

**CPC Mineral LLC**

4244 W Sandalwood Dr.  
Cedar Hills, UT 84062

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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 20-3 Updated Application for Permit to Drill  
SENW of Section 20, 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 updates to CPC Mineral LLC's application for permit to drill the Federal 20-3 oil well. The following revisions to the application's supporting exhibits are included per the IDL's request.

- 1) Copy of the updated Bond Application with the correct state of incorporation and year of application
- 2) Updated mineral lease map showing the seismic profiles and hydrocarbon boundaries.

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

Sincerely,

*Crissy Ventura*

**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](mailto:cventura@progressivepcs.net)

Enclosures:

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

# CPC Mineral LLC

4244 W Sandalwood Dr.  
Cedar Hills, UT 84062

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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 20-3 Updated Application for Permit to Drill  
SENW of Section 20, 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 an updated application for permit to drill the proposed Federal 20-3. Please note, the proposed well location has been moved 50 feet to the west from what was submitted on the original application. 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
- 6) Unit Boundary Map and Mineral Lease Map for the proposed exception location
- 7) Certification that the surface use agreement has been executed
- 8) Updated Drilling Prognosis to reflect correct elevations for the formation tops

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

Enclosures:

**CPC Mineral LLC**

Idaho Oil and Gas Conservation Commission

Application for Permit to Drill

Federal 20-3

SENW, Section 20, T3S, R43E

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



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 Ventura Email Address: cventura@progressivepcs.net

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

DESCRIPTION OF WELL AND LEASE

Name of Lease: Federal Well Number: 20-3 Elevation (ground): 6396'

Well Location: Section: 20 Township: 3S Range: 43E (or block and survey)

(Give footage from Section lines): 2574' FNL, 1930' FWL

Latitude/Longitude (Dec Degrees): 43.144406 /-111.444444 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 8.9 miles NW from Gray, Idaho

Nearest distance from proposed location to property or lease line: 660' to the nearest lease 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: Oct. 2016 Number of acres in lease(s): 2,153

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 Todd C. Morris Phone: 208-785-6449

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)

DEPT. 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 Stamp

Approval Date: Approved by: Signature and Title

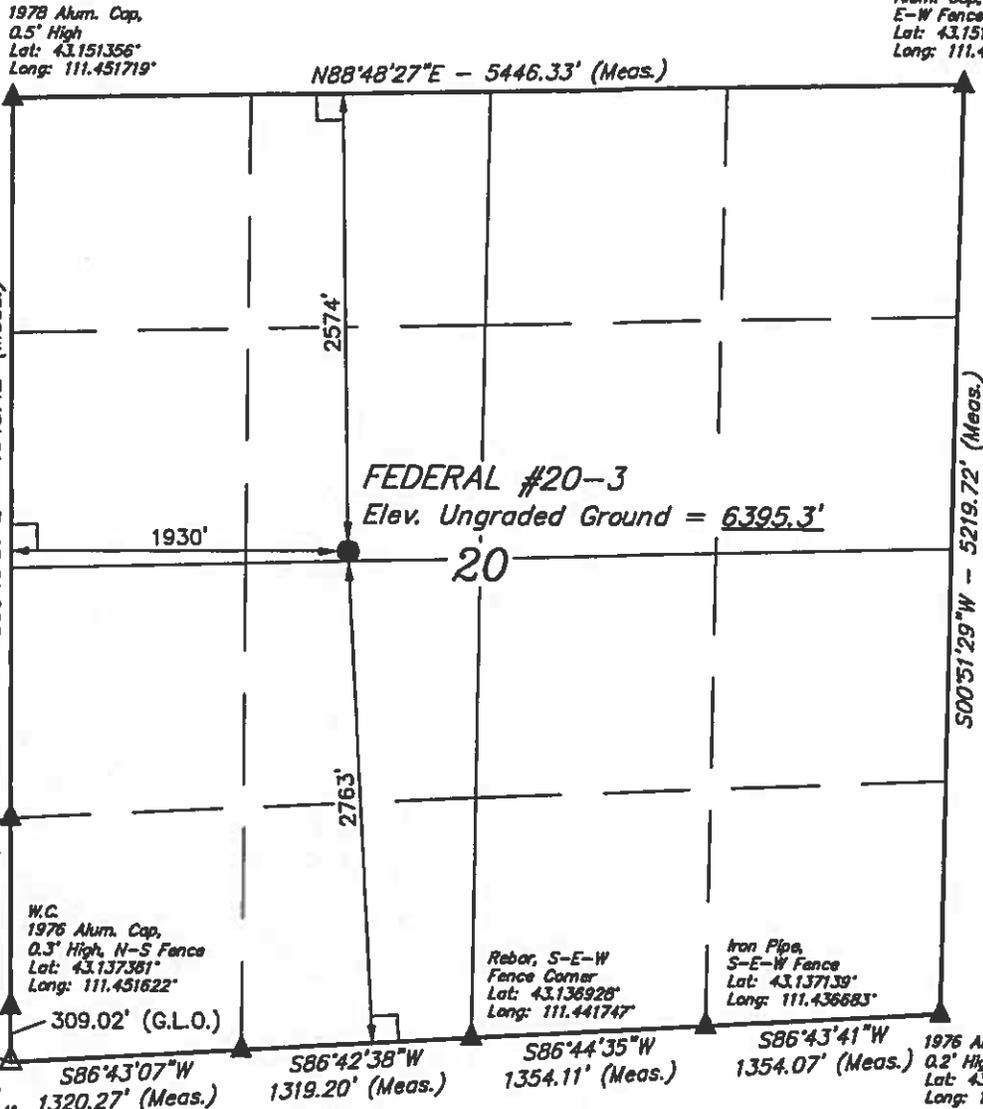
US Well Number: Operator Number (if known):

**LEGEND:**

- 90° SYMBOL
- - PROPOSED WELLHEAD.
- ▲ - SECTION CORNERS LOCATED. (NAD 83)
- △ - SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.) (NAD 83)

**T3S, R43E, BOISE MERIDIAN**

Alum. Cap, 0.3' High  
E-W Fence  
Lat: 43.151664°  
Long: 111.431322°



Iron Pipe, S-E Fence Corner  
Lat: 43.140261°  
Long: 111.451644°

500'20'29"E  
1365.94'  
(Meas. To True)  
500'20'29"E  
1056.92'  
(Meas. To W.C.)

