

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER


FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Ward Petroleum Corporation		7. If Unit or CA Agreement, Name and No.
3a. Address PO. Box 118 Enid, Oklahoma 73702		8. Lease Name and Well No. WPC Federal 14-5
3b. Phone No. (include area code) (303) 928-7128		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 2383' FSL & 2047' FWL, NESW, Sec. 14, T10N-R64W At proposed prod. zone 2383' FSL & 2047' FWL, NESW, Sec. 14, T10N-R64W		10. Field and Pool, or Exploratory Pawnee Pioneer
14. Distance in miles and direction from nearest town or post office* Approximately 17.65 miles		11. Sec., T. R. M. or Blk. and Survey or Area NESW, Sec. 14, T10N-R64W, 6th P.M.
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2047'	16. No. of acres in lease 320	12. County or Parish Weld County
17. Spacing Unit dedicated to this well	18. Distance from proposed location* to nearest well, drilling, completed, applied for. on this lease, ft. 1265'	13. State CO
19. Proposed Depth 4300'	20. BLM/BIA Bond No. on file RLB0013620	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL5300'	22. Approximate date work will start* 08/01/2011	23. Estimated duration 20 days drilling

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed Typed) Kallasandra M. Moran	Date 07/29/2011
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Title
Agent for Ward Petroleum Corporation

Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

CONFIDENTIAL

DRILLING PROGRAM

Ward Petroleum Corporation
WPC Federal 14-5
2383' FSL & 2047' FWL, NESW, Sec. 14, T10N-R64W
Weld County, Colorado

1 – 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – SS</u>	<u>Lithology</u>	<u>Water, Oil, Gas Potential</u>
Fox Hills	1551'	3749'	Sandstone	Water
Richard	4212'	1083'	Sandstone	Water/Oil
TD	4300'			

PROSPECTIVE PAY: The Richard formation is the primary objective for oil/gas. Any shallow water zones encountered will be adequately protected and reported. All potentially productive hydrocarbon zones will be cemented off.

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 275'	No pressure control required
275' – TD	11" 3000# Ram Type BOP 11" 3000# Annular BOP
<ul style="list-style-type: none"> - Drilling spool to accommodate choke and kill lines; - Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2; - BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner. 	

4. **Casing Program**

<u>Hole Size</u>	<u>Setting Depth</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>From</u>	<u>To</u>					
12 ¼"	Surface	275'	8 5/8"	24#	J-55	ST&C	New
7 7/8"	Surface	4300' (TD)	4 ½"	11.6#	J-55	LT&C	New

5. **Cementing Program**

8 5/8" Surface Casing	Lead with approximately 165 sks of Class "G" cement with additives.
4 ½" Production Casing	Lead with approximately 150 sx of Class "G" cement with additives. Tail with approximately 200 sx of Class "G" cement with additives.
Note: Actual volumes to be calculated from log	

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' -275'	8.7	N/A	N/A	Water/Native Mud
275' - TD	8.6	40-60	6	Polymer/Gel
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. Ward Petroleum may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated;
Sampling	None anticipated;
Surveys	None anticipated;
Logging	Dual Induction, Guard, SP, GR & CBL

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 1700 psi.

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

10. Drilling Schedule

Location Construction: September 1, 2011
Spud: September 15, 2011
Duration: 20 days drilling time
 30 days completion time

OPERATOR CERTIFICATION

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this 29th day of July 2011

Name: Kallasandra M. Moran
Position Title: Regulatory Analyst, Agent for Ward Petroleum Corp.
Address: 1801 West 13th Avenue, Denver, Colorado 80204
Telephone: (303) 928-6237

Field Representative: Drew Deaton
Telephone: (580) 234-3229
Email: DrewD@WardPetroleum.com



Kallasandra M. Moran, Agent for Ward Petroleum Corp.

Surface Use Plan

Ward Petroleum Corporation
WPC Federal 14-5
2383' FSL & 2047' FWL, NESW, Sec. 14, T10N-R64W
Pawnee National Grasslands
Weld County, Colorado

The WPC Federal 14-5 was surveyed on April 8, 2011 by Petroleum Field Services for Ward Petroleum Corporation.

An onsite was completed for the WPC Federal 14-5 well location on May 9, 2011. Weather conditions were sunny and warm. In attendance at the onsite inspection were the following individuals:

Kallasandra Moran	Regulatory Manager	Petroleum Field Services, LLC
L.K. Stevenson	Surveyor	Petroleum Field Services, LLC
Vern Koehler	Natural Resource Specialist	U.S. Forest Service
Jordan Reveille	Geologist	Ward Petroleum Corporation

1. Existing Roads

A. Access and well location – SEE TOPO A & TOPO B

B. Directions to the location from Grover, Colorado are as follows:

From the intersection of County Road 390 and County Road 122 in Grover, Colorado, proceed west on County Road 122 +/- 0.7 miles. Turn left on County Road 87 and proceed south +/- 1.1 miles. Turn right on County Road 120 and continue west +/- 13.9 miles to County Road 59. Turn left on County Road 59 and proceed south +/- 1.2 miles to well access road. Turn right on well access road and proceed west +/- 1.0 miles. Turn left and continue on existing access road +/- 0.1 miles south. Turn left and continue southeast +/- 0.5 miles to proposed well.

C. The majority of the existing roads are maintained by the County Road Department or are located on U.S. Forrest Service (Pawnee National Grasslands) surface.

D. All existing roads will be maintained in the same or better condition as existing prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of this location.

- E. Upgrading of existing roads (improved oilfield/ranch roads) will not be necessary.
- F. All existing roads (previously improved) will be used “as is” with the exception of minor blading as needed.
- G. Surfacing material will not be placed on the access road unless determined necessary by the operator during drilling, depending on weather conditions at the time of drilling. All surface disturbing activities will be discussed with and agreed to with the surface owner.

2. **Access Roads to be Constructed and reconstructed**

- A. Approximately 0.5 miles of new access road is required to access the proposed well location. Additional disturbance is required for access to proposed well location.
- B. No turnouts will be installed.
- C. No low water crossings will be installed.
- D. No culverts will be installed.
- E. Surface disturbance and vehicular travel will be limited to the approved access route. Any additional area will be approved in advance.
- F. Construction, if required, will not be permitted using frozen material or during periods when the soil material is saturated or when watershed damage is likely to occur, unless agreed to by the surface owner.
- G. No cattle guards will be installed.

3. **Location of Existing Wells (Within a 1-Mile Radius)**

- A. See – Topo C
- B. Water wells – 3
 - SE, Sec. 14, T10N-R64W (Permit # 558-WCB/Receipt # C620558)
 - NESE, Sec. 14, T10N-R64W (Permit # 37120/Receipt # 37120)
 - SWNW, Sec. 14, T10N-R64W (Permit # 119389/Receipt #0401253B)
- C. Injection or Disposal Wells – None

D. Producing Wells – 7

- NWNW, Sec. 14, T10N-R64W
- SWSW, Sec. 14, T10N-R64W
- NWSW, Sec. 14, T10N-R64W
- SWNW, Sec. 14, T-10N-64W
- NWNW, Sec. 23, T10N-R64W
- NENW, Sec. 23, T10N-R64W
- SWNW, Sec. 23, T10N-R64W

E. Permitted or Drilling Wells – 1

- SESW, Sec. 11, T10N-R64W

F. Plugged and Abandoned – 3

- SWSW, Sec. 11, T10N-R64W
- SESE, Sec. 15, T10N-R64W
- NENE, Sec. 15, T10N-R64W

G. Shut-In Wells – None

H. Monitoring or Observation Wells - None

4. **Location of Existing and/or Proposed Facilities if Well is Productive**

On Well Pad

- A. Production facilities for the WPC Federal 14-5 well will be located offsite at the existing Ward Petroleum Corporation Colorado Energy Federal 14-1 facilities location (NWNW, Sec. 14, T10N-R64W).
- B. All permanent above-the-ground structures located at the existing well location, not subject to safety requirements, will be painted with the natural color of the landscape. Painting will be done within six months of installation unless winter weather conditions exist. The color selected for this project shall match Carlsbad Canyon (Munsell standard color No. 2.5Y6/2) or be an acceptable substitute pre-approved by the authorized officer. Standard environmental color charts are available from the local BLM office.

