The CDOW affirms that the lease stipulations and conditions of approval originally assigned to this permit by the BLM suffice to address wildlife and habitat concerns. by Michael Warren on Thursday, November 18, 2010 at 2:00 P.M.	11/18/2010 2:00:00 PM
OGLA	Initiated/Completed OGLA Form 2A review on 10-21-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW fluid containment, spill/release BMPs, lined pits/closed loop COAs from operator on 10-21-10; received clarifications and acknowledgement of COAs from operator on 10-26-10; requested acknowledgement and received verbal concurrence of additional no pit in fill, PE stamped as-builts of pit, appropriate fencing and netting of completion/flowback pit COAs from operator on 11-19-10; passed by CDOW on 11-18-10, with operator submitted (with permit application) BMPs and BLM stipulations and COAs acceptable; passed OGLA Form 2A review on 11-19-10 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, no pit in fill, PE stamped as-builts of pit, appropriate fencing and netting of completion/flowback pit COAs.	10/21/2010 11:43:48 AM

Total: 2 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)