W.C.  
1976 Alum. Cap,  
0.3' High, N-S Fence  
Lat: 43.137361°  
Long: 111.451622°

Rebar, S-E-W  
Fence Corner  
Lat: 43.138926°  
Long: 111.441747°

Iron Pipe,  
S-E-W Fence  
Lat: 43.137139°  
Long: 111.436683°

True Position  
Lat: 43.136514°  
Long: 111.451614°

S86°43'07"W  
1320.27' (Meas.)

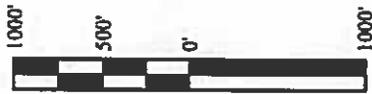
S86°42'38"W  
1319.20' (Meas.)

S86°44'35"W  
1354.11' (Meas.)

S86°43'41"W  
1354.07' (Meas.)

1976 Alum. Cap,  
0.2' High, Steel Post  
Lat: 43.137350°  
Long: 111.431619°

1978 Alum. Cap,  
0.4' High, S-E  
Fence Corner  
Lat: 43.136722°  
Long: 111.446678°



<b>NAD 83 (SURFACE LOCATION)</b>	
LATITUDE = 43°08'39.86" (43.144406)	
LONGITUDE = 111°26'40.00" (111.444444)	
<b>NAD 27 (SURFACE LOCATION)</b>	
LATITUDE = 43°08'40.16" (43.144489)	
LONGITUDE = 111°26'37.19" (111.443664)	

PDOP = 1.4



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF FIELD SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 12224  
STATE OF IDAHO

REV: 3 08-19-16 C.D.L. (NAME CHANGE & SIIL MOVE)

**BASIS OF BEARINGS**  
BASIS OF BEARINGS IS A G.P.S. OBSERVATION  
**BASIS OF ELEVATION**  
BENCH MARK (E45) 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.



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



**CPC Mineral LLC**  
**FEDERAL #20-3**  
**SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN**  
**BONNEVILLE COUNTY, IDAHO**

SURVEYED BY	BART HUNTING, B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	1" = 1000'
<b>WELL LOCATION PLAT</b>			

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

**SURFACE OWNER IDENTIFICATION**

Federal or Indian Lease No. IDI-35687  
Well(s) Number and Location Federal 20-3  
SENW, Sec 20, T3S, R43E, 2574' FNL & 1930' FWL

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: Todd C. Morris

Surface Owner Address: 351E 300 N, Blackfoot, ID 83221

Surface Owner Phone Number: (208) 785-6449

Signed this 17<sup>th</sup> - day of August, 2016

CPC Mineral LLC  
(Name of lessee/operator)

  
\_\_\_\_\_  
Philip Clegg  
Managing Member

## CPC Mineral LLC - Exception Location Request

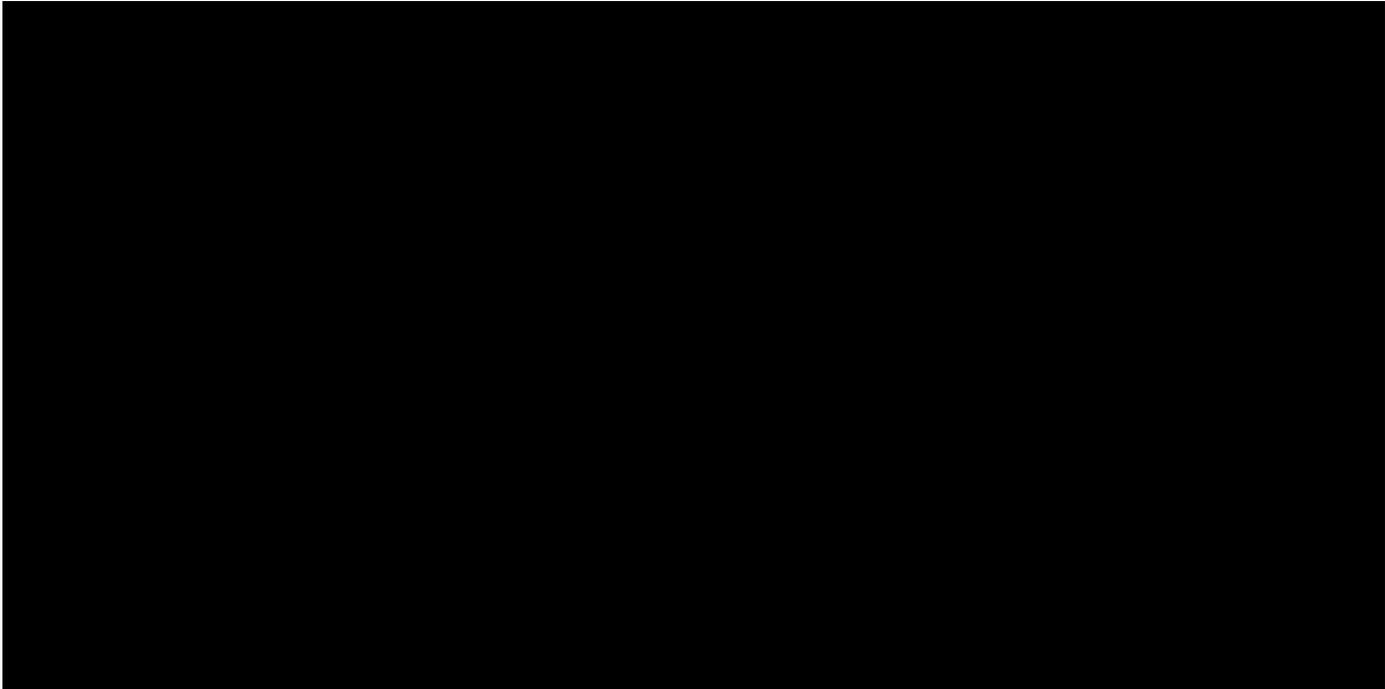
Well Name: Federal 20-3

Location: SENW of Section 20, T3S, R43E, Bonneville, Idaho

Per Idaho Administrative Code (Section 120.04), CPC Mineral LLC (CPC) is proposing a location exception for the proposed oil well the Federal 20-3. The precise location of the proposed well has been chosen to obtain the best possible results based on seismic and proprietary technology data available. CPC is requesting a location exception for the following surface and geological reasons.

