

IDAHO DEPARTMENT OF LANDS
DIRECTOR'S OFFICE
300 N 6th Street Suite 103
PO Box 83720
Boise ID 83720-0050
Phone (208) 334-0200
Fax (208) 334-5342



TOM SCHULTZ, DIRECTOR
SECRETARY TO THE COMMISSION

IDAHO OIL AND GAS
CONSERVATION COMMISSION
Chris Beck, Chairman
Margaret Chipman, Vice-Chairman
Sid Cellan
James Classen
Ken Smith

September 29, 2016

Crissy Ventura
Regulatory Analyst, Progressive Consulting
Consultant on behalf of CPC Mineral LLC
600 17th Street, Suite 2827C South
Denver, CO 80202

SUBJECT: Permit to Drill #11-019-20013, Federal 18-2, Bonneville Co., ID

The Idaho Department of Lands (IDL) has completed our review of this permit to drill for oil and gas. Enclosed is a copy of the approved permit. This permit was approved with the following stipulations:

1. The conductor pipe shall be cemented to the surface as required by IDAPA 20.07.02.310.04. Permittee shall use ready mix cement unless water is encountered, in which case an appropriate slurry mix will be used.
2. During drilling and logging of the hole for the production casing, the permittee shall identify any water bearing zones and isolate those zones in the annular space during cementing or completion activities.
3. Only the Federal 18-2 well is authorized through this permit. The remaining proposed wells shown on the Mineral Lease Map dated August 9, 2016 and included as part of the APD will require separate applications.
4. The permittee shall be required to submit an affidavit covering the initial BOP pressure test after installation signed by the operator or contractor attesting to the satisfactory pressure test.
5. The permittee shall ensure tanks are adequately sized, designed and constructed for the reception and confinement of mud and cuttings and to prevent contamination of streams and potable water.
6. Drilled holes cannot be used for any other purposes unless they are constructed according to the applicable well construction standards administered by the Idaho Department of Water Resources.
7. Applicant will obtain any needed water rights from Idaho Department of Water Resources if nearby wells will be used to supply water for the drilling operations.
8. All well information required by IDAPA 20.07.02.340 and 341 will be submitted to IDL within 30 days of well completion or the logs being run.
9. Well Log information shall be submitted in paper and electronic formats.
10. Idaho Department of Lands inspectors shall have 24 hour, unencumbered access for compliance and regulatory purposes.

11. All cementing operations shall be in accordance with IDAPA 20.07.02.310. Cement will be returned to surface on the surface casing via the pump and plug method or other method as approved by the Department.
12. This permit does not grant the right for ingress or egress nor does this application grant the right to production from unleased lands.
13. No production or drainage may occur until item 11 above has been met or the Commission has issued an order to satisfy item 11.
14. If potential hydrocarbon-bearing zones are encountered, no production may occur without a final processed angular deviation and directional survey being submitted to the Department.

Please ensure that all operations are conducted in accordance with the requirements of IDAPA 20.07.02 (Rules Governing Conservation of Oil and Natural Gas in the State of Idaho).

This permit will be administered by IDL staff and possibly a contractor hired by IDL. We will be inspecting the drilling operation. Please contact me at 208-334-0261 if you have any questions.

Sincerely,



Eric Wilson
Resource Protection and Assistance Bureau Chief

cc: Gary Billman, Resource Specialist, IDL Eastern Office
Chad Hersley, IDWR, PO Box 83720, Boise, Idaho 83720-0098
Steve Serr, Bonneville County Planning and Zoning, 605 N Capital Ave, Idaho Falls, ID,
83402



IDAHO OIL AND GAS CONSERVATION COMMISSION

Application For Permit to Drill, Deepen or Plug Back

APPLICATION TO: Drill (\$2,000) [X] Deepen (\$500) [] Plug Back (\$500) []

NAME OF OPERATOR: CPC Mineral LCC Date: 8/24/2016

Address: 4244 West Sandalwood Dr.

City: Cedar Hills State: Utah Zip Code: 84062 Telephone: 801-368-6562

Contact Name: Crissy Venturo Email Address: cventuro@progressivepcs.net

Emergency Contact Name/Phone: Brett O, Haslem, 435-828-5007

DESCRIPTION OF WELL AND LEASE

Name of Lease: Federal Well Number: 18-2 Elevation (ground): 6398'

Well Location: Section: 18 Township: 3S Range: 43E (or block and survey)

(Give footage from Section lines): 650' FSL, 460' FEL

Latitude/Longitude (Dec Degrees): 43.153011 /-111.453453 Datum: WGS84 X NAD83 NAD27

Field and Reservoir (if wildcat, so state): Wildcat County: Bonneville

Distance, in miles, and direction from nearest town or post office: Well is 9.9 miles NW from Gray, Idaho

Nearest distance from proposed location to property or lease line: 460' to the nearest property line feet

Distance from proposed location to nearest drilling, completed or applied for on the same lease: N/A feet

Proposed depth: 7000' Approx date work will start: Sept. 2016 Number of acres in lease(s): 1.984

Number of wells on lease, including this well, completed in or drilling to this reservoir: N/A

If lease purchased with one or more wells drilled, complete the following information:

Purchased from (Name): N/A

Address of above:

Bond Type and Number:

Surface Rights Owner (At proposed surface location): Name Udy Cattle Company Phone: 208-221-2277 or 208-221-1909

Does the drilling unit contain state leases? 1 If yes, check all that apply:

IDL [] IDFG [] IDT [] Public Trust [] Other []

Does this application include the following actions? If yes, check all that apply:

Well Treatment [] Pit construction [] Directional or Horizontal Drilling []

Applications that include well treatments, pit construction, and directional drilling must provide attachments with the information required from the respective sections of IDAPA 20.07.02. If these activities are not included in this application, then a separate application and approval will be required prior to commencement of any of these activities.

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

IDAHO DEPARTMENT OF LANDS 2016 AUG 29 AM 10:27 BOISE, IDAHO



IDAHO OIL AND GAS CONSERVATION COMMISSION

Application For Permit to Drill, Deepen or Plug Back

Applicant(s) should be familiar with and adhere to IDAPA 20.07.02, Rules Governing Conservation of Crude Oil and Natural Gas in the State of Idaho.

Please check the boxes below to indicate that you have supplied the required information.

Maps Required

- Attach a survey plat or map, preferably on a scale of one (1) inch equals one thousand (1,000) feet, prepared by a licensed surveyor or engineer.
The plat must show:
[X] The proposed well location. For directional wells, both surface and bottomhole locations should be marked.
[X] The location of the well with reference to the nearest lines of an established public survey.
[X] All leased tracts held by the applicant within the drilling unit. Distances of the proposed well from the two nearest unit boundary lines, if applicable, and from the nearest oil or gas wells on the same unit completed in or being drilled to the same reservoir.
[X] The location of the nearest structure with a water supply, or the nearest water well as shown on the IDWR registry of water rights or well log database.

Other Required Information

- [X] Estimated depth to the top of the important geologic markers
[X] Estimated depth to the top of the target formations.
[X] Information on the type of tools to be used.
[X] Proposed logging program.
[X] Proposed casing program, including size and weight of casing and the depth at which each casing type is to be set.
[X] Type and amount of cement to be used, and the intervals cemented.
[X] Information on the drilling plan (drill pad and rig set up, etc).
[X] Schematic diagram of the BOP and well head assemblies, including the minimum size and pressure rating of all components of the BOP and well head assemblies.
[X] Best management practices to be used for erosion and sediment control.
[X] Plan for interim reclamation of the drill site after the well is completed, and a plan for final reclamation of the drill site following plugging and abandonment of the well.

CERTIFICATION: I, Crissy Venturo the undersigned, state that I am the Regulatory Analyst/Consultant of CPC Mineral LLC (company) and that I am authorized by said company to make this application, and that this application was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge.

Date: 8/24/2016 Signature: Crissy Venturo

NOTICE: Before submitting this form, be sure that you have given all information requested.

IDL Office Use Only:

Approval Date: 9/29/16 Approved by: [Signature] Bureau Chief

US Well Number: 11-019-20013 Operator Number (if known):

CPC Mineral LLC

4244 W Sandalwood Dr.
Cedar Hills, UT 84062

September 7, 2016

VIA FEDERAL EXPRESS

Idaho Department of Lands
Oil and Gas Program
300 N 6th Street, Suite 103
PO Box 83720
Boise, Idaho 83702

RE: Federal 18-2 Updated Application for Permit to Drill
SESE of Section 18, T3S, R43E, Boise Meridian

To Whom It May Concern:

In response to the Idaho Department of Land's letter dated September 6, 2016, please find enclosed an update to CPC Mineral LLC's application for permit to drill the Federal 18-2 oil well. Please note the revised Federal 18-2 application dated August 24, 2016, is for the request to drill a proposed oil well. The following revision to the application's supporting exhibits is included per the IDL's request.

- 1) Copy of the updated Bond Application with the correct state of incorporation and year of application

If you have any questions or need additional information, I can be reached at the contact information below.

Sincerely,



Crissy Ventura

Regulatory Analyst, Progressive Consulting
Consultant on behalf of CPC Mineral LLC
600 17th Street, Suite 2827C South
Denver, CO 80202
Cell: 720-352-7916
Office: 720-359-1612
Email: cventura@progressivepcs.net

Enclosures:

BOISE, IDAHO
2016 SEP -8 AM 10:03
DEPT. OF LANDS

CPC Mineral LLC

4244 W Sandalwood Dr.
Cedar Hills, UT 84062

August 24, 2016

VIA FEDERAL EXPRESS

Idaho Department of Lands
Oil and Gas Program
300 N 6th Street, Suite 103
PO Box 83720
Boise, Idaho 83702

RE: Federal 18-2 Updated Application for Permit to Drill
SESE of Section 18, T3S, R43E, Boise Meridian

To Whom It May Concern:

In response to the Idaho Department of Land's letter dated August 3, 2016, please find enclosed CPC Mineral LLC's updated application for permit to drill the proposed Federal 18-2. The following updates have been made on the application and supporting exhibits per the IDL's request and CPC's changes to their proposed operations.

- 1) Signed bond application and check
- 2) Casing Design Table showing top of cement at 1000' for production casing
- 3) Well name change on application and supporting exhibits to reflect lessor
- 4) Updated Drilling Prognosis to reflect all cuttings to be hauled offsite
- 5) Updated Reclamation Plan to reflect a closed-loop drilling system

If you have any questions or need additional information, I can be reached at the contact information below.