- C. A dike will be constructed around the production facilities. The dikes will be constructed of compacted subsoil, be impervious, hold 1.1 times the capacity of the largest tank, and be independent of the back cut.
- D. All access roads will be upgraded and maintained as necessary to prevent erosion and accommodate year-round traffic.
- E. Any necessary pits will be fenced to prevent wildlife entry.
- F. Produced waste water will be confined to the reserve pit or a tank for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location Onshore Order No. 7, along with the required water analysis will be submitted.
- G. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- H. The tank battery will be fenced if requested by the surface owner.
- I. No pipelines are proposed at this time; however, if they are needed in the future, they will follow existing and proposed roads.

5. **Location and Type of Water Supply**

- A. Water for drilling purposes will be obtained from an unspecified water hauler (to be determined at time of drilling). All water will come from legal sources within the Weld County area as deemed appropriate by the water hauler.
- B. Water will be hauled to the location along existing oilfield roads in the immediate area.
- C. All appropriate permits will be filed with the Colorado State Engineer's Office by the water hauler prior to use of this water source.

6. **Construction Materials**

- A. The use of materials would conform to 43 CFR 3610.2-3.
- B. If any gravel is used, it would be obtained from a State approved gravel pit.
- C. Construction materials which may be required for the surfacing of the access road, building of the well location and for expansion of the production facilities will be purchased from a supplier having a permitted source of materials.

- D. No construction materials will be removed from Federal lands without prior approval from the appropriate Surface Management Agency.
- E. Any materials to be used which are under BLM jurisdiction shall be approved in advance, as per CFR 3610.2-3.

7. **Methods for Handling Waste Disposal**

- A. The reserve pit shall not be used for flaring purposes during drilling or completion operations. All flaring shall be directed to a separate flare pit or temporary flare stack. The discharge point for the flare line needs to be located a minimum of 100 feet away from the wellbore and any existing production facilities, securely anchored, and positioned downwind from the prevailing winds. The frac fluid/load water may be directed to the frac water reserve pit as long as it contains materials that are RCRA exempt and a minimum of two feet of freeboard is maintained and as long as the fluids are chemically compatible with the pit liner.

- B. Drill cuttings are to be contained and buried in their respective lined reserve pits identified on the enclosed cut and fill sheet. Fluid and cuttings generated during the drilling of the surface hole using water-based mud will be kept in the primary reserve pit.

Cuttings generated in the drilling of the intermediate hole are to be contained and buried in their respective lined reserve pits identified on the enclosed cut and fill sheet. The cuttings will be separated by both shaker screen and centrifuge and discharged to a pit. The cuttings will be mixed with fly ash and/or sawdust and/or dirt to assure no free OBM is present in the mix to prevent leakage while transporting and to prep the cuttings for final solidification. The cuttings may be run through a plug mill if needed to help with mixture consistency before being placed in the OBM cuttings pit for final solidification.

- C. Drilling fluids, including salts and chemicals, utilized in the water-based mud system on the surface hole will be contained in the reserve pit. Liquid hydrocarbons produced during the completion operations will be placed in test tanks on the well location.
- D. Produced water will be placed in the frac water reserve pit for a period not to exceed ninety days after initial completion.

- E. In conformance with the Colorado Oil & Gas Conservation Commission requirement, the reserve pit shall be reclaimed no later than one year after the date of last use, unless the authorized officer grants an extension of time for just cause.
- F. If drilling or production fluids remain in the pit after one year, alternate methods of drying, removal of fluids, or other treatment measures shall be determined by the operator in consultation with the BLM. Necessary permits shall be acquired by the operator if fluids are transported off-site for disposal.
- G. The operator shall advise the authorized officer of the completion of pit reclamation by submitting a sundry notice.
- H. Any spills of oil or any other potentially hazardous material will be cleaned up and immediately removed to an approved disposal site.
- I. Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility.
- J. Sewage disposal will be in strict conformance with Colorado Department of Health and Environmental (CDPHE) rules and regulations regarding sewage treatment and disposal.
- K. Trash and other solid waste (including cans, paper, cable etc.) will be contained in a portable trash cage. The contents of the trash cage will be disposed of into a CDPHE approved sanitary landfill as needed or upon completion of operations. No trash is to be placed in the reserve pit.
- L. Used motor oil (change oil) will be placed in closed containers and disposed of at an authorized disposal site.
- M. Ward Petroleum Corporation maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives).

The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and Extremely Hazardous Substances and commercial perpetrations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

8. **Ancillary Facilities**

No camps, airstrips or other facilities will be necessary.

9. **Wellsite Layout**

- A. Construction is not permitted using frozen material or during periods when the soil material is saturated, or when watershed damage is likely to occur.
- B. If construction activities are required, the top six inches (or maximum available) from the location including areas of cut, fill and/or subsoil storage areas, will be stockpiled at the site.
- C. The reserve pit will be constructed with a minimum of one-half of the total depth below the original ground surface on the lowest point within the pit. The reserve pit will be designed to prevent the collection of surface runoff.
- D. Reserve pit liners, if used, must be impermeable (i.e. having a permeability of less than ten to the minus seven cm./sec.). The liner must be chemically compatible with all substances which may be out in the pit and installed in a competent manner. Liners made of any man made synthetic material will be sufficient strength and thickness to withstand normal installation and use. To insure the liner has a "life" long enough to meet its intended use, the liner will be resistant to chemical attack by liquid hydrocarbons and ultra violet light.
- E. The reserve pit will be fenced on the three non-working sides during drilling and the forth side will be fenced when the rig is removed. Fencing will be done with woven wire on the bottom and two strands of barbed wire on top. The wire will be held in place by steel posts and wooden corner "H" braces.

10. **Plans for Reclamation of the Surface**

- A. The BLM (Royal Gorge Office) will be notified 3 days prior to initiation of reclamation work.
- B. Rat and mouse holes shall be filed and compacted from bottom to top immediately upon release of the drilling rig from the location.

- C. Any hydrocarbons floating on the surface of the reserve pit will be removed as soon as possible after drilling operations are completed.
- D. Drill cuttings and muds should remain in the reserve pit until dry. The reserve pit will not be “squeezed”, “crowded”, or “cut”. When the pit is backfilled, cuttings and drilling muds will be covered with at least three feet of earth.

Cuttings placed in the invert cuttings pit will be checked and processed as necessary to assure complete solidification of the cuttings. Testing will be done in accordance with COGCC requirements. The pit will be closed, once approval is received from the COGCC, by placing a minimum of three feet of overburden on top of the cuttings.

Both the reserve pit and the invert cuttings pit have been designed to hold the total volume of cuttings expected to be generated from the respective part of the drilling operations and provide for a minimum of three feet of over burden on top of the cuttings.

- E. If the reserve pit does not dry, alternate methods of drying, removal of fluids, or other treatment shall be developed. If fluids are to be disposed of by a method other than evaporation, prior approval by the BLM is required. Note: If disposal involves discharge or transport, Colorado CDPHE approval is required.

In the Event of a Dry Hole

- F. Following receipts of “Notice of Intent to Abandon”, final BLM recommendations for surface reclamation will be specified. Please notify the Royal Gorge Field Office (BLM) prior to commencing operations.
- G. During reclamation of the site, the fill material will be pushed back into the cuts and up over the back slope. No depressions will be left that trap water or form ponds.
- H. Topsoil will be distributed evenly over the entire location and the seedbed prepared by disking to a depth of 4 to 6 inches following the contour. Spreading shall not be done when the ground or topsoil is frozen or wet.