The relief requested for the Federal 20-3 well at the proposed surface location 2574 feet from the north line and 1930 feet from the west line of Section 20, Township 3South, Range 93E is optimal in order to reach the full potential reserves based on the seismic data ran on the previous 17-1 well. Additionally, the surface hole location of the well lies on private land. The operator is currently working with the surface owner, Todd Morris, in order to execute a surface use agreement which will include his consent of the proposed well's location.

Seismic Data **CONFIDENTIAL**: CPC Mineral LLC requests all seismic data included in this application to be kept confidential.



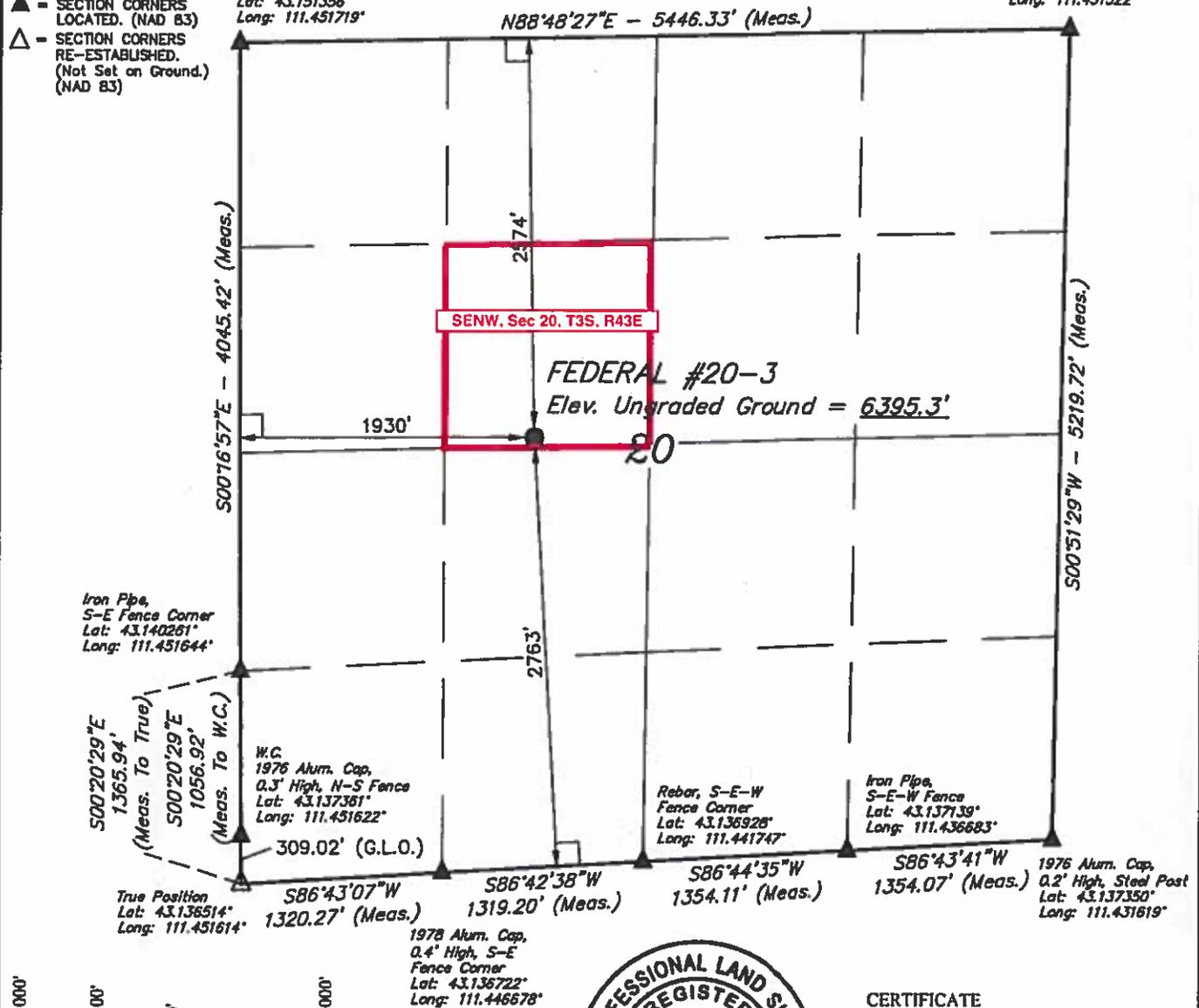
# Proposed Drilling Unit

**LEGEND:**

- 90° SYMBOL
- - PROPOSED WELLHEAD. 1978 Alum. Cap, 0.5' High  
Lat: 43.151356°  
Long: 111.451719°
- ▲ - SECTION CORNERS LOCATED. (NAD 83)
- △ - SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.) (NAD 83)

## T3S, R43E, BOISE MERIDIAN

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<b>NAD 83 (SURFACE LOCATION)</b>	
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LATITUDE = 43°08'40.16" (43.144489)	
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PDOP = 1.4

**HARPER-LEAVITT ENGINEERING, INC.**

CIVIL AND STRUCTURAL ENGINEERING, MATERIALS TESTING AND LAND SURVEYING



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF REAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 12224  
STATE OF IDAHO

REV: 3 08-19-16 C.D.L. (NAME CHANGE & SIIL MOVE)

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Corporate Office \* 85 South 200 East  
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**CPC Mineral LLC**

**FEDERAL #20-3**  
**SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN**  
**BONNEVILLE COUNTY, IDAHO**

SURVEYED BY	BART HUNTING, B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	1" = 1000'