Sincerely,



Crissy Venturo

Regulatory Analyst, Progressive Consulting
Consultant on behalf of CPC Mineral LLC
600 17th Street, Suite 2827C South
Denver, CO 80202
Cell: 720-352-7916
Office: 720-359-1612
Email: cventuro@progressivepcs.net

Enclosures:

DEPT. OF LANDS
2016 AUG 29 AM 10:26
BOISE, IDAHO

CPC Mineral LLC

Idaho Oil and Gas Conservation Commission

Application for Permit to Drill

Federal 18-2

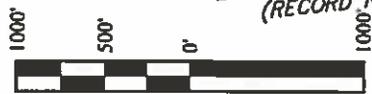
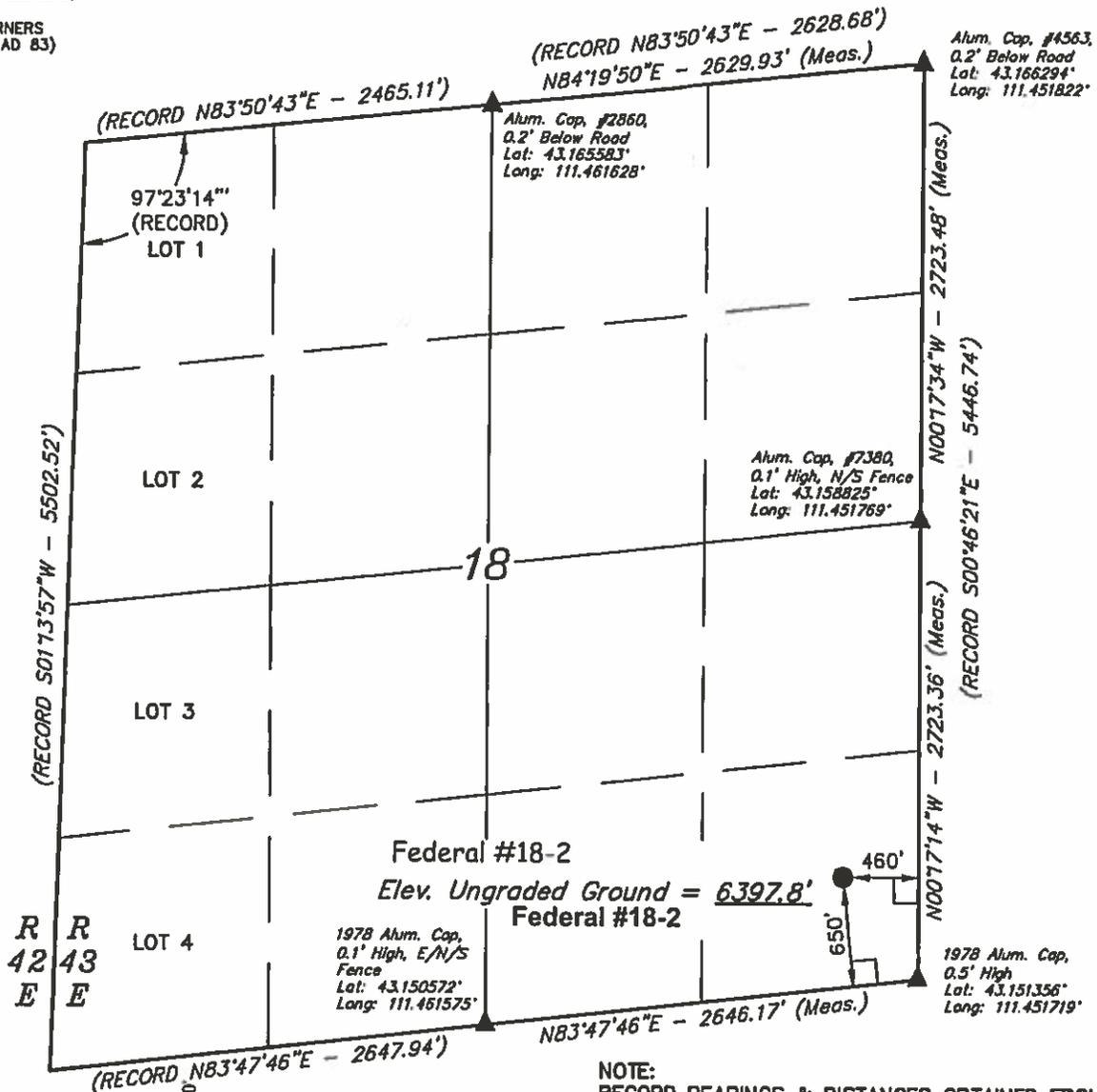
SESE, Section 18, T3S, R43E

- ✓ Application for Permit to Drill
- ✓ Well Location Plat
- ✓ Copy of Bond Application
- ✓ Certification of Executed SUA
- ✓ Mineral Lease Map (Confidential)
- ✓ Drilling Plan
- ✓ Erosion and Sediment Control Plan
- ✓ Proposed Pad Construction Diagrams and Additional Maps
- ✓ Reclamation Plan

LEGEND:

- 90° SYMBOL
- PROPOSED WELLHEAD.
- ▲ SECTION CORNERS LOCATED. (NAD 83)

T3S, R43E, BOISE MERIDIAN



NAD 83 (SURFACE LOCATION)	
LATITUDE = 43°09'10.84" (43.153011)	
LONGITUDE = 111°27'12.43" (111.453453)	
NAD 27 (SURFACE LOCATION)	
LATITUDE = 43°09'11.14" (43.153094)	
LONGITUDE = 111°27'09.62" (111.452672)	

PDOP = 1.3

HE
HARPER-LEAVITT ENGINEERING, INC.
 CIVIL AND STRUCTURAL ENGINEERING, MATERIALS TESTING AND LAND SURVEYING

NOTE:
 RECORD BEARINGS & DISTANCES OBTAINED FROM
 CP&F RECORDS PREVIOUSLY FILED.

PROFESSIONAL LAND SURVEYOR CERTIFICATE
 I HEREBY CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD
 NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION
 AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY
 KNOWLEDGE AND BELIEF.

CHRIS G. STREET
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 12274
 STATE OF IDAHO

REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

BASIS OF BEARINGS
 BASIS OF BEARINGS IS A G.P.S. OBSERVATION

BASIS OF ELEVATION
 BENCH MARK (C45) LOCATED IN THE SE 1/4 OF SECTION 19, T3S, R43E, BOISE MERIDIAN,
 TAKEN FROM THE HERMAN, QUADRANGLE, IDAHO, BONNEVILLE COUNTY, 7.5 MINUTE
 QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE
 INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6391 FEET.

UINTAH
 ENGINEERING & LAND SURVEYING

UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



CPC Mineral LLC
Federal #18-2
 SE 1/4 SE 1/4, SECTION 18, T3S, R43E, BOISE MERIDIAN
 BONNEVILLE COUNTY, IDAHO

SURVEYED BY	BART HUNTING, B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1" = 1000'

WELL LOCATION PLAT

**SELF-CERTIFICATION STATEMENT
FROM LESSEE/OPERATOR**

SURFACE OWNER IDENTIFICATION

Federal or Indian Lease No. IDI-35674
Well(s) Number and Location Federal 18-2
SESE, Sec 18, T3S, R43E, 650' FSL & 460' FEL

I hereby certify to the Authorized Officer of the Bureau of Land Management that I have reached one of the following agreements with the Surface Owner; or after failure of my good-faith effort to come to an agreement of any kind with the Surface Owner, I will provide a bond or comply with State requirements:

- 1) _____ I have a signed access agreement to enter the leased lands;
- 2) _____ I have a signed waiver from the surface owner;
- 3) X I have entered into an agreement regarding compensation to the surface owner for damages for loss of crops and tangible improvements.
- 4) _____ Because I have been unable to reach either 1), 2), or 3) with the surface owner, I have obtained a bond to cover loss of crops and damages to tangible improvements and served the surface owner with a copy of the bond.

Surface owner information: (if available after diligent effort)

Surface Owner Name: Udy Cattle Company

Surface Owner Address: 455 Pierce St, American Falls, ID 83211

Surface Owner Phone Number: (801) 221-2277

Signed this 17th - day of August, 2016

CPC Mineral LLC
(Name of lessee/operator)