- I. Where necessary, waterbars are to be constructed at least one foot deep on the contour with approximately two feet of drop per 100 feet of waterbar and extended into established vegetation to ensure proper drainage and reduce erosion. Waterbar spacing shall be as follows:

2% grade	= 200 foot interval
2-4% grade	= 100 foot interval
4-5% grade	= 75 foot interval
5-15% grade	= 50 foot interval
>15% grade	= 25 foot interval

- J. Fall seeding will be completed after September 1 and prior to ground frost. Spring seeding will be completed after the frost has left the ground and prior to May 15. A seed mixture will be provided by the surface owner, at the time of reclamation.

In the Event of Production

- K. All areas not required for production will be landscaped to conform with the surrounding topography. The topsoil will be distributed evenly over these areas and seeded with the specified seed mixture. Cut and fill slopes will be reduced to 4:1.
- L. All soil material that will be stockpiled for ten months or longer must be signed and stabilized with vegetation. The stockpiles will be seeded with annual rye grass (*Lolium multiflorum*) as a rate of ten pounds of seed per acre.
- M. Please contact the authorized officer, Royal Gorge Field Office, Bureau of Land Management (Canon City, Colorado), if there are any questions concerning the above rehabilitation stipulations.

11. Surface Ownership

Wellsite: Bureau of Land Management (Pawnee National Grasslands)

Roads: All access roads are located on BLM and private lands.

12. Other Information

- A. A Class III archeological survey will be completed prior to approval of this APD. The report will be filed with the BLM Royal Gorge office under separate cover.

- B. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collection artifacts. If historic or archeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer. Within five working days the authorized officer will inform the operator as to:
- whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
 - a timeframe for the authorized officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the finding of the authorized officer are correct and that mitigation is appropriate.
- C. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the authorized officer will assume responsibility for whatever recoordination and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The authorized officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the authorized officer that the required mitigation has been completed, the operator will then be allowed to resume construction.
- D. The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the authorized officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the authorized officer. The authorized officer will evaluate, or will have evaluated, such discoveries no later than five working days after being notified, and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measure to mitigate adverse effects to significant paleontological resources will be made by the authorized officer after consulting with the holder. The holder may be responsible for the cost of any investigation necessary for the evaluation, and for any mitigation measures.

- E. Pursuant to 43 CFR 10.4 (g) the holder of this authorization must notify the authorized officer, by telephone, with written confirmation, immediately upon the discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4 (C) and (d), you must stop activities in the vicinity of the discovery and protect it for thirty days or until notified to proceed by the authorized officer.
- F. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15. U.S.C. 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under the right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated byphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency of State government as a result of a reportable release or spill of any toxic substance shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- G. "Sundry Notice and Report of Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 32 CFR 3164.
- H. The dirt contractor will be provided with an approved copy of the Surface Use Plan.
- I. The APD is valid for a period of two years from the date of approval or until the oil and gas lease expires/terminates, whichever occurs first. The APD may be extended for an additional two year period if requested in writing prior to the expiration date. If the APD terminates, any surface disturbance created under the application must be reclaimed in accordance with the approved plan.

13. **Lessee's or Operators Representative and Certification**

Permitting

Petroleum Field Services
Attn: Kallasandra M. Moran
1801 West 13th Avenue
Denver, Colorado 80204
Office: (303) 928-7128
Email: kmoran@petro-fs.com

Drilling & Completions

Ward Petroleum Corporation
Attn: Drew Deaton
PO Box 118
Enid, Oklahoma 73702
Office: (580) 234-3229
Email: DrewD@WardPetroleum.com

WELL LOCATION CERTIFICATE

NW SEC. 14
2 1/2" ALUM. CAP
PLS 17492

N 88°15'52" E 5368.71'

NE SEC. 14
2 1/2" ALUM. CAP
PLS 38231

NOTES:
LAND SURFACE USE-RANGELAND
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

PDOP= 1.78
GPS OPERATOR:L K. STEVENSON

SURFACE LOCATION
GROUND ELEVATION= 5300'
NAD83
LATITUDE= 40.834002°
LONGITUDE= 104.516217°

N 01°05'47" W 5249.89'

WPC FEDERAL 14-5

14

4 |----- 2047'

2383'

S 00°11'01" E 5290.50'
(BASIS OF BEARINGS) SEE NOTE 3





SW SEC. 14
2 1/2" ALUM. CAP
PLS 38231

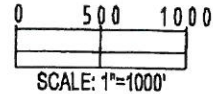
S 88°41'14" W 5284.12'

SE SEC. 14
2 1/2" ALUM. CAP
PLS 17492

WELL WPC FEDERAL 14-5 TO BE LOCATED 2383' FSL AND 2047' FWL

LEGEND

-  = EXISTING MONUMENT
  = BOTTOM HOLE
 BH = BOTTOM HOLE
 = PROPOSED WELL
 = EXISTING WELL



SCALE: 1"=1000'

NOTES:

1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. HORIZONTAL POSITIONS AND ORTHOMETRIC ELEVATIONS SHOWN AT THE WELL HEAD, ARE BASED ON GPS-RTK POSITIONS DERIVED FROM MINIMUM 2-HOUR STATIC OBSERVATIONS CORRECTED BY THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE, O.P.U.S. DATUM: HORIZONTAL = NAD83/2007, VERTICAL = NAVD88
3. THE BASIS OF BEARINGS ARE STATE PLANE COORDINATE SYSTEM GRID BEARINGS SHOWN HEREON BETWEEN THE DESCRIBED THE MONUMENTS SHOWN HEREON.
4. GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES.

I, L.K. STEVENSON, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO WARD PETROLEUM CORPORATION, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WERE DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED C.R.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

L.K. STEVENSON, PLS 38231
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC

7177421C 14

FIELD DATE:
04-08-11

DRAWING DATE:
04-15-11

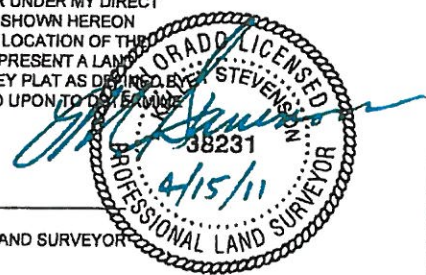
BY
SMF

SURFACE LOCATION:

NE 1/4 SW 1/4,
SEC. 14, T10N, R64W

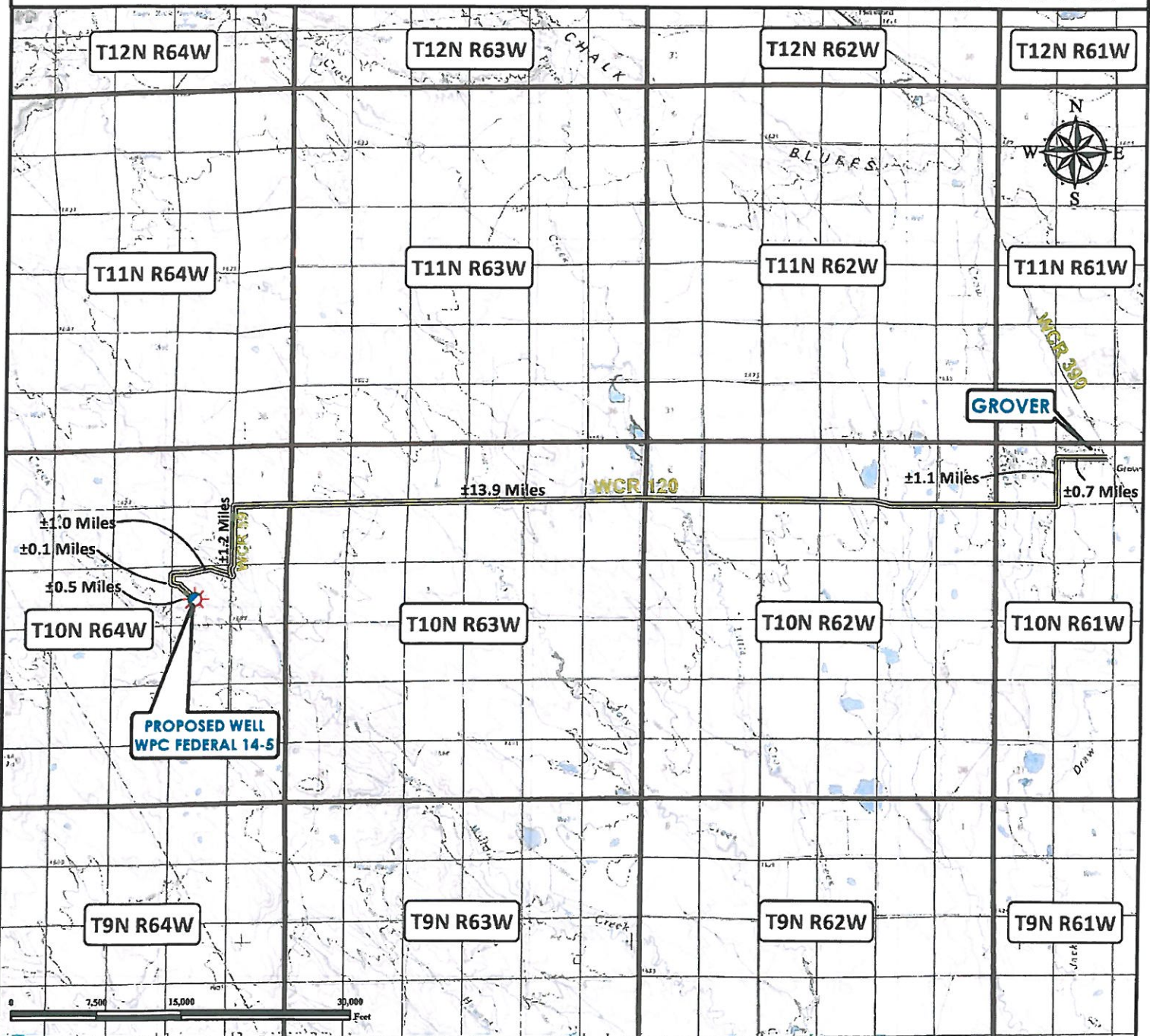
WELD COUNTY, COLORADO

NOTICE. ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.



Directions WPC FEDERAL 14-5

NE¼ SW¼ SECTION 14, TOWNSHIP 10 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN



From Grover, CO: From the intersection of County Road 390 and County Road 122 proceed West on County Road 122 ±0.7 Miles. Turn Left onto County Road 87 and proceed South ±1.1 Miles. Turn Right onto County Road 120 and continue West ±13.9 miles to County Road 59. Turn Left On County Road 59 and proceed South ±1.2 miles to well access road. Turn Right onto well access road and proceed West ±1.0 miles. Turn Left and continue on existing access road ±0.1 miles South. Turn Left and continue Southeast ±0.5 miles to proposed well location. Total distance from Grover, CO to proposed well location is 18.5 Miles.

Legend



Proposed Well WPC FEDERAL 14-5



Access Road

Reference Location

**** All Measurements are Made from Reference Well WPC FEDERAL 14-5 ****
 Lat: 40.834002° Long: -104.516217° (NAD 83)
 Elevation: 5300 Feet

Surface Use: Rangeland

Prepared for:



WARD
PETROLEUM
CORPORATION

A
TOPO



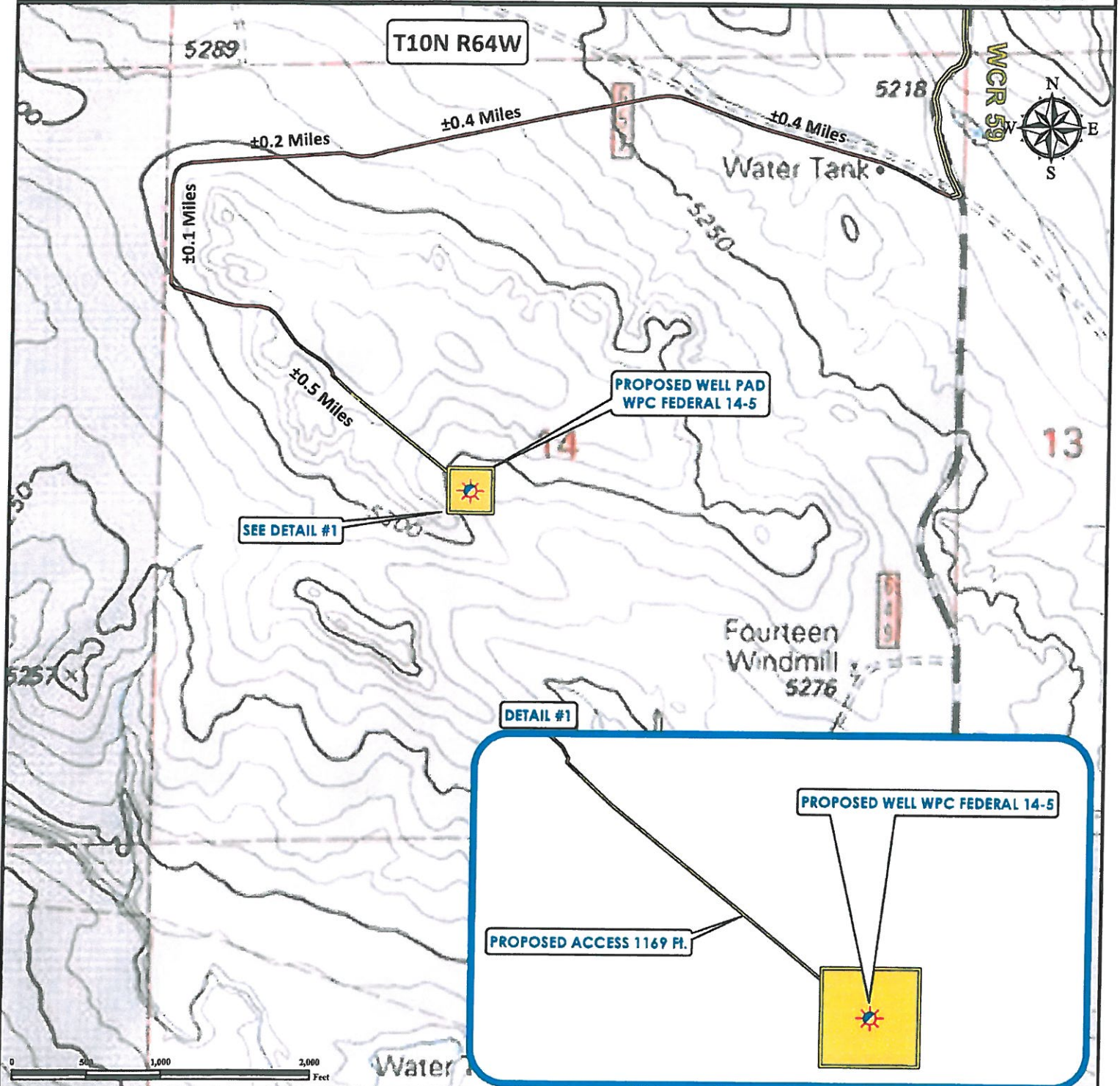
Use our resources to find yours!
www.petro-fs.com
 (303) 928-7128