**WELL LOCATION PLAT**

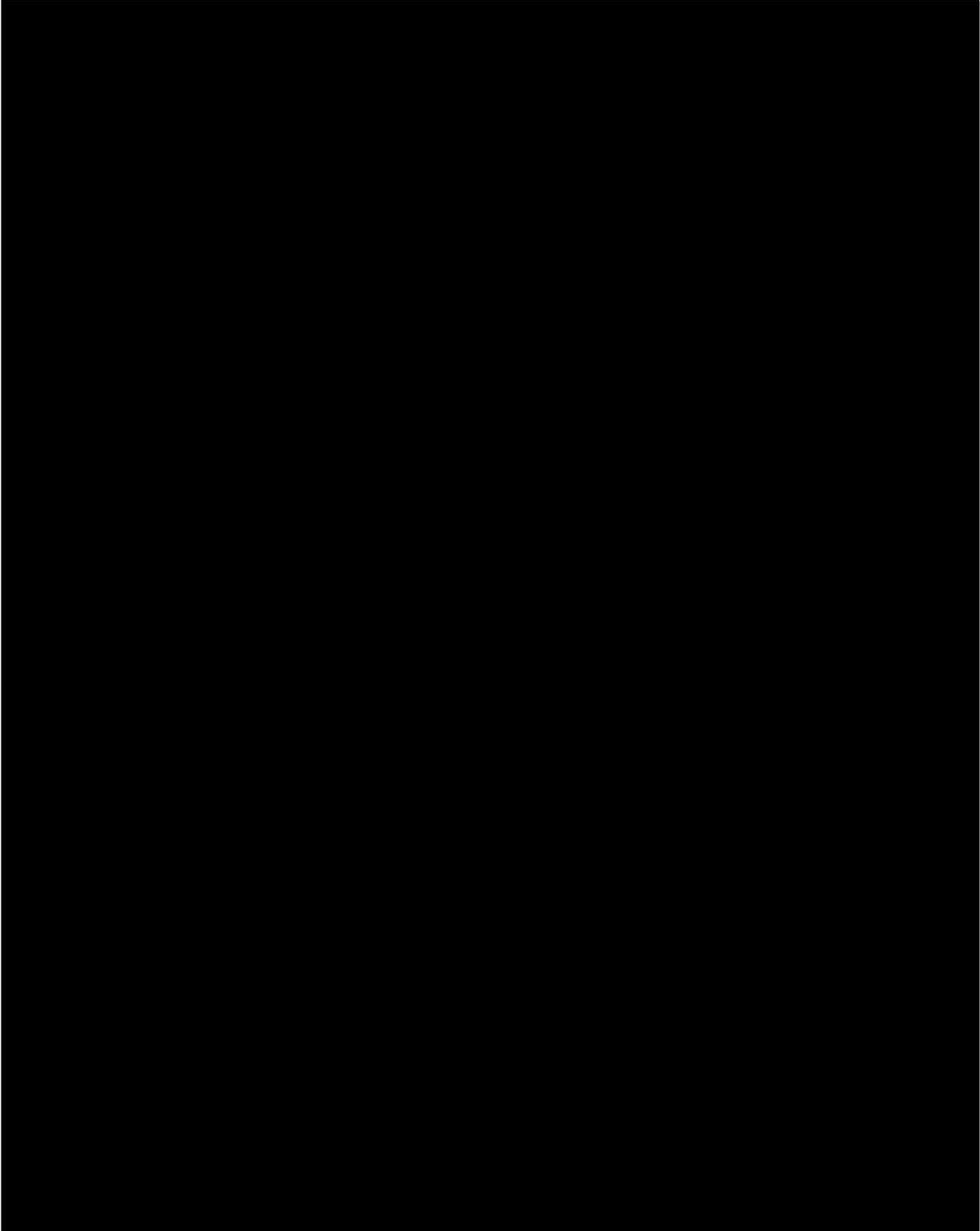
**Confidential**

# **Mineral Lease Map**

CPC Mineral, LLC

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

August 9, 2016