Philip Clegg
Managing Member

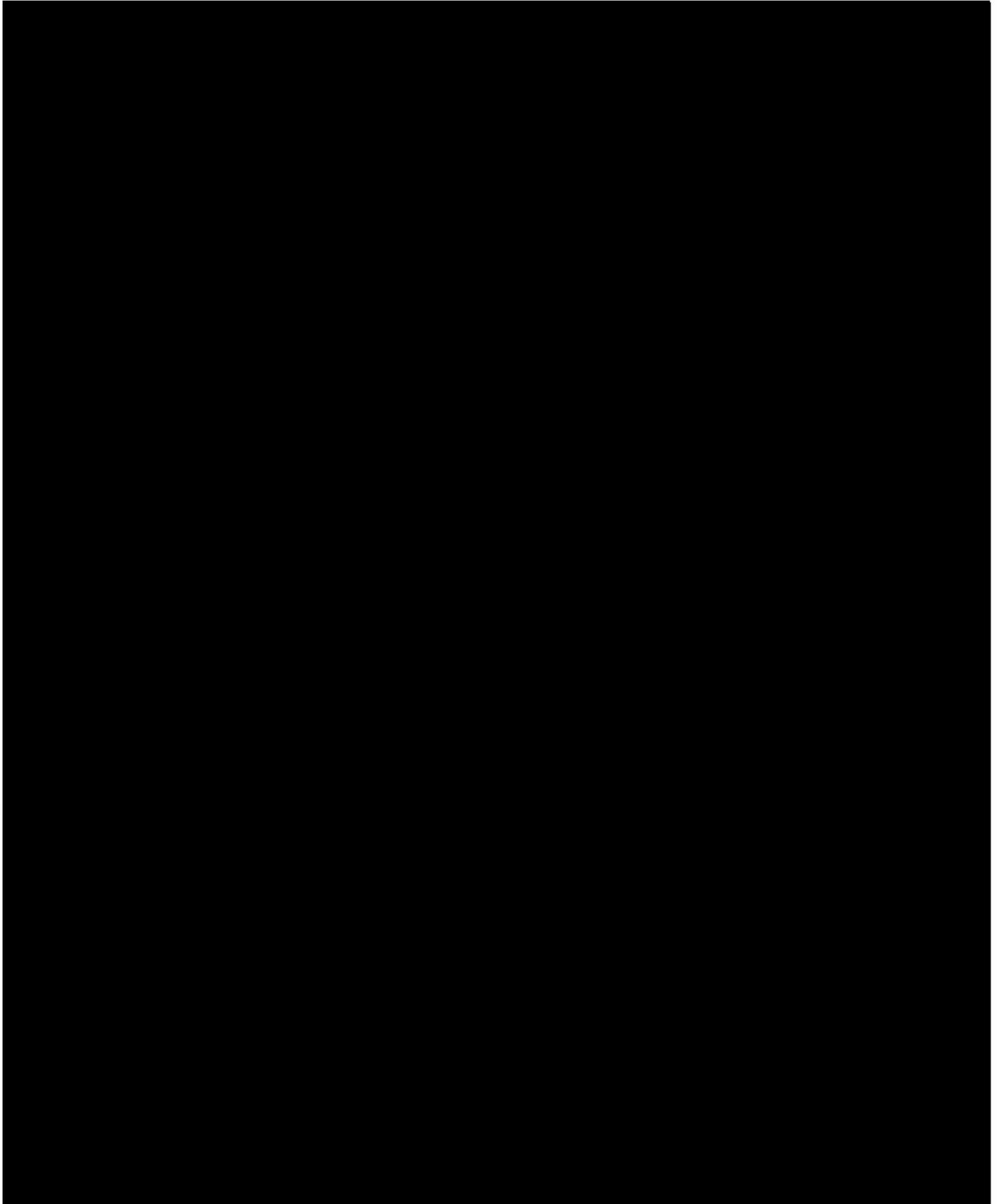
Confidential

Mineral Lease Map

CARIBOU OIL PROSPECT Well Location MAP
Sections 18 & 20, T3S R43E BM

CPC Mineral, LLC

August 9, 2016



OPERATOR: CPC MINERAL LLC	DRILLING PROGNOSIS	BONNEVILLE COUNTY, IDAHO
Federal 18-2		8/11/2016

1. LOCATION AND DIRECTIONAL SUMMARY

SURFACE LOCATION	BOTTOM HOLE LOCATION	DISPLACEMENT	ELEVATIONS
650' FSL, 460' FEL	CONTROLLED		6411' KB
Sec. 18, T3S, R43E	VERTICAL WELL	NA	6398' GL

Federal 18-2 will be drilled as 7000' [REDACTED]. Surface casing will be 9 5/8" set in 12 1/4" hole at 2000' and cemented to surface. A steerable system will be run in both the surface and production hole sections to keep the well path vertical. The 5 1/2" production casing will be cemented in 8 3/4" hole at 7000' for production purposes. Two stage cementing will be performed to bring cement into the surface casing.

2. GEOLOGIC DATA AND OBJECTIVES

FORMATION	DEPTH KB TVD	SUBSEA	POSSIBLE CONTENT
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	Oil / Gas
RTD	7000'	-589'	

3. CASING SUMMARY

INTERVAL	PURPOSE	HOLE SIZE	SIZE	WT	GRADE	THREAD
0'-60'	Conductor	20"	16"	0.25 Wall	---	PE
0'-2000'	Surface	12-1/4"	9-5/8"	36#	J-55	STC
0'-7000'	Production	8 3/4"	5-1/2"	17#	P-110	LTC

Casing ratings, anticipated loads, and safety factors are listed in the attached "Casing Design Table".

4. SUMMARY OF DRILLING HAZARDS

Lost circulation is possible in all hole intervals due to fracturing and faulting.
 Diligent directional control of the well path will be necessary to keep the well vertical.
 Sloughing shale and unstable formations have caused stuck drill pipe in this area.
 All formations encountered are anticipated to be normally pressured, no H2S is expected.

5. MUD PROGRAM

FROM	TO	TYPE MUD	WEIGHT	FLUID LOSS
0'	2,000'	Spud	8.6-9.0	N/C
2000'	7000'	LSND/Polymer	8.8-9.5	Less than 6

This well will be drilled utilizing a “closed loop” system – no reserve pit will be used. All drill cuttings will be hauled from the location to a permitted waste facility. All remaining fluids will be utilized for completion operations or hauled to a permitted disposal facility.

While drilling the surface hole, pump gel/lime sweeps to clean the hole.

Conventional water based LSND/PHPA polymer mud will be used for the surface and production hole intervals. Maximum anticipated bottom hole temperature is 250° F. Maximum anticipated bottom hole pressure is 3031 psi.

6. EVALUATION PROGRAM

Unless otherwise directed by the company representative and/or onsite geologist, samples should be collected, dried and bagged in 30' intervals from below surface casing to 7,000'.

Wireline electric logs of the well will be run, logging suite will be a triple combo + dipole sonic.

7. CEMENTING PROGRAM

9-5/8" Surface Casing

Casing equipment will include a float shoe, float collar and bow spring centralizers (bottom three joints and every third joint to surface). Tack weld, strap, or Baker-lock both ends of the bottom two casing collars and float shoe.

Lower the casing slowly to avoid excessive surge pressure. Monitor mud volumes throughout the job. Pump cement through the shoe at greater than 5 BPM.

This cementing program may be altered if dictated by the availability of additional data prior to the job.

SPACER	40 bbls of water
LEAD SLURRY TYPE:	SLB Conventional with .25 pps cellophane flakes
SLURRY WEIGHT	12.5 ppg
YIELD	2.11 cu ft/sk

MIX WATER	12.11 gps
CEMENT REQUIRED	509 sx (gauge hole + 100%)
TOP OF CEMENT	Surface (1500' of fill)
TAIL SLURRY TYPE:	SLB Conventional with .25 pps cellophane flakes
SLURRY WEIGHT	13.5 ppg
YIELD	1.42 cu ft/sk
MIX WATER	6.99 gps
CEMENT REQUIRED	157 sx (gauge hole + 100% + shoe joint)
TOP OF CEMENT	1500' (500' of fill)

Note: 1.) Perform a 1" top job using a 15.8 ppg slurry formulation if the cement falls in the annulus.
 2.) Wait on cement time will be a minimum of 8 hours prior to drilling out of casing.

5-1/2" Production Casing

Casing equipment will include a float shoe, 2 shoe joints, a float collar, DV tool @ 5000' and bow spring centralizers. Place one bow spring on the bottom five joints, one per joint through all potential pay intervals, then every 5th joint to 5000', above and below DV tool and then every 5th joint to the designed cement top. This cement program may be altered if dictated by the availability of additional data prior to the job.

1st Stage Cementing:

SPACER	20 bbls water spacer
---------------	----------------------

TAIL SLURRY TYPE	SLB Conventional
SLURRY WEIGHT	14.5 ppg
YIELD	1.37 cu ft/sk
MIX WATER	5.66 gps
CEMENT REQUIRED	489 sx (caliper volume + 30% + shoe joint)
TOP OF CEMENT	5000' (2000' of fill)

2nd Stage Cementing:

SPACER	20 bbls water spacer
---------------	----------------------

TAIL SLURRY TYPE	SLB Conventional
SLURRY WEIGHT	12.5 ppg
YIELD	1.46 cu ft/sk
MIX WATER	7.09 gps

CEMENT REQUIRED	706 sx (caliper volume + 15% + Csg/Csg annulus)
TOP OF CEMENT	1000' (4000' of fill)

8. WELLHEAD EQUIPMENT

"A" Section

C-22 11" x 9-5/8" 5M SOW with two 2-1/16" FE 5M Gate Valves
 Slips: C-22 9-5/8" x 5 1/2"

9. WELL CONTROL

Note: The Drilling Contractors 5000 psi BOP stack will be utilized for the production hole interval. Below the 9-5/8" surface casing, arrange the well control system as shown on the attached Well Control Schematic. All equipment exposed to wellbore pressure will be rated at 5,000 psi or greater. The equipment will meet or exceed, and be tested, per API Guidelines and/or governmental requirements for 5,000 psi systems. The BOP and manifold arrangement and rates will be as shown in the attached diagrams.

Test pressures are as follows:

ITEM	LOW PRESSURE TEST	HIGH PRESSURE TEST
Annular	500 psi for 5 min.	2500 psi for 10 min.
Pipe Rams (against plug)	500 psi for 5 min.	5000 psi for 10 min.
Blind Rams (against plug)	500 psi for 5 min.	5000 psi for 10 min.
Casing	none required	1500 psi for 30 min.

24 hours prior notice of the BOP test will be given to the BLM and Idaho Department of Lands in order to have regulatory representatives on location to witness the pressure testing. An affidavit will be prepared and filed that attests to the successful testing of the BOP equipment.

A 3rd party BOP tester will be used for the initial BOP test; all test results will be properly charted and documented. Drill string safety valves for all drillstring tubulars will be maintained on the floor at all times. The BOP will be function tested on trips. Regular drills will be conducted with all crews for proper well control procedures and response. The BOP will be retested at 30day intervals if drilling operations continue for this time period.

PVT equipment will be utilized during all drilling operations. Mud volumes will be carefully monitored on all trips.

Well control drills will be regularly conducted while both tripping and drilling.

10.) This Drilling Program prepared by:

Jerry W. Collins
Licensed Registered Petroleum Engineer
 405 802 6533

Collins Consulting and Engineering LLC
21211 North Three Creeks Drive
Edmond, Oklahoma 73012

CASING DESIGN TABLE

CPC Minerals

Federal 18-2

Bonneville Co., Idaho

HOLE SIZE	SET To	CMT TOP	CASING SIZE	DRIFT	GRADE	WEIGHT LB/FT	CONN.	TENSION (1000 LBS.)			COLLAPSE (PSI)			BURST (PSI)		
								RATING	LOAD	S.F.	RATING	LOAD	S.F.	RATING	LOAD	S.F.

SURFACE CASING

12 1/4"	2000'	Surf	9 5/8"	8.921	J55	36	STC	394	172	2.29	2,020	1144	1.77	3,520	1048	3.36
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PRODUCTION CASING

8 3/4"	7000'	1000'	5 1/2"	4.653	P110	17	LTC	445	119	3.74	7,460	4004	1.86	10,640	7000	1.52
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SURFACE CASING NOTES:

BURST DESIGN is based on a 12 ppg fracture gradient at the shoe and a gas gradient of .1 psi/ft.

COLLAPSE DESIGN is based on 11 ppg mud in the annulus and evacuated casing.

TENSION DESIGN is based on air weight with 100,000# overpull requirement.