Field Date: 04/08/2011
 Drafting Date: 04/19/2011
 Drafter: DMM
 Checked By: BHF

Data Sources:
 - Topo courtesy of USGS

Site Map WPC FEDERAL 14-5

NE¼ SW¼ SECTION 14, TOWNSHIP 10 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN



Legend

- Proposed Well WPC FEDERAL 14-5
- Proposed Pad
- Proposed Access Road
- Existing Public Road
- Existing Access Road

Reference Location

** All Measurements are Made from Reference Well WPC FEDERAL 14-5 **
 Lat: 40.834002° Long: -104.516217° (NAD 83)
 Elevation: 5300 Feet

Surface Use: Rangeland

Prepared for:



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CORPORATION

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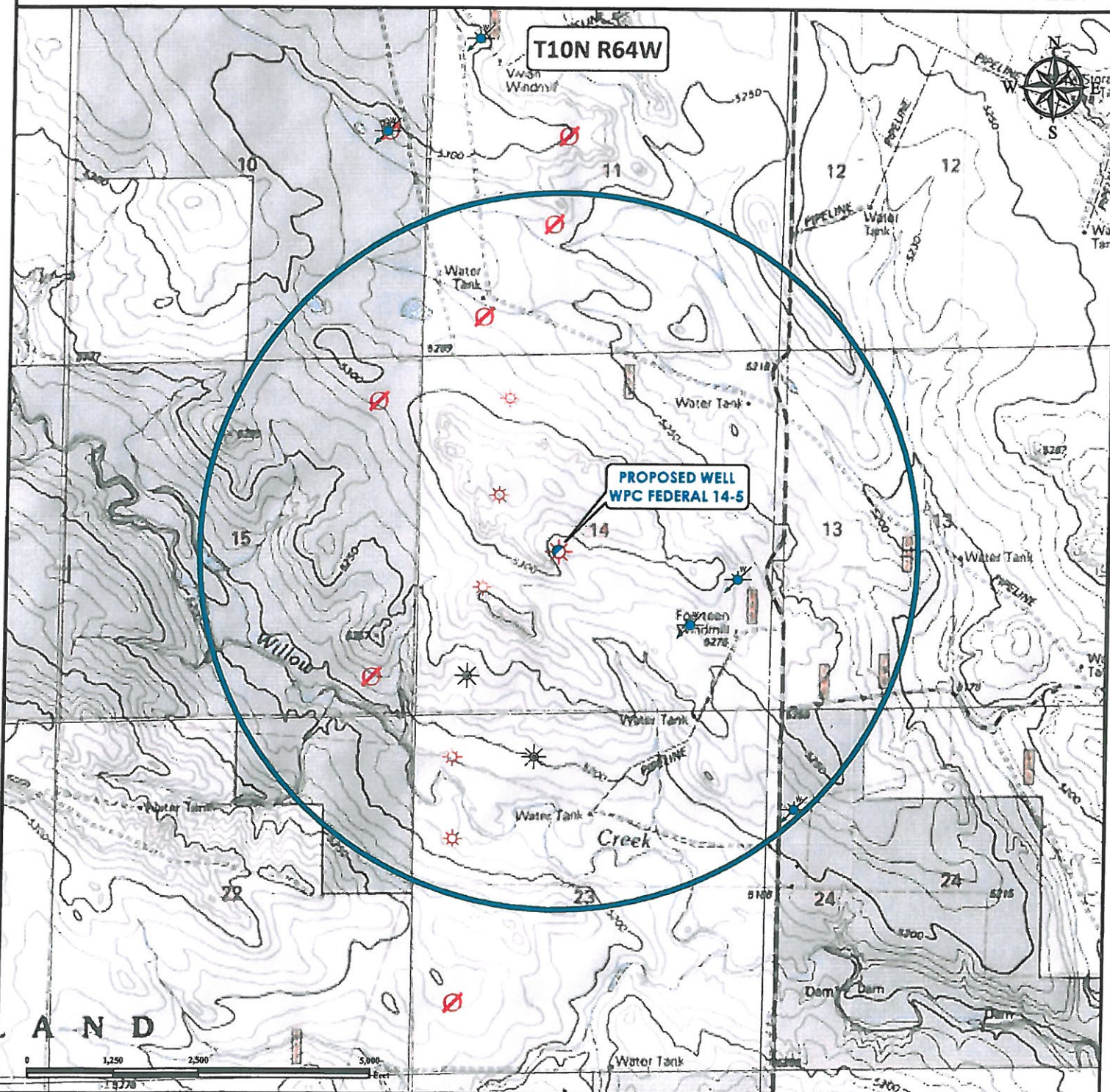
Field Date: 04/08/2011
 Drafting Date: 04/19/2011
 Drafter: DMM
 Checked By: BHF

Data Sources:
 - Topo courtesy of USGS

Well Proximity Map

WPC FEDERAL 14-5

NE¼ SW¼ SECTION 14, TOWNSHIP 10 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN



Legend

✱ Proposed Well
WPC FEDERAL 14-5

□ 1 Mile Radius

✱ Water Wells Drilled AND/OR Permitted

⊘ Dry and Abandoned

✱ Shut In

✱ Producing

Reference Location

** All Measurements are Made from
Reference Well WPC FEDERAL 14-5 **
Lat: 40.834002° Long: -104.516217° (NAD 83)
Elevation: 5300 Feet

Surface Use: Rangeland

C

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Field Date: 04/08/2011
Drafting Date: 04/19/2011
Drafted: DMM
Checked By: BHF

Data Sources:
- Topo courtesy of USGS
- Water wells CDWR
- O&G Wells COGCC

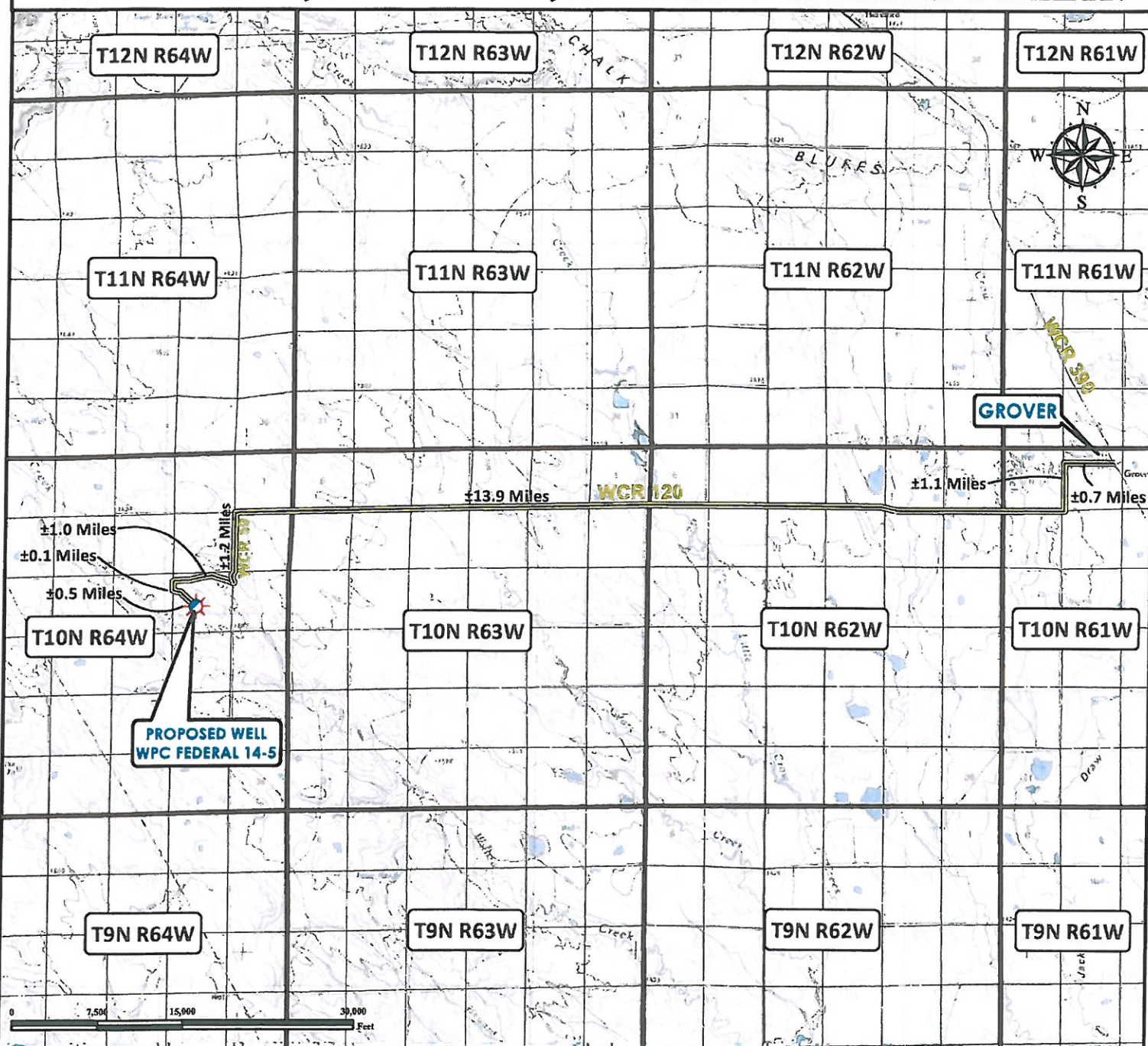
Prepared for:



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PETROLEUM
CORPORATION

Water Haul Route WPC FEDERAL 14-5

NE¼ SW¼ SECTION 14, TOWNSHIP 10 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN



From Grover, CO: From the intersection of County Road 390 and County Road 122 proceed West on County Road 122 ±0.7 Miles. Turn Left onto County Road 87 and proceed South ±1.1 Miles. Turn Right onto County Road 120 and continue West ±13.9 miles to County Road 59. Turn Left On County Road 59 and proceed South ±1.2 miles to well access road. Turn Right onto well access road and proceed West ±1.0 miles. Turn Left and continue on existing access road ±0.1 miles South. Turn Left and continue Southeast ±0.5 miles to proposed well location. Total distance from Grover, CO to proposed well location is 18.5 Miles.

Legend



Proposed Well WPC FEDERAL 14-5



Access Road

Reference Location

**** All Measurements are Made from Reference Well WPC FEDERAL 14-5 ****
Lat: 40.834002° Long: -104.516217° (NAD 83)
Elevation: 5300 Feet

Surface Use: Rangeland

D
TOPO



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Field Date: 04/08/2011
Drafting Date: 04/19/2011
Drafter: DMM
Checked By: BHF

Data Sources:
- Topo courtesy of USGS

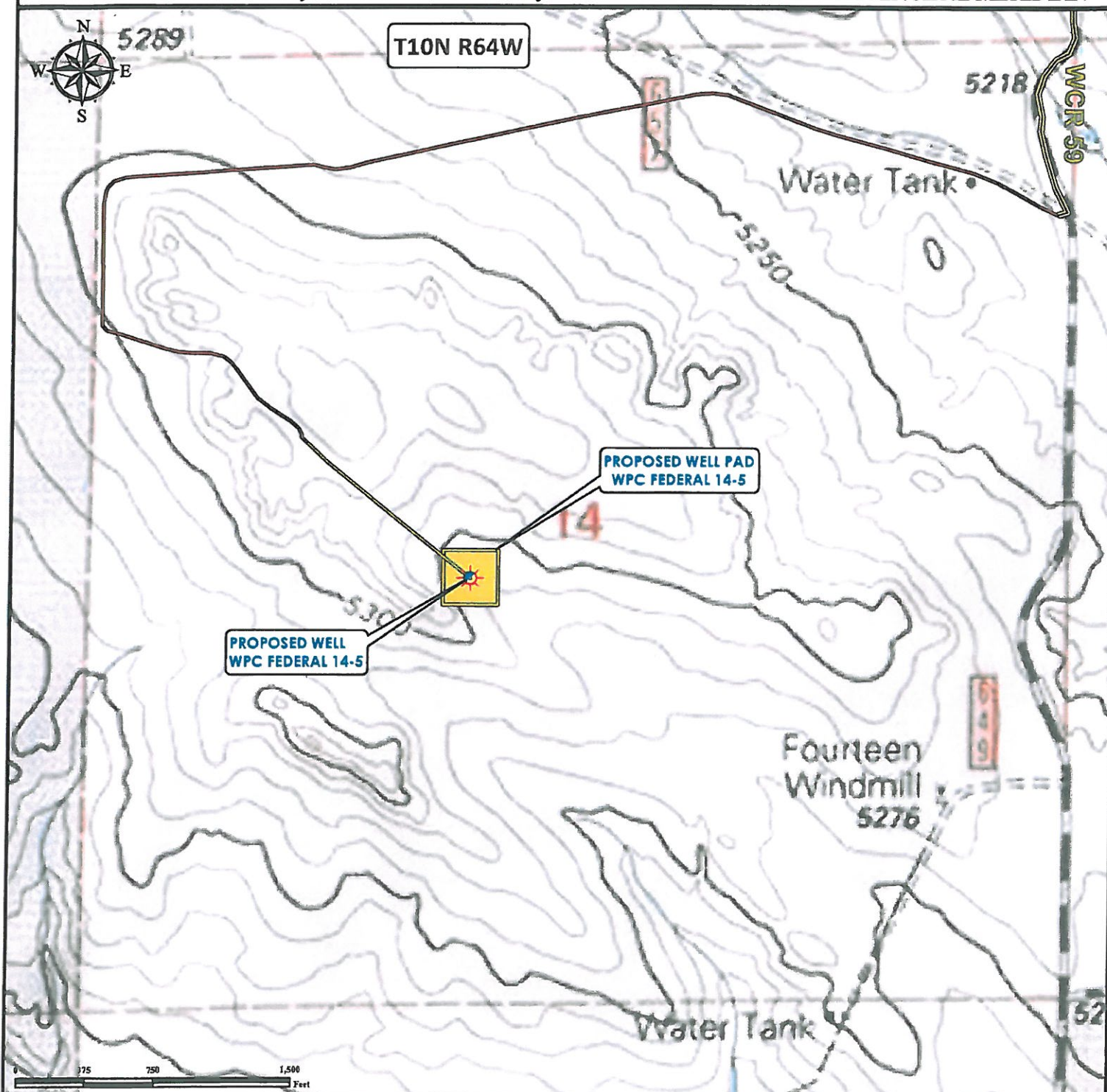
Prepared for:








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PETROLEUM
CORPORATION

Site Map Vicinity Map

NE¼ SW¼ SECTION 14, TOWNSHIP 10 NORTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN



Legend

-  Proposed Well WPC FEDERAL 14-5
-  Proposed Pad
-  Proposed Access Road
-  Existing Public Road
-  Existing Access Road

Reference Location

** All Measurements are Made from
Reference Well WPC FEDERAL 14-5 **
Lat: 40.834002° Long: -104.516217° (NAD 83)
Elevation: 5300 Feet