**CONFIDENTIAL**

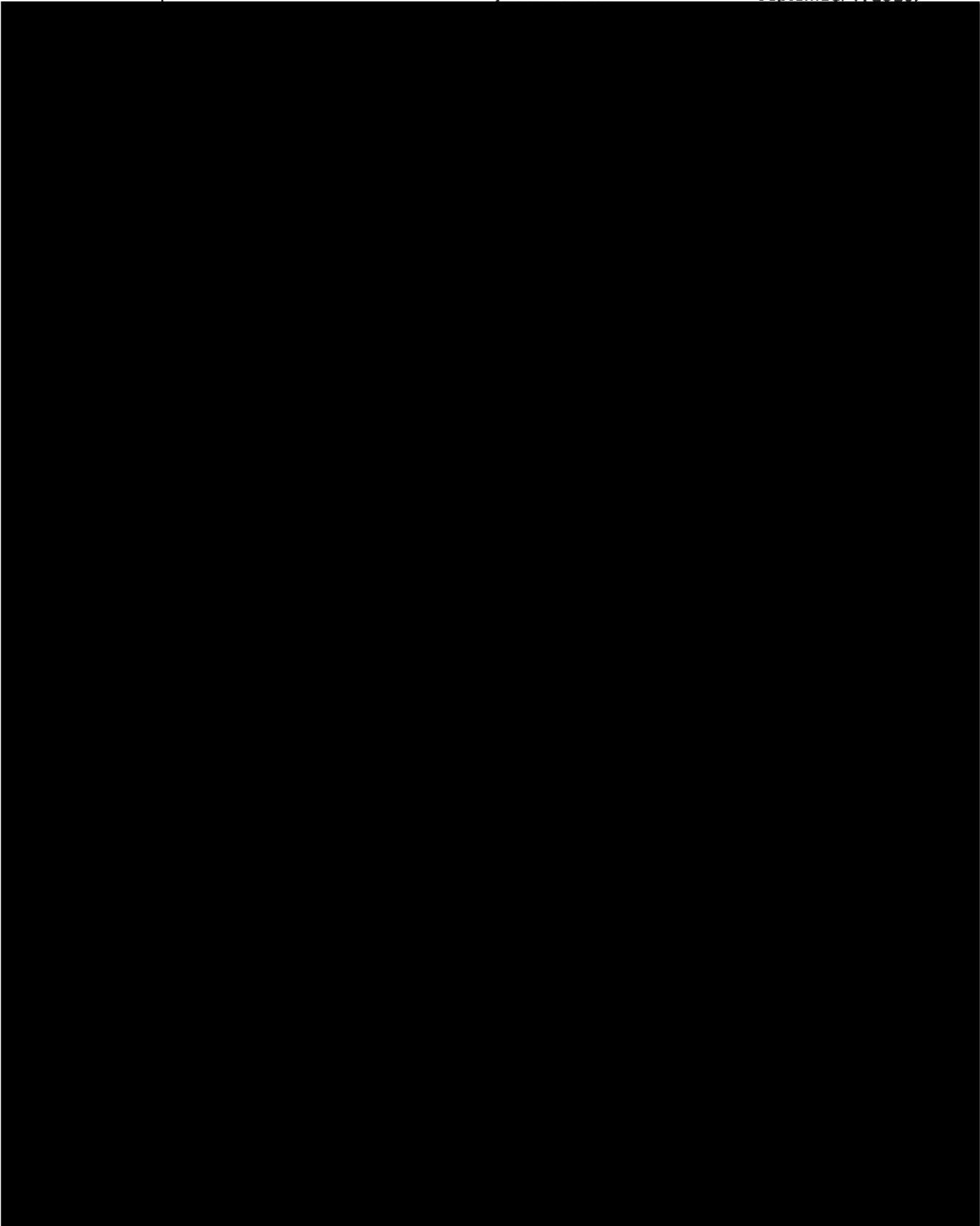
**Confidential**

# Mineral Lease Map

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

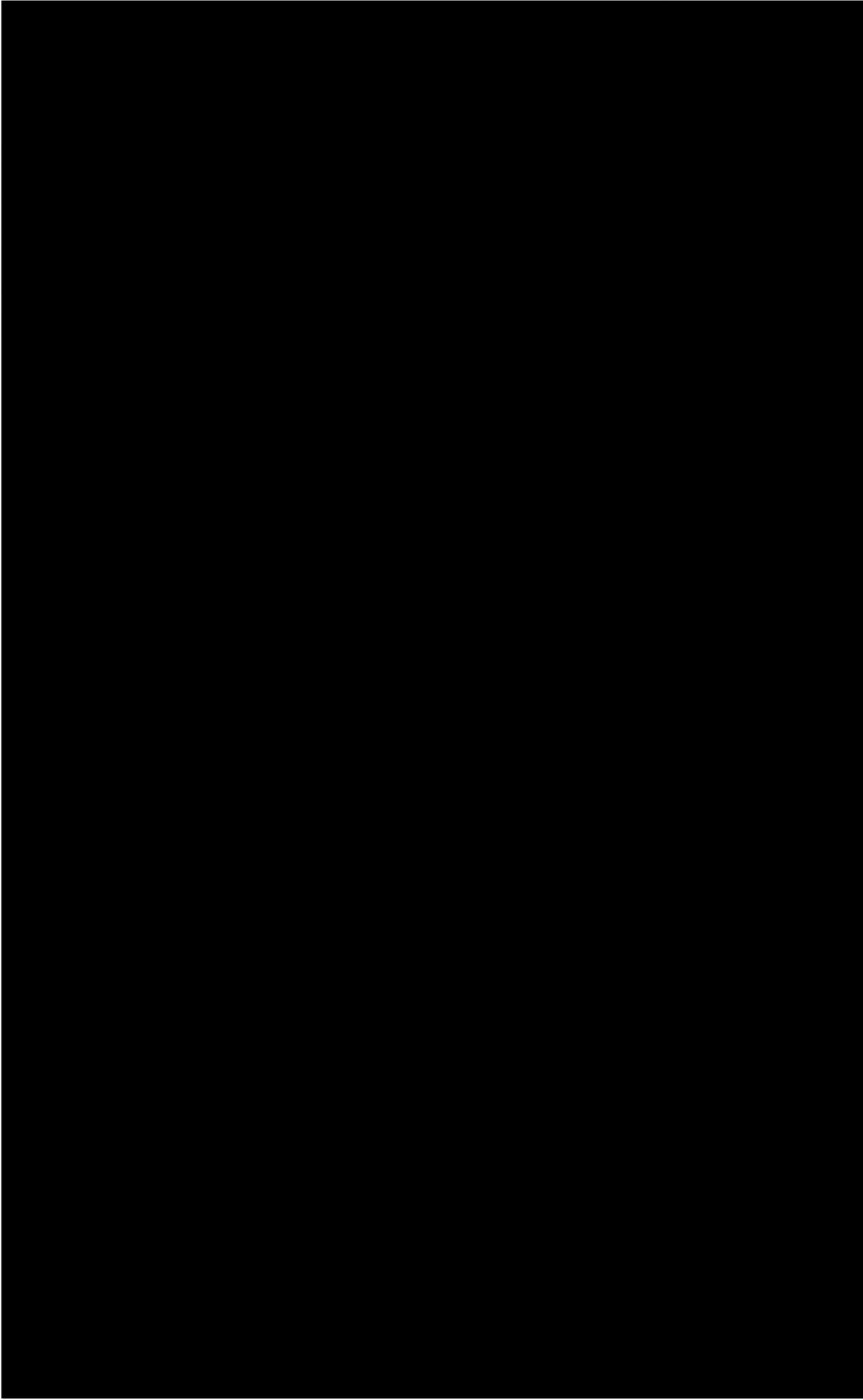
CPC Mineral, LLC

September 7, 2016.