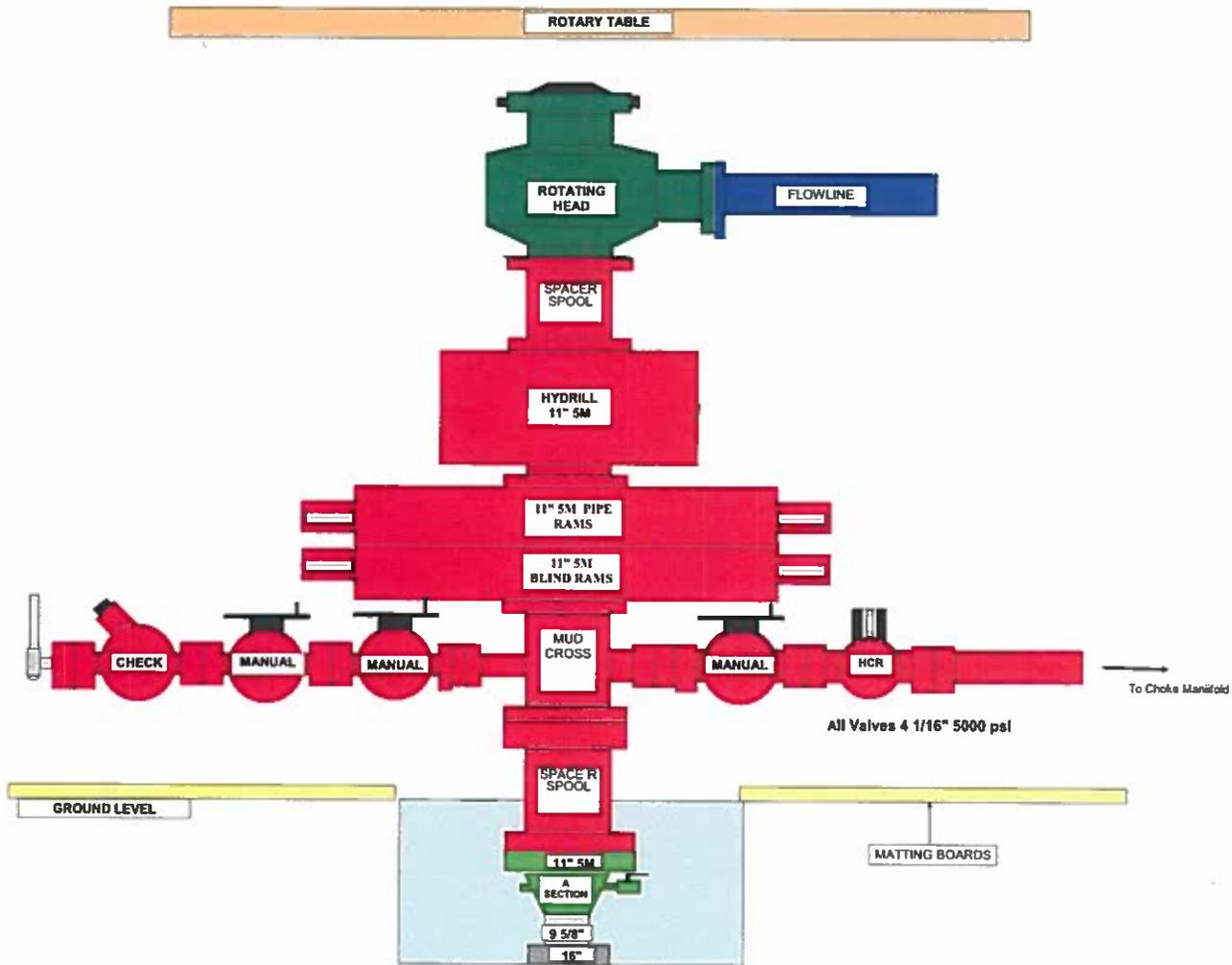
PRODUCTION CASING NOTES:

BURST DESIGN is based on a maximum surface treating pressure of 7000 psi with water gradient backup downhole.

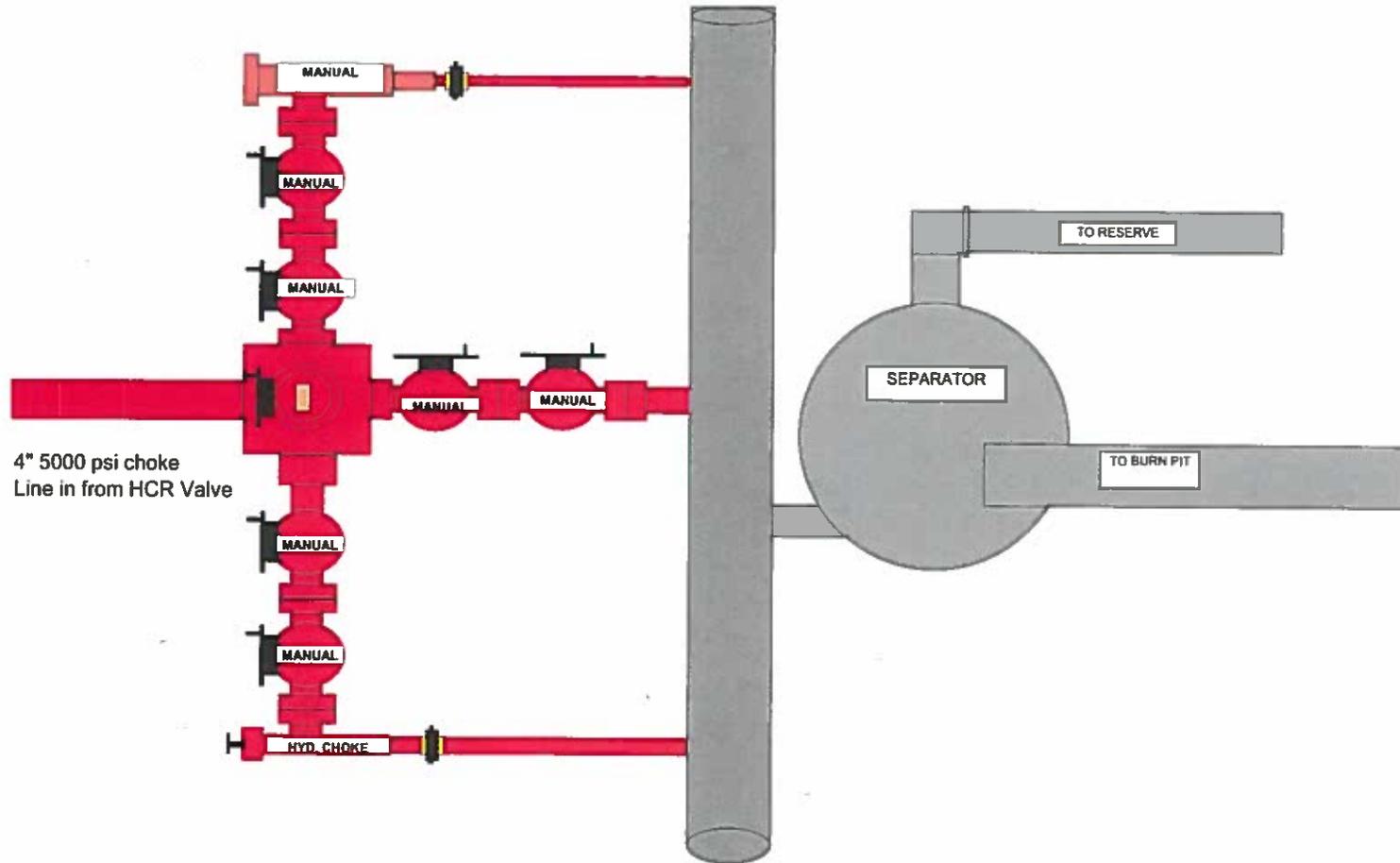
COLLAPSE DESIGN is based on 11 ppg mud in the annulus and evacuated casing.

TENSION DESIGN is based on air weight.

CPC Minerals
Federal 18-2
5000 psi BOP Stack



**Federal 18-2
Choke Manifold
All Manifold Components Rated to 5000 psi**



3" Minimum ID on all Discharge lines from choke manifold

FEDERAL 18-2 EROSION AND SEDIMENT CONTROL BMPS

X.1 Minimize Disturbed Area and Protect Natural Features and Soil

Excavated soils will be utilized to support site grading at or near their original locations. A soils investigation shows that 1-3 feet of topsoil is present over the majority of areas in which construction activities will be performed. The near surface soils at the site are dry, largely consisting of silty fine sand with clay or clayey sand. Because of generally good vegetative cover at the site, the wind erosion potential of the onsite topsoil is low. Moreover, because of the gentle-sloping topography at the site, the water erosion potential of the onsite topsoil is also low. During construction, routes of travel will be established to limit vehicle and equipment disturbance of soils. The following paragraphs provide additional detail to the means that will be used for specific aspects of construction at the site.

SITE PREPARATION AND ROAD CONSTRUCTION:

Site access roads and maintenance roads will be constructed at/near existing grade as much as possible. Subgrade preparation for road construction will consist of clearing/grubbing near surface vegetation (mainly comprised of grasses/brush) and compaction of exposed native soils prior to pavement of gravel. This area will be cleared and grubbed first and then approximately 4 inches of soil will be bladed uniformly across the area. After spreading, the area will be minimally compacted (80% to 90% proctor maximum density, ASTM 01557). Exposed native soils will be kept moist by applying water or other stabilization practices to guard against dust generation.

X.2 Phase Construction Activity

Phase I- SITE PREPARATION

- Clearing and grubbing of existing vegetation in work areas
- Grading and compaction of pad
- Construction of drainage system
- Spreading and compacting extra soil over un-used area within the project boundaries
- Duration of phase: TBD
- Start Date: TBD

X.3 Control Storm Water Flowing onto and through the Project

<i>BMP Description:</i> Divert natural drainage around or through working areas, particularly pads and roads; Armor concentrated flow areas and install hay bales as necessary to reduce flow rates and sediment transport.	
<i>Installation Schedule:</i>	Construct in conjunction with first vertical lifts
<i>Maintenance and Inspection:</i>	Inspect every 14 calendar days and within 24 hours after significant storm event (0.5 inches or greater) during construction. See Section 5.
<i>Responsible Staff:</i>	Construction manager or delegate of manager

X.4 Stabilize Soils

As a temporary soil stability measure, exposed native soils resulting from surface disturbance will be kept moist by applying water or other stabilization practices. Permanent soil stabilization will be accomplished through re-vegetation generally performed in fall.