Surface Use: Rangeland

E
TOPO



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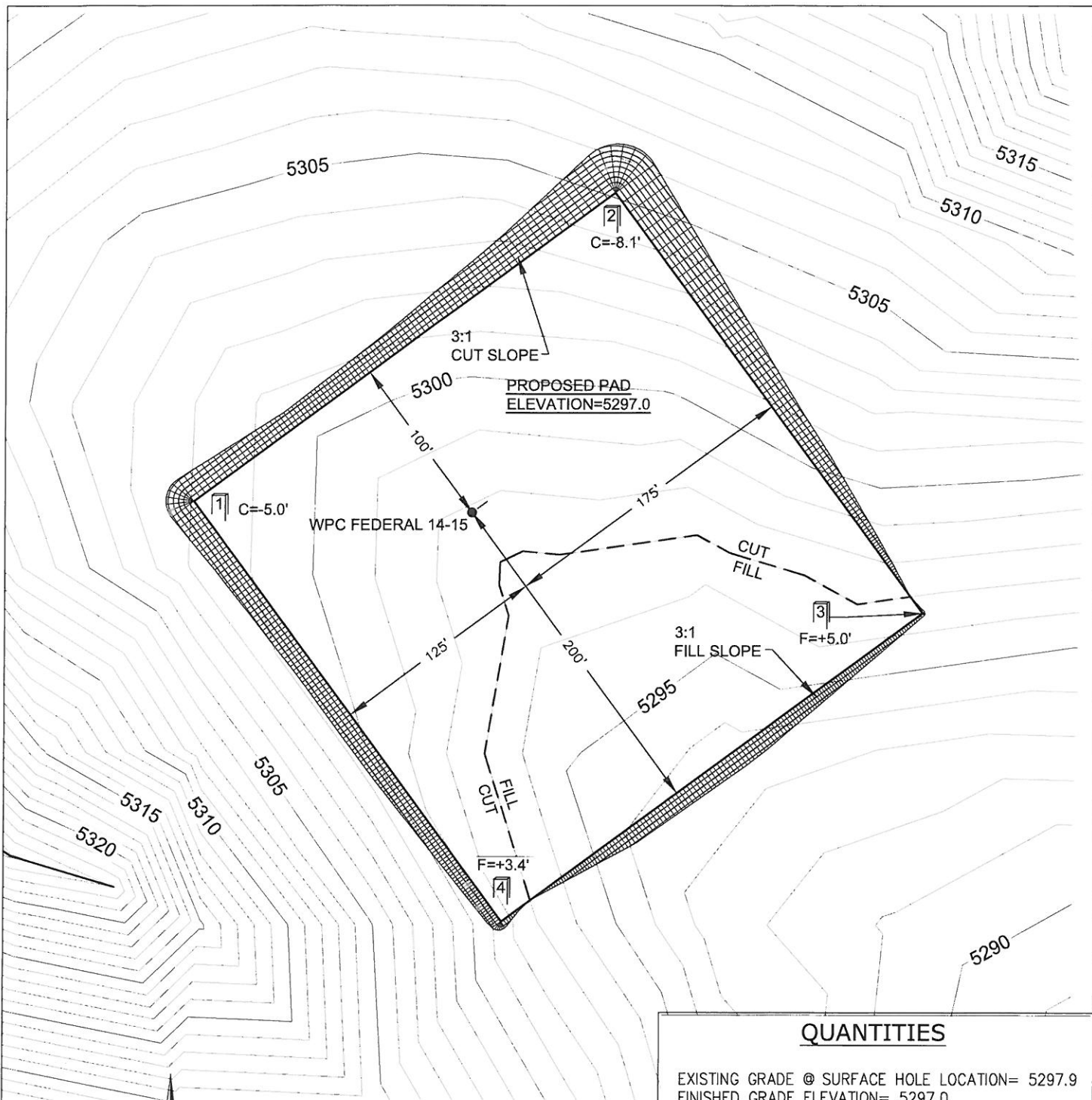
Field Date: 04/08/2011
Drafting Date: 04/19/2011
Drafter: DMM
Checked By: BHF

Data Sources:
- Topo courtesy of USGS

Prepared for:



WARD
PETROLEUM
CORPORATION



WELL PAD LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING WELLHEAD
- PROPOSED WELLHEAD

QUANTITIES

EXISTING GRADE @ SURFACE HOLE LOCATION= 5297.9
 FINISHED GRADE ELEVATION= 5297.0
 CUT SLOPES=3:1
 FILL SLOPES=3:1
 TOTAL CUT FOR WELL PAD = XXXX CY
 TOTAL FILL FOR WELL PAD = XXXX CY
 TOPSOIL @ 6" DEPTH = XXXX CY
 EXCESS MATERIAL = XXXX CY
 TOTAL WELL PAD AREA = XXX ACRES
 TOTAL DISTURBANCE AREA = XXX ACRES

PREPARED BY:



FIELD DATE:

04-08-11

DRAWING DATE:

04-15-11

BY:

BWT

WELL NAME:

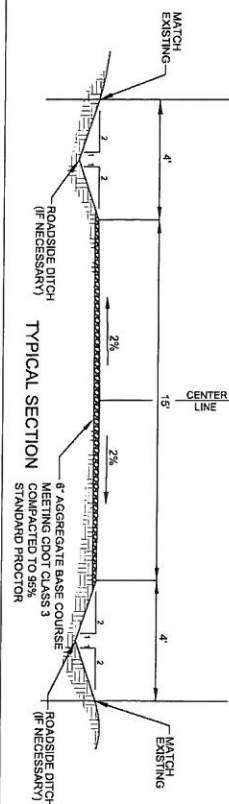
WPC FEDERAL 14-15 PAD

SURFACE LOCATION:

NE 1/4, SW 1/4, SEC. 14, T10N, R64W
WELD COUNTY, COLORADO

PREPARED FOR:

Ward Petroleum Corporation



SITE NAME:
WPC FEDERAL 14-15 ACCESS ROAD PLAN & PROFILE

SURFACE LOCATION:
WELD COUNTY, COLORADO
SECTION 14, T10N, R64W

FILED DATE:
05-09-2011

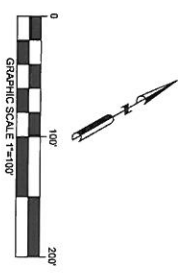
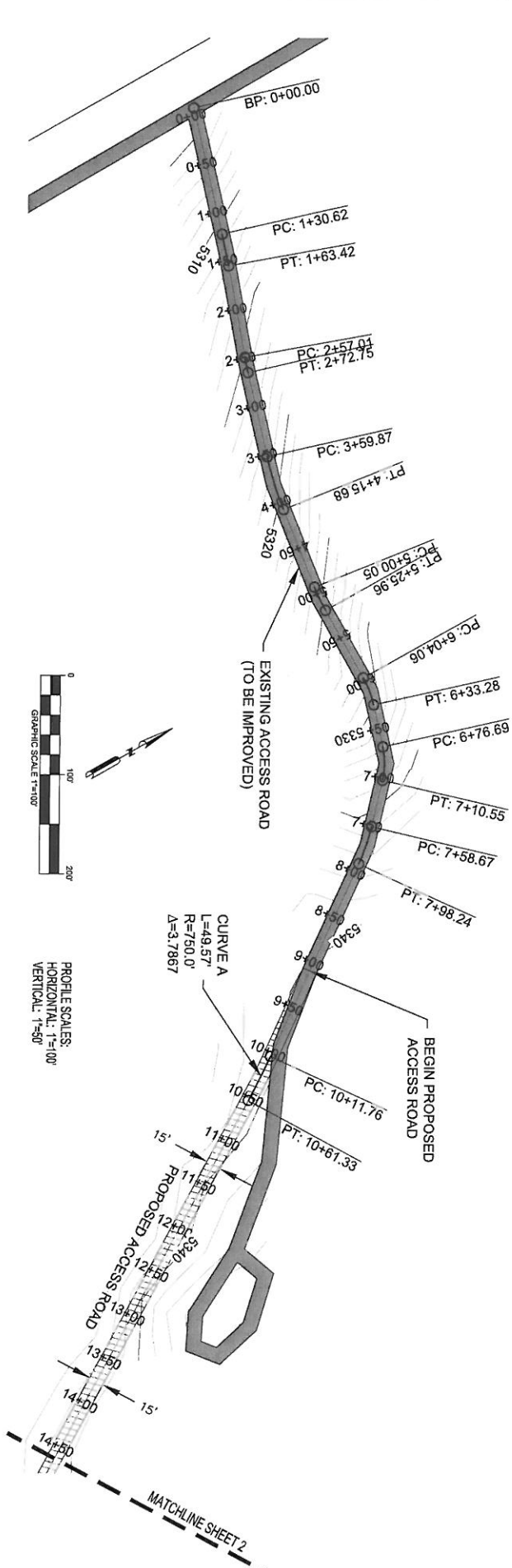
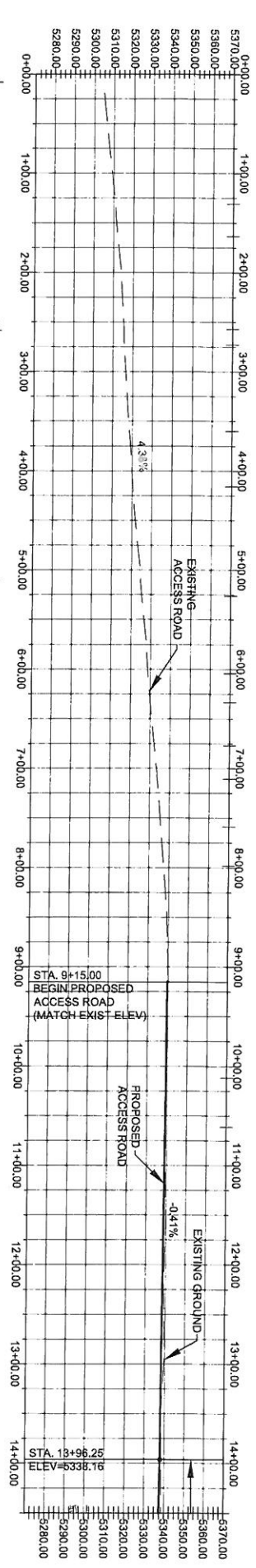
DRAWING DATE:
05-17-2011