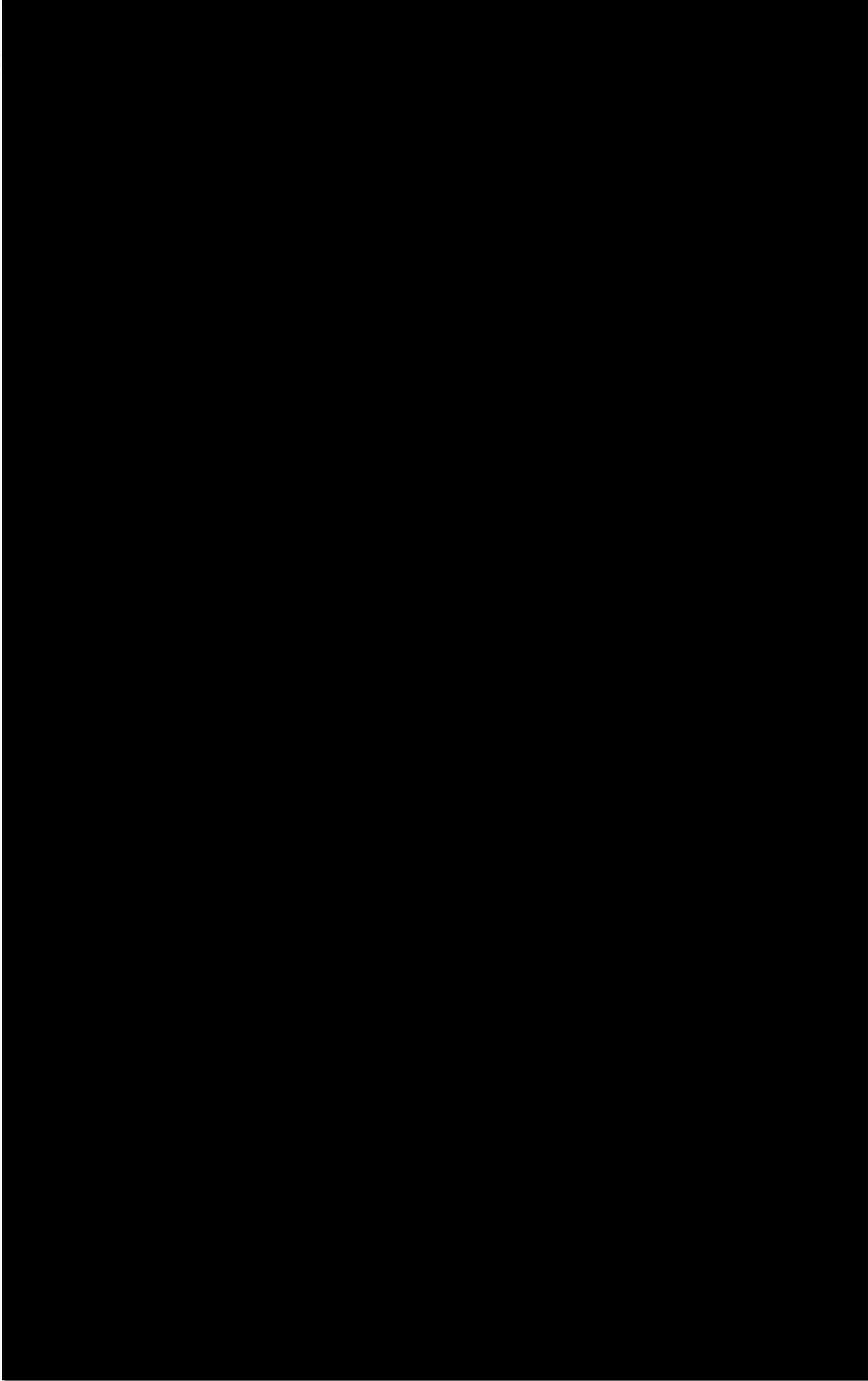


**CONFIDENTIAL**

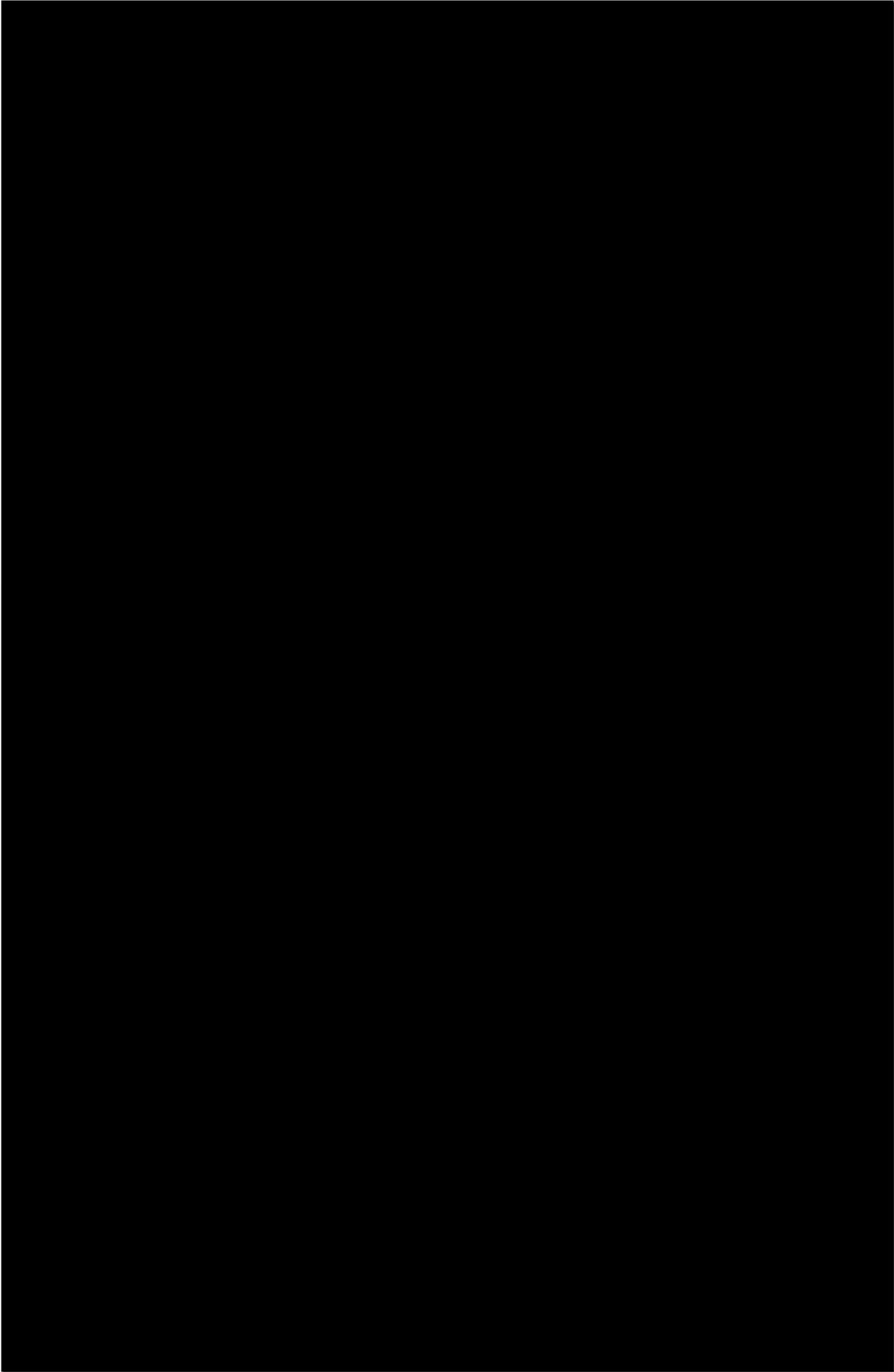
**CONFIDENTIAL**



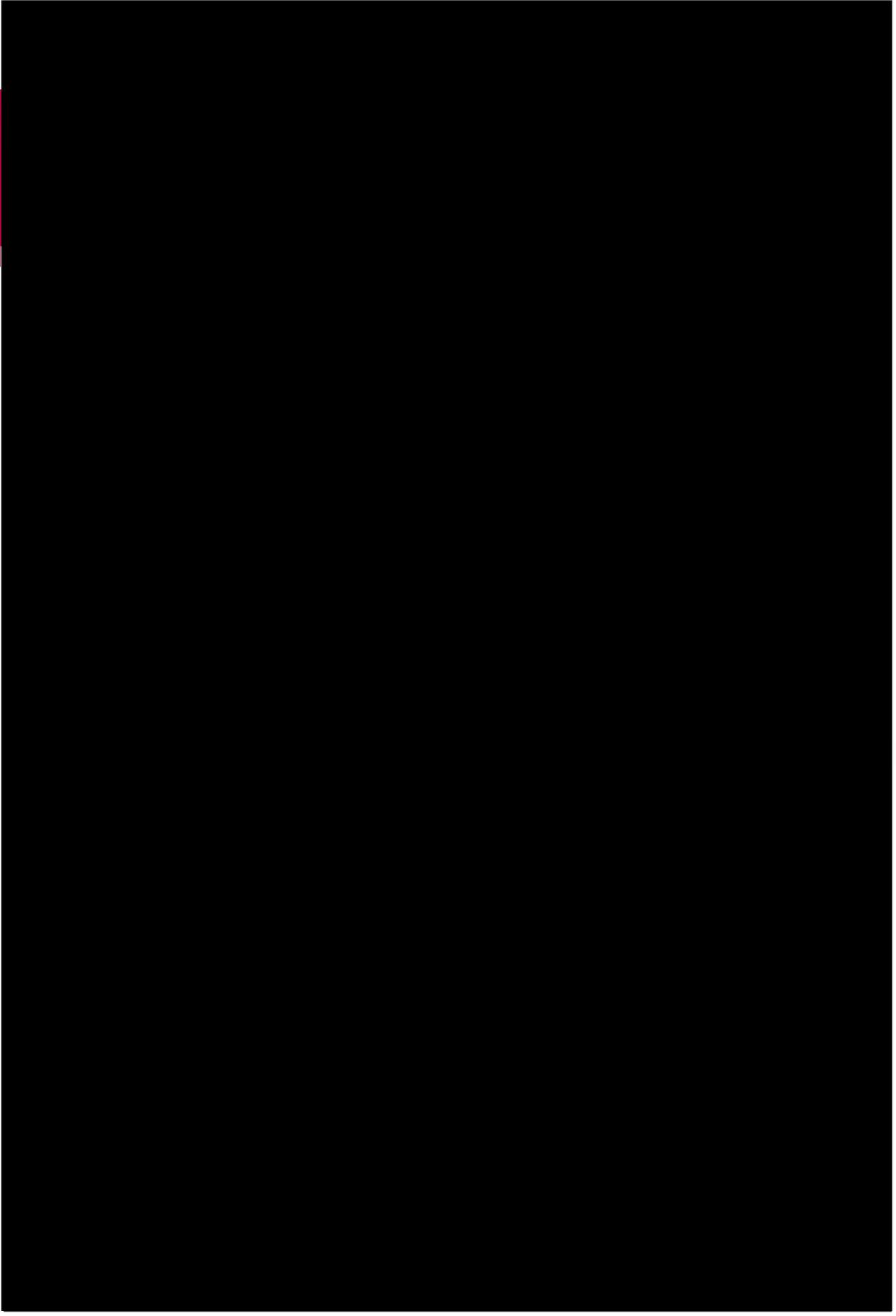
**CONFIDENTIAL**



**CONFIDENTIAL**

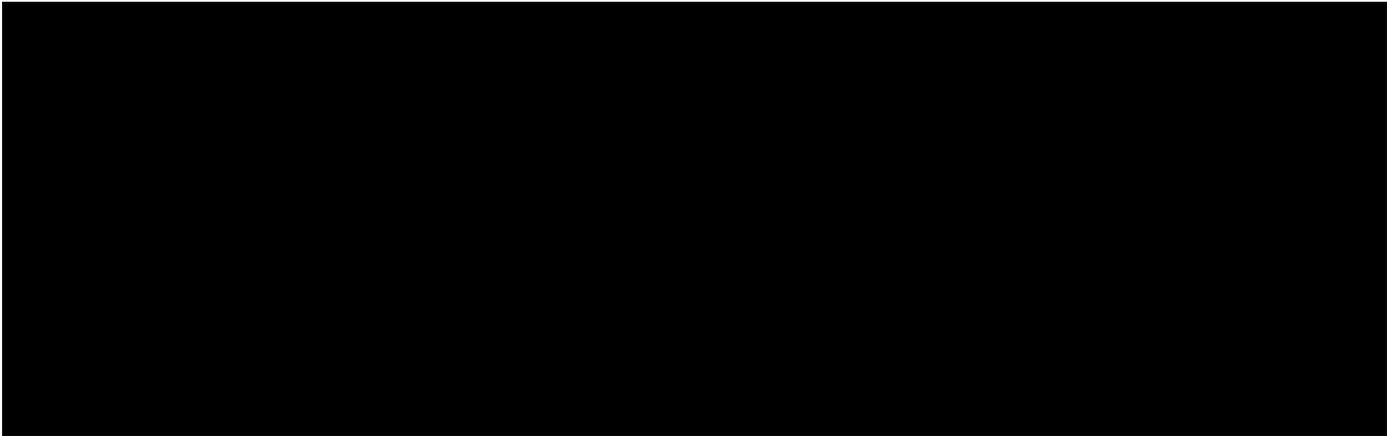


**CONFIDENTIAL**





## Conclusions



David R. Keller  
AAPG Certified Petroleum Geologist

<b>OPERATOR:</b> CPC MINERAL LLC	<b>DRILLING PROGNOSIS</b>	<b>BONNEVILLE COUNTY, IDAHO</b>
<b>Federal 20-3</b>		8/22/2016