<i>BMP Description: Interim Seeding</i>	
<input checked="" type="checkbox"/> <i>Permanent</i> <input type="checkbox"/> <i>Temporary</i>	
<i>Installation Schedule:</i>	Perform annually (fall) to areas disturbed during previous 12 months.
<i>Maintenance and Inspection:</i>	14 calendar days and within 24 hours after a rain event.
<i>Responsible Staff:</i>	Construction manager or delegate of manager

<i>BMP Description: Traffic Control</i>	
<input checked="" type="checkbox"/> <i>Permanent</i> <input type="checkbox"/> <i>Temporary</i>	
<i>Installation Schedule:</i>	Stabilize access points to be constructed (see Section 2.9), establish traffic patterns and routes to limit disturbance of soils to approved roadways.
<i>Maintenance and Inspection:</i>	Continuous during construction and operation of facility
<i>Responsible Staff:</i>	Construction manager or delegate of manager

X.5 Protect Slopes

Naturally, the site is generally flat with an overall slope of 0.9%. There are no steep slopes at the site or adjacent areas. However, due to the construction of proposed retention ponds and drainage swales, 33% (3:1) to 17% (6:1) side slopes will be created associated with the ponds and swales. Temporary slope protection for these ponds and swales will be achieved through the use of chemical dust suppressants or straw bales. Transportation of fine sediment will be limited through the use of silt fencing where necessary, and/or applying water or other stabilization practices when necessary. Even without any BMPs, no sediment would migrate offsite during any ½" per hour precipitation event due to the relatively flat nature of the site. Permanent slope protection will be accomplished through re-vegetation generally performed in the fall.

<i>BMP Description:</i> Establish vegetation on slopes, seeding will only be successful if performed in the fall. Native seed mix will be used.	
<i>Installation Schedule:</i>	Annually – fall
<i>Maintenance and Inspection:</i>	monthly after seeding
<i>Responsible Staff:</i>	Construction manager or delegate of manager

BMP Description: Utilize roads as drainage breaks, construct ditches to carry concentrated flows to retention ponds.

Installation Schedule:	Construct during site preparation
Maintenance and Inspection:	Inspect every 14 calendar days and within 24 hours after significant storm event (0.5 inches or greater) during construction.
Responsible Staff:	Construction manager or delegate of manager

BMP Description: Straw bales on slopes to retard surface flows, capture sediment

Installation Schedule:	Construct as necessary during earthwork
Maintenance and Inspection:	Inspect every 14 calendar days and within 24 hours after significant storm event (0.5 inches or greater) during construction.
Responsible Staff:	Construction manager or delegate of manager

X.6 Protect Storm Drain Inlets

Owing to the remote location of the site, there are no constructed storm drains in the area. Surface flows from the site will be transmitted into retention ponds. Silt fencing and straw bales will be used in constructed channels when necessary.

X.7 Establish Perimeter Controls and Sediment Barriers

BMP Description: Place series of straw bales in channels leading to site water exits, place bales as needed to control sediment transport.

Installation Schedule:	Prior to construction, during construction and after construction as needed.
Maintenance and Inspection:	Inspect every 14 calendar days and within 24 hours after significant storm event (0.5 inches or greater) during construction.
Responsible Staff:	Construction manager or delegate of manager

X.8 Retain Sediment Onsite

The total disturbed area of the project (including road construction) is approximately 4 acres. Relatively flat drainage paths will limit flow velocities and generation of sediment by overland flows. Loose soils from construction will be temporarily stabilized using straw bales when necessary. Silt fencing will be used to limit transport of sediment from construction areas to offsite drainages when necessary. Straw bales will be placed periodically within drainage paths perpendicular to the direction of flow as additional means to retard flow and allow for deposition of sediment onsite when necessary.

X.9 Activity Schedule

To be determined in the future once construction schedule for the project has been finalized. At that time the activity schedule can be provided.