BY:
BWT

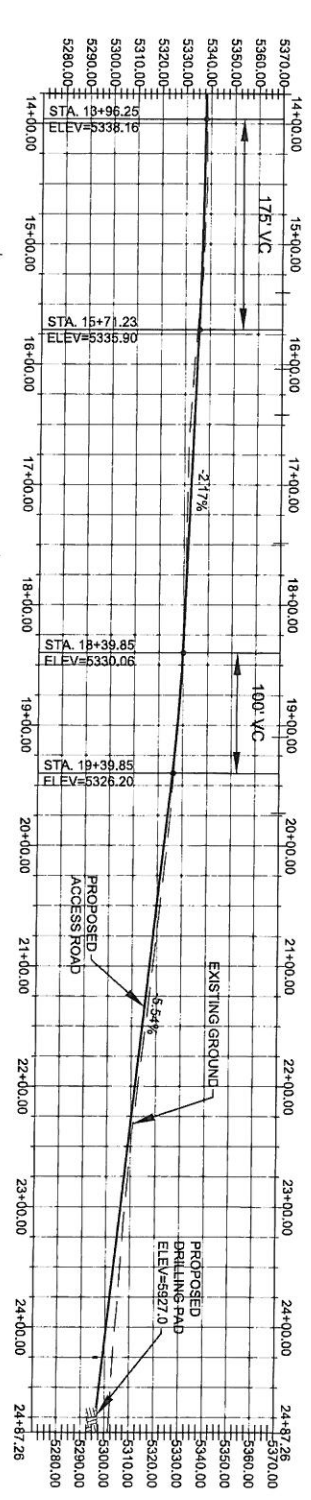
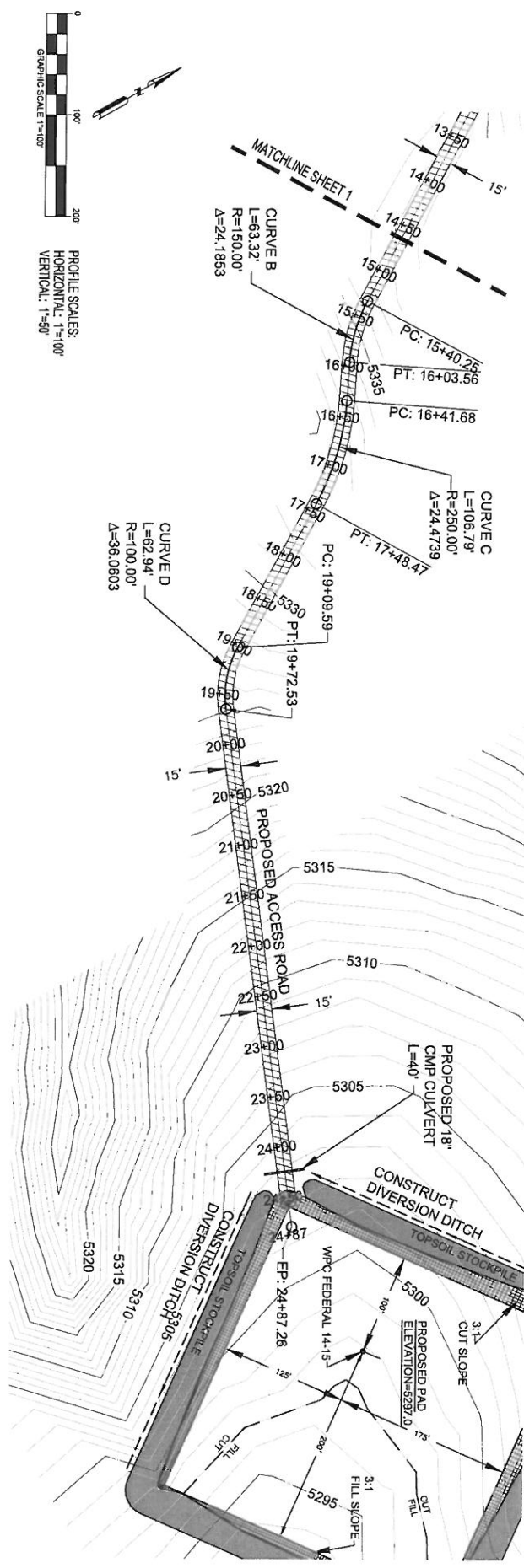
PREPARED FOR:
Ward Petroleum Corporation

PREPARED BY:
PFS
Petroleum Field Services, LLC
1801 W. 13th Ave.
Denver, CO 80204

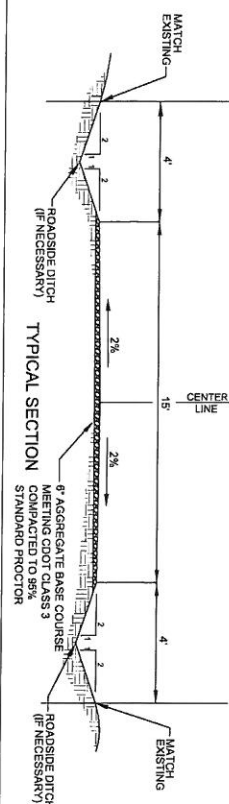
SHEET NO.
1
OF 1



PROFILE SCALES:
HORIZONTAL: 1"=100'
VERTICAL: 1"=80'



TYPICAL SECTION



SITE NAME:		WPC FEDERAL 14-15 ACCESS ROAD PLAN & PROFILE
SURFACE LOCATION:		WELD COUNTY, COLORADO
SECTION 14, T10N, R64W		
FIELD DATE:		05-09-2011
DRAWING DATE:		05-17-2011
BY:		BWT
PREPARED FOR:		Ward Petroleum Corporation
PREPARED BY:		PFS Petroleum Field Services, LLC
1801 W. 13th Ave.		Denver, CO 80204