**1. LOCATION AND DIRECTIONAL SUMMARY**

<b>SURFACE LOCATION</b>	<b>BOTTOM HOLE LOCATION</b>	<b>DISPLACEMENT</b>	<b>ELEVATIONS</b>
2574' FNL, 1930' FWL	CONTROLLED		6407' KB
Sec. 20, T3S, R43E	VERTICAL WELL	NA	6394' GL

Federal 20-3 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**

<b>FORMATION</b>	<b>DEPTH KB TVD</b>	<b>SUBSEA</b>	<b>POSSIBLE CONTENT</b>
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	Oil / Gas
RTD	7000'	-593'	

**3. CASING SUMMARY**

<b>INTERVAL</b>	<b>PURPOSE</b>	<b>HOLE SIZE</b>	<b>SIZE</b>	<b>WT</b>	<b>GRADE</b>	<b>THREAD</b>
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)
<b>TAIL SLURRY TYPE:</b>	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 5<sup>th</sup> joint to the designed cement top. This cement program may be altered if dictated by the availability of additional data prior to the job.

**1<sup>st</sup> Stage Cementing:**

<b>SPACER</b>	20 bbls water spacer
<b>TAIL SLURRY TYPE</b>	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)

**2<sup>nd</sup> Stage Cementing:**

<b>SPACER</b>	20 bbls water spacer
<b>TAIL SLURRY TYPE</b>	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 3<sup>rd</sup> 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 20-3

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	RATING	LOAD	RATING	LOAD

### 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
---------	-------	------	--------	-------	-----	----	-----	-----	-----	------	-------	------	------	-------	------	------

### 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
--------	-------	-------	--------	-------	------	----	-----	-----	-----	------	-------	------	------	--------	------	------

### SURFACE CASING NOTES:

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

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.

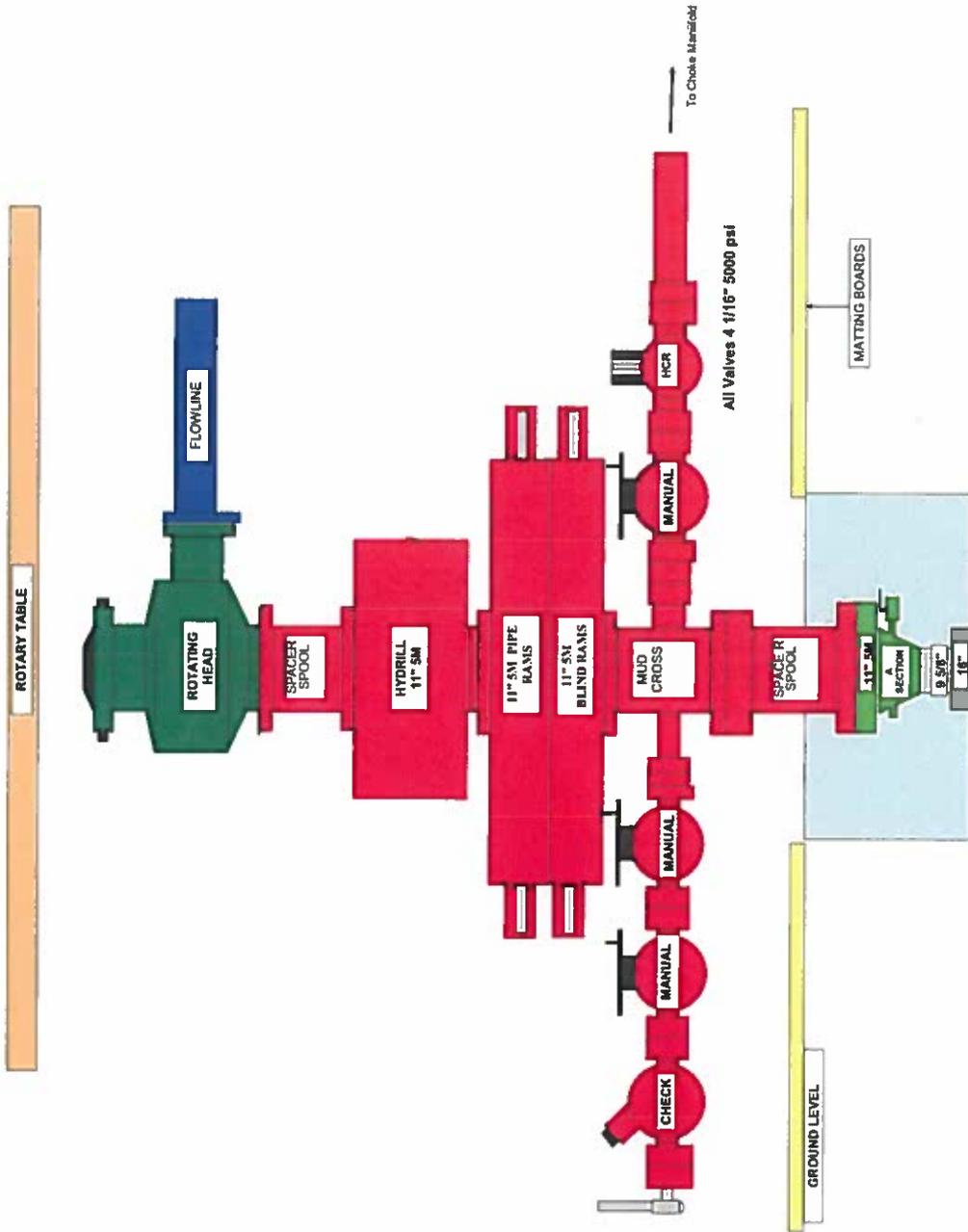
### PRODUCTION CASING NOTES:

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