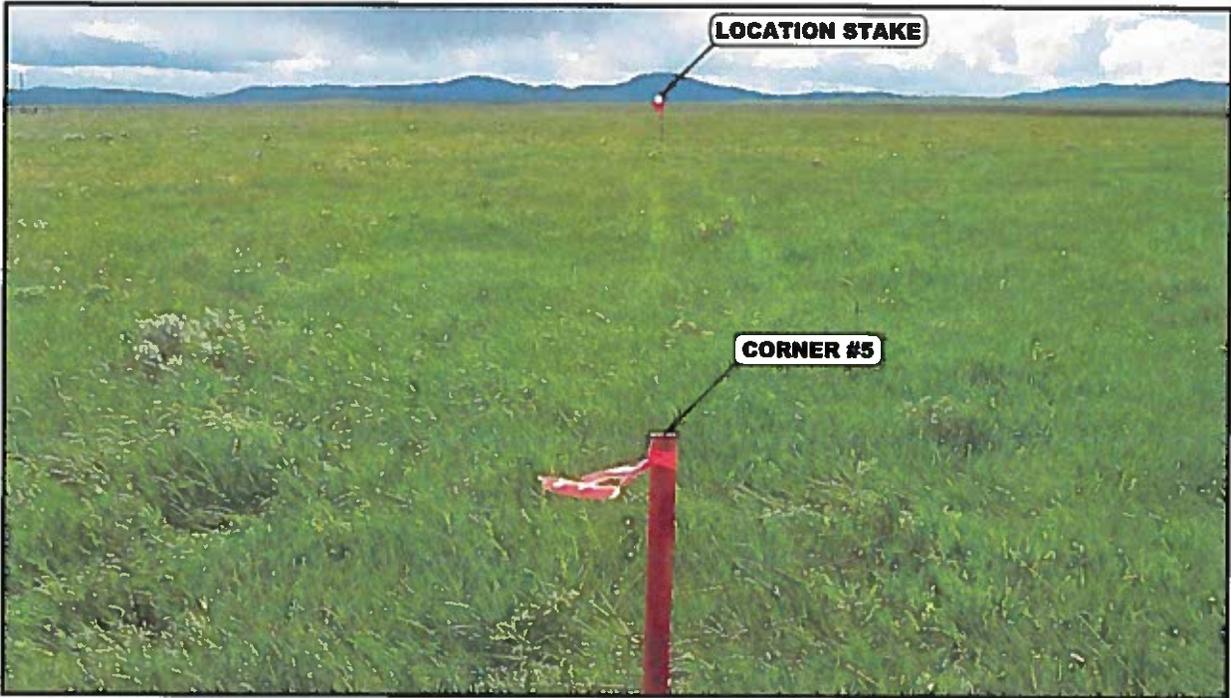


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY

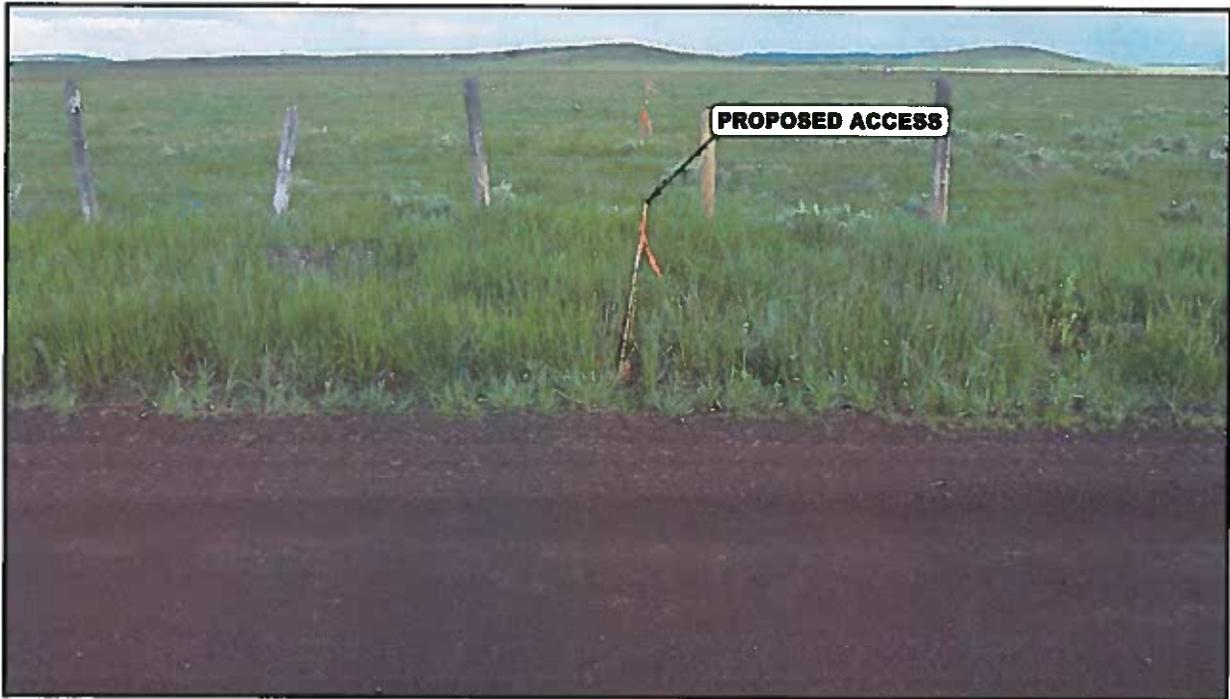


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY

REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

CPC Mineral LLC

Federal #18-2

650' FSL 460' FEL

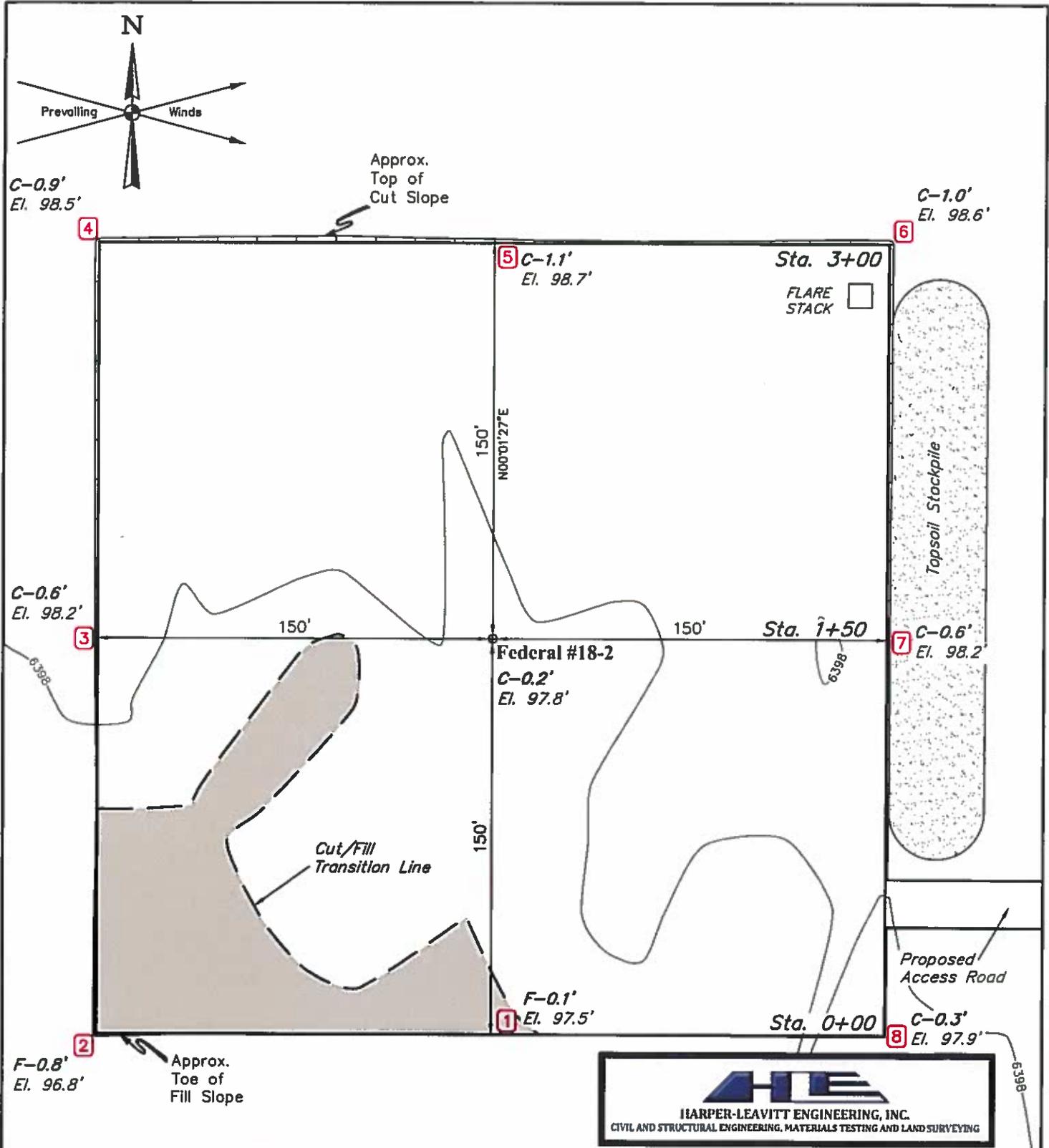
SE 1/4 SE 1/4, SECTION 18, T3S, R43E, BOISE MERIDIAN
BONNEVILLE COUNTY, IDAHO

TAKEN BY	B.H., B.J.	06-13-16	
DRAWN BY	C.D.L.	06-15-16	
LOCATION PHOTOS		PHOTO	



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SURVEYING, ENGINEERING, METEOROLOGICAL AND LAND USE SERVICES



HE
HARPER-LEAVITT ENGINEERING, INC.
 CIVIL AND STRUCTURAL ENGINEERING, MATERIALS TESTING AND LAND SURVEYING

FINISHED GRADE ELEVATION = 6397.6'

REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

- NOTES:**
- Flare Stack is to be located a min. of 100' from the wellhead.
 - Contours shown at 2' intervals.
 - Cut/Fill slopes 1 1/2:1 (Typ.).

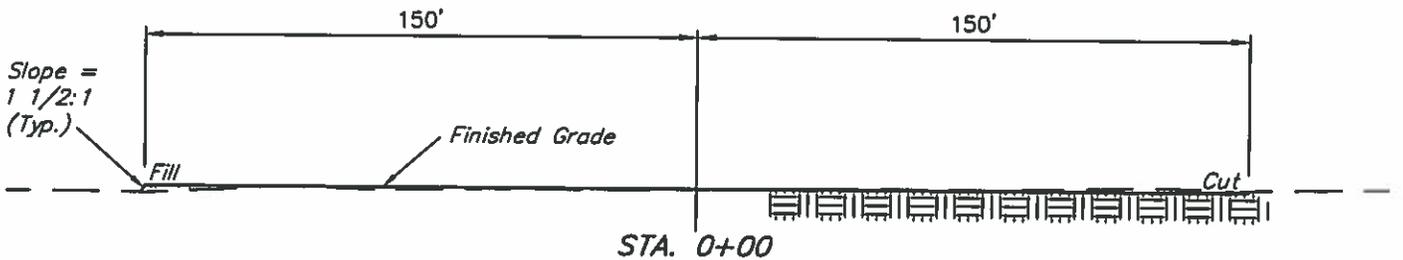
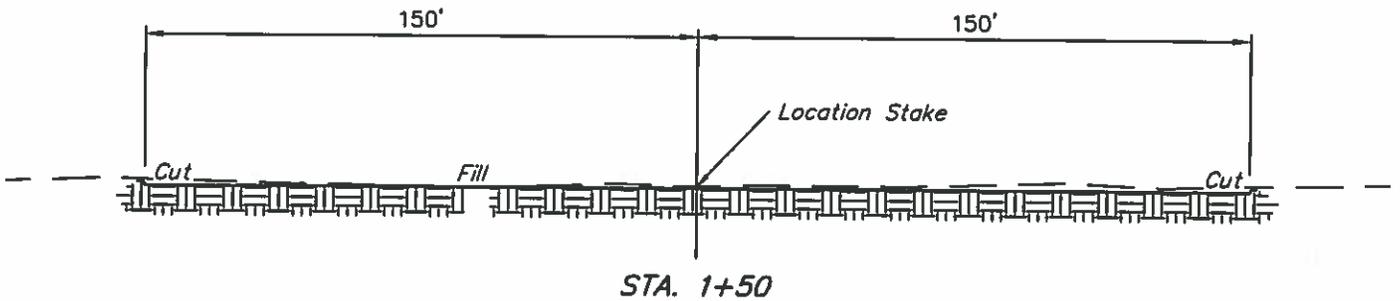
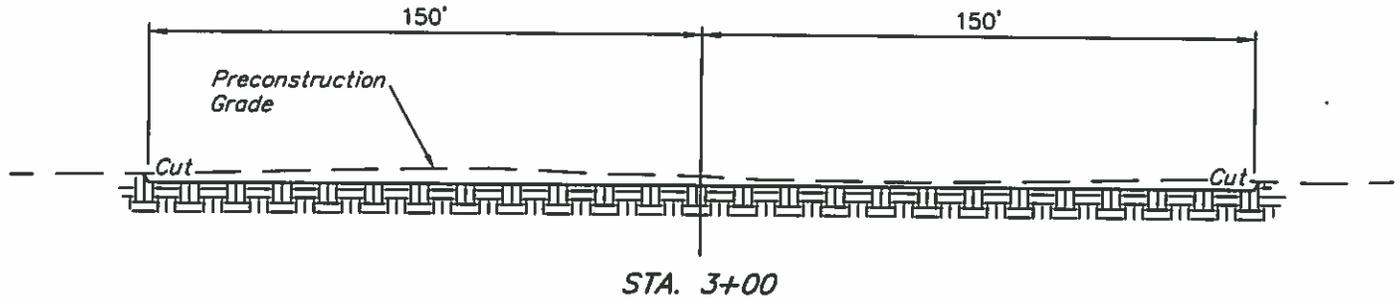
CPC Mineral LLC
Federal #18-2
650' FSL 460' FEL
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BONNEVILLE COUNTY, IDAHO

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SURVEYED BY	BART HUNTING, B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1" = 50'
CONSTRUCTION LAYOUT		FIGURE #1	

1" = 20'
 X-Section
 Scale
 1" = 50'



APPROXIMATE EARTHWORK QUANTITIES	
(6") TOPSOIL STRIPPING	1,690 Cu. Yds.
REMAINING LOCATION	590 Cu. Yds.
TOTAL CUT	2,280 Cu. Yds.
FILL	590 Cu. Yds.
EXCESS MATERIAL	1,690 Cu. Yds.
TOPSOIL	1,690 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±2.269
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±328'	±0.226
TOTAL SURFACE USE AREA		±2.495



REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

NOTES:

- Fill quantity includes 5% for compaction.
- Calculations based on 6" of topsoil stripping.
- Cut/Fill slopes 1 1/2:1 (Typ.).

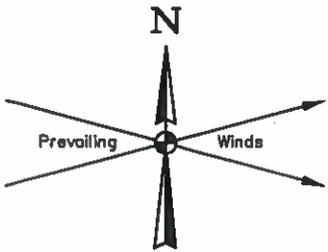


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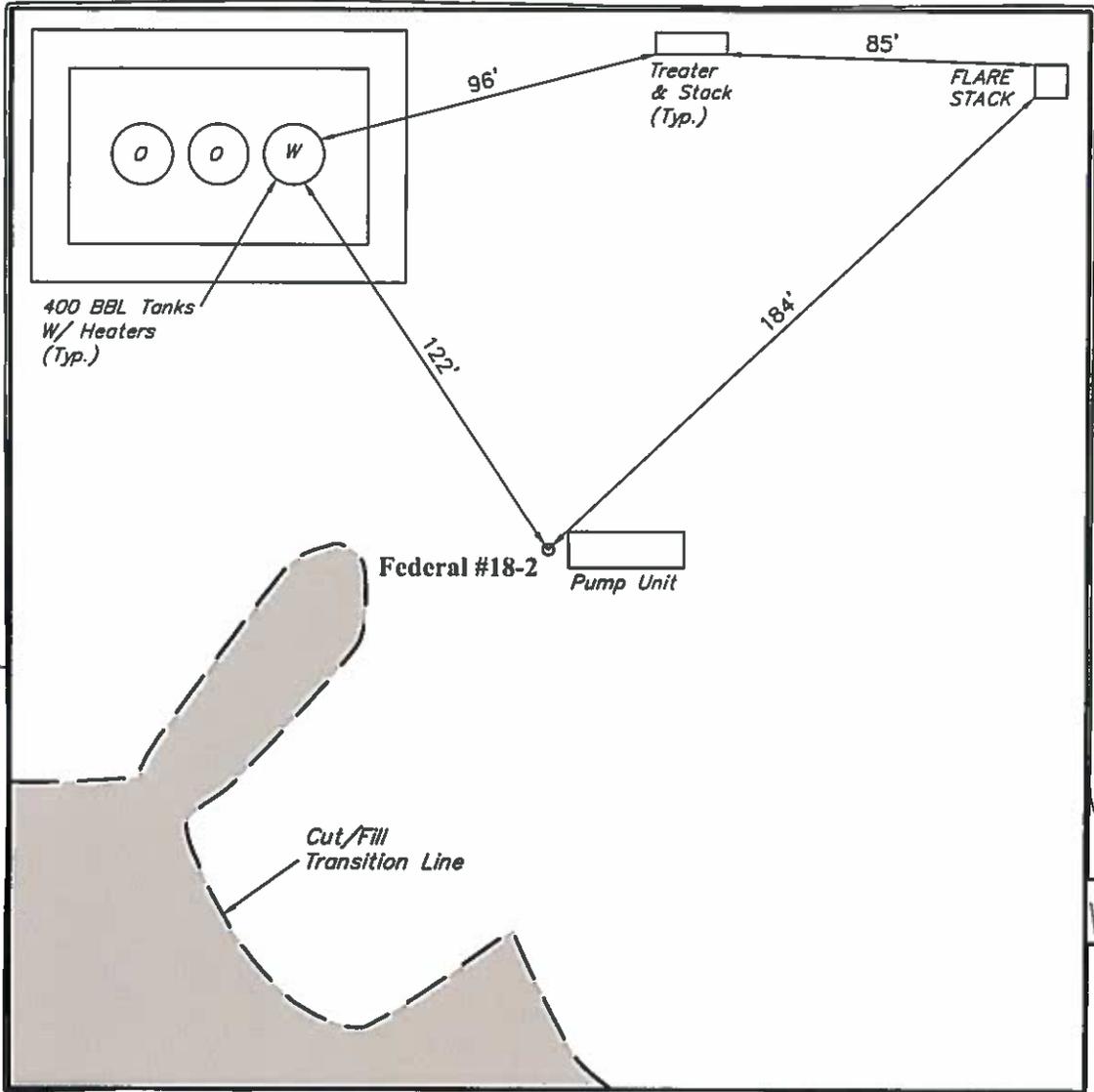
CPC Mineral LLC

Federal #18-2
 650' FSL 460' FEL
 SE 1/4 SE 1/4, SECTION 18, T3S, R43E, BOISE MERIDIAN
 BONNEVILLE COUNTY, IDAHO

SURVEYED BY	BART HUNTING, B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	AS SHOWN
CONSTRUCTION LAYOUT CROSS SECTIONS FIGURE #2			



Approx.
Top of
Cut Slope



LEGEND:

Reclaimed Area

Approx.
Toe of
Fill Slope



APPROXIMATE UN-RECLAIMED ACREAGE = ±2.269 ACRES
 APPROXIMATE RECLAIMED ACREAGE = ±0.000 ACRES
 TOTAL ACREAGE = ±2.269 ACRES

NOTES:

- Contours shown at 2' intervals.

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SURVEYED BY	BART HUNTING, B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1" = 50'

INTERIM RECLAMATION PLAN FIGURE #4



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PROCEED IN A NORTHERLY, THEN NORTHEASTERLY, THEN NORTHERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM GRAY, IDAHO ALONG GRAYS LAKE ROAD APPROXIMATELY 8.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 328' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM GRAY, IDAHO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 9.9 MILES.

REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

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650' FSL 460' FEL

SE 1/4 SE 1/4, SECTION 18, T3S, R43E, BOISE MERIDIAN
BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	
DRAWN BY	C.D.L.	06-15-16	

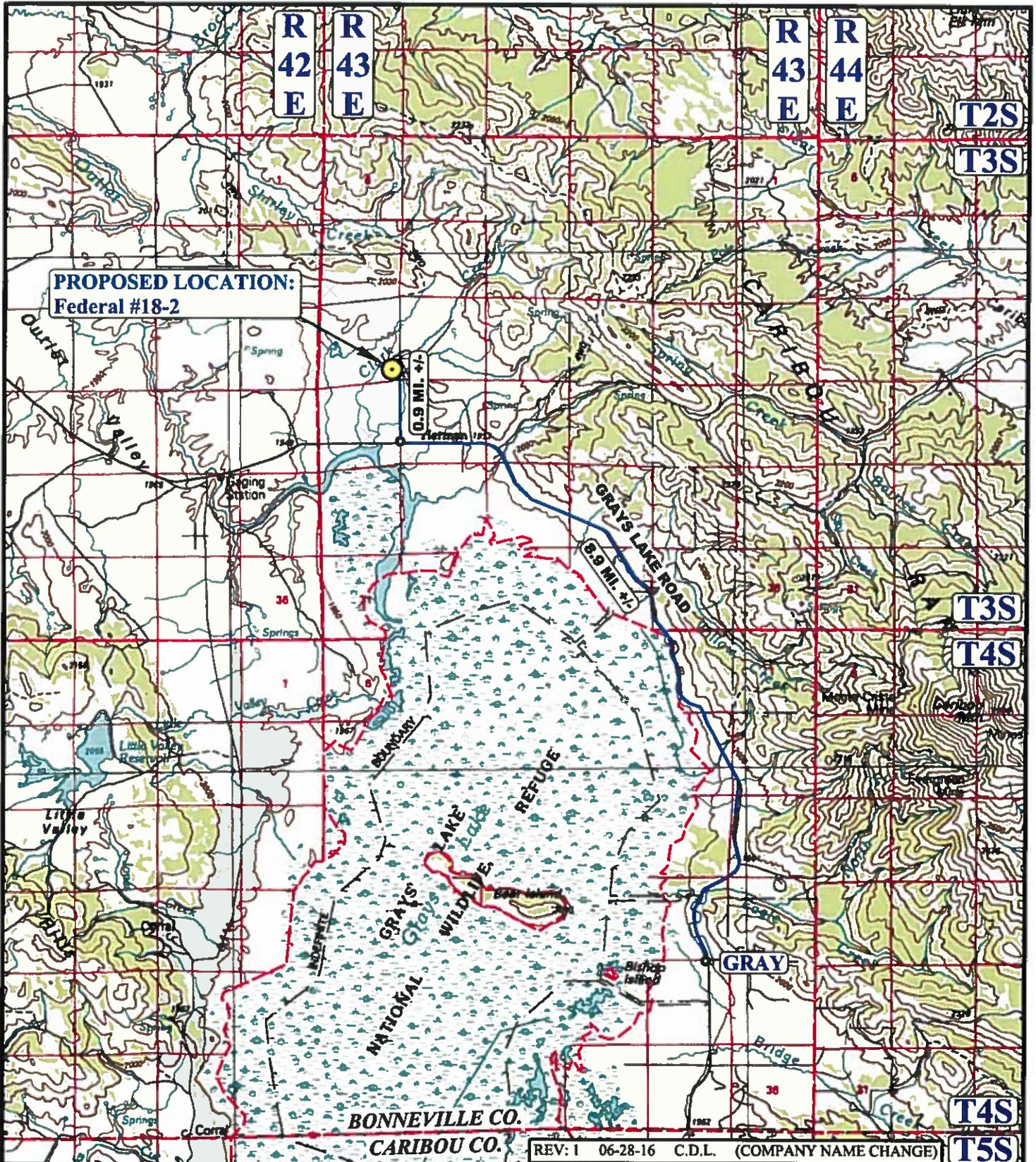
ROAD DESCRIPTION



HARDEN CLAFFETT ENGINEERING, INC.
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REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

LEGEND:

 PROPOSED LOCATION



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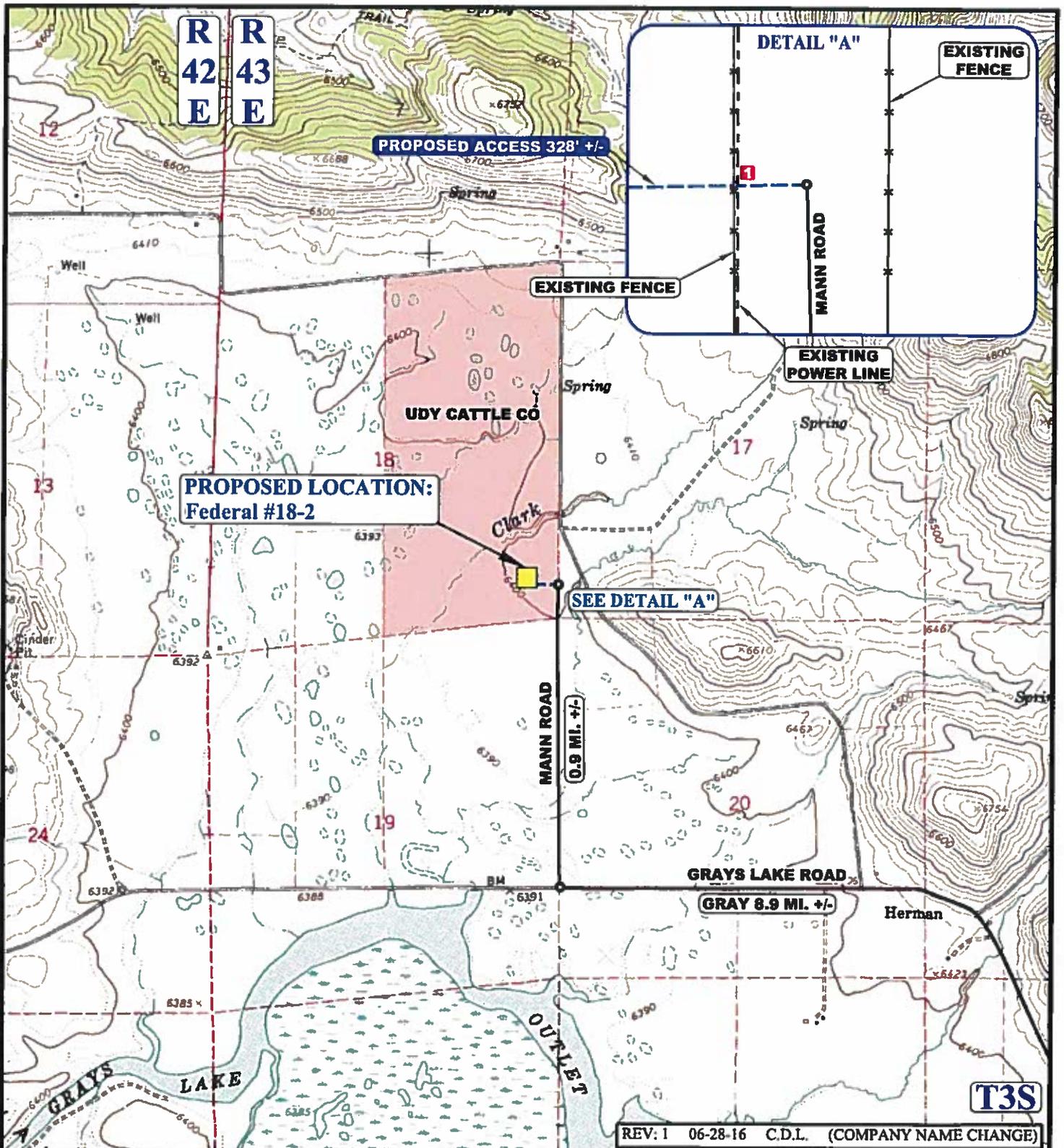


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Federal #18-2
 650' FSL 460' FEL
 SE 1/4 SE 1/4, SECTION 18, T3S, R43E, BOISE MERIDIAN
 BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1:100,000

ACCESS ROAD MAP TOPO A



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD
 PROPOSED ROAD
 EXISTING FENCE
 EXISTING POWER LINE
1 INSTALL CATTLE GUARD

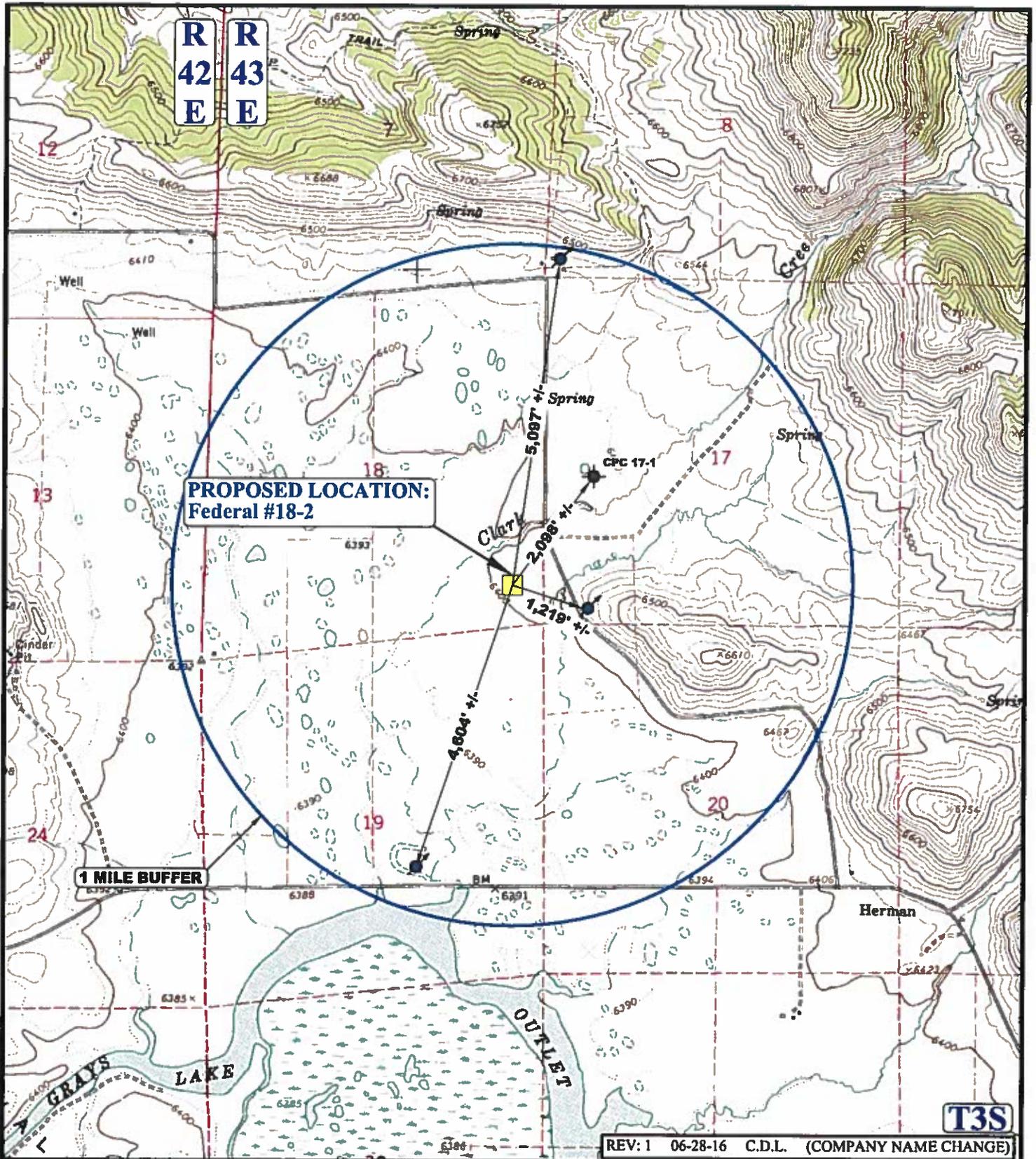
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650' FSL 460' FEL
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SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1 : 24,000
ACCESS ROAD MAP			TOPO B



**PROPOSED LOCATION:
Federal #18-2**

1 MILE BUFFER

REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED
- CONFIDENTIAL
- WATER WELLS



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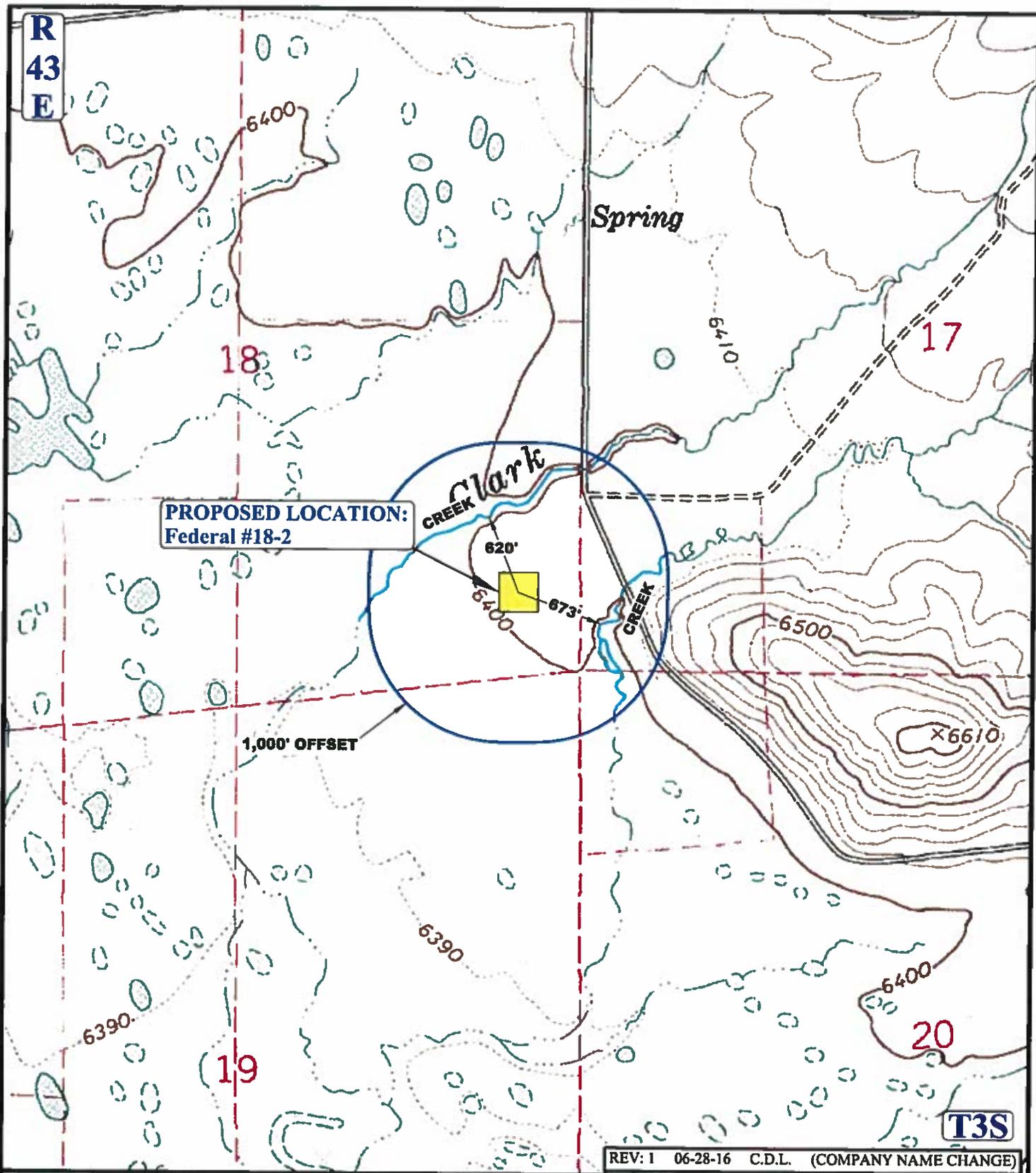


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SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1 : 24,000

WELL PROXIMITY MAP TOPO C



REV: 1 06-28-16 C.D.L. (COMPANY NAME CHANGE)

LEGEND:

- EXISTING DRAINAGE
- 1000' OFFSET BOUNDARY



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SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-15-16	1 : 6,000

HYDROLOGY MAP TOPO W

Federal 18-2 Reclamation Plan

Reclamation will be conducted in accordance with IDAPA 20.07.02.510. CPC Minerals/Energy Summit Resources has obtained a Surface Use Agreement with the landowner of the proposed location. The Surface Use Agreement will ensure the site is left in a stable, re-vegetated, non-eroding condition as required.

Interim Reclamation

- All cellars, rat holes and other bore holes at drilling locations unnecessary for further lease operations would be back-filled to conform to surrounding terrain after the drilling rig is released.
- The well location and surrounding areas(s) would be cleared of all debris, materials, and trash not required for production. Waste materials would be disposed of at an appropriate disposal facility.
- Areas not necessary for production and future workovers would be reshaped to resemble the original landscape contour. Stockpiled topsoil would be redistributed and disked on the area to be reclaimed and re-seeded.
- Interim reclamation of that portion of the well pads and access roads not needed for production facilities/operations would be reclaimed within 6 months from the date of well completion, weather permitting. In the event that subsequent drilling operations would be commenced on a location within 12 months, temporary (pre-interim) reclamation would be performed to stabilize the location and minimize dust and erosion to the extent practicable. Interim revegetation/reseeding would take place at the first growing season available from the date of well completion. Dry/non-producing well locations would be plugged, abandoned and reclaimed within 6 months of well completion, weather permitting.

Dry Hole/Final Reclamation

- All surface disturbances would be recontoured and revegetated according to Idaho Administrative Code Section 510 on Surface Reclamation.
- Any gravel used in building the drilling pad or access road shall be reclaimed.
- All access roads to plugged and abandoned wells and associated production facilities shall be ripped, regraded, and recontoured unless otherwise specified in a surface use agreement. Culverts and any other obstructions that were part of the access road(s) shall be removed. Roads to be left will be graded to drain and prepared with rolling dips or other best management practices to minimize erosion.
- Drill pads, pits, berms, cut and fill slopes, and other disturbed areas will be regraded to approximate the original contour. Where possible, slopes should be reduced to three (3) horizontal feet to one (1) vertical foot (3H:1V) or flatter.
- All areas compacted by drilling and subsequent oil and gas operations that are no longer needed following completion of such operations shall be cross-ripped. Ripping shall be undertaken to a depth of eighteen (18) inches or bedrock, whichever is reached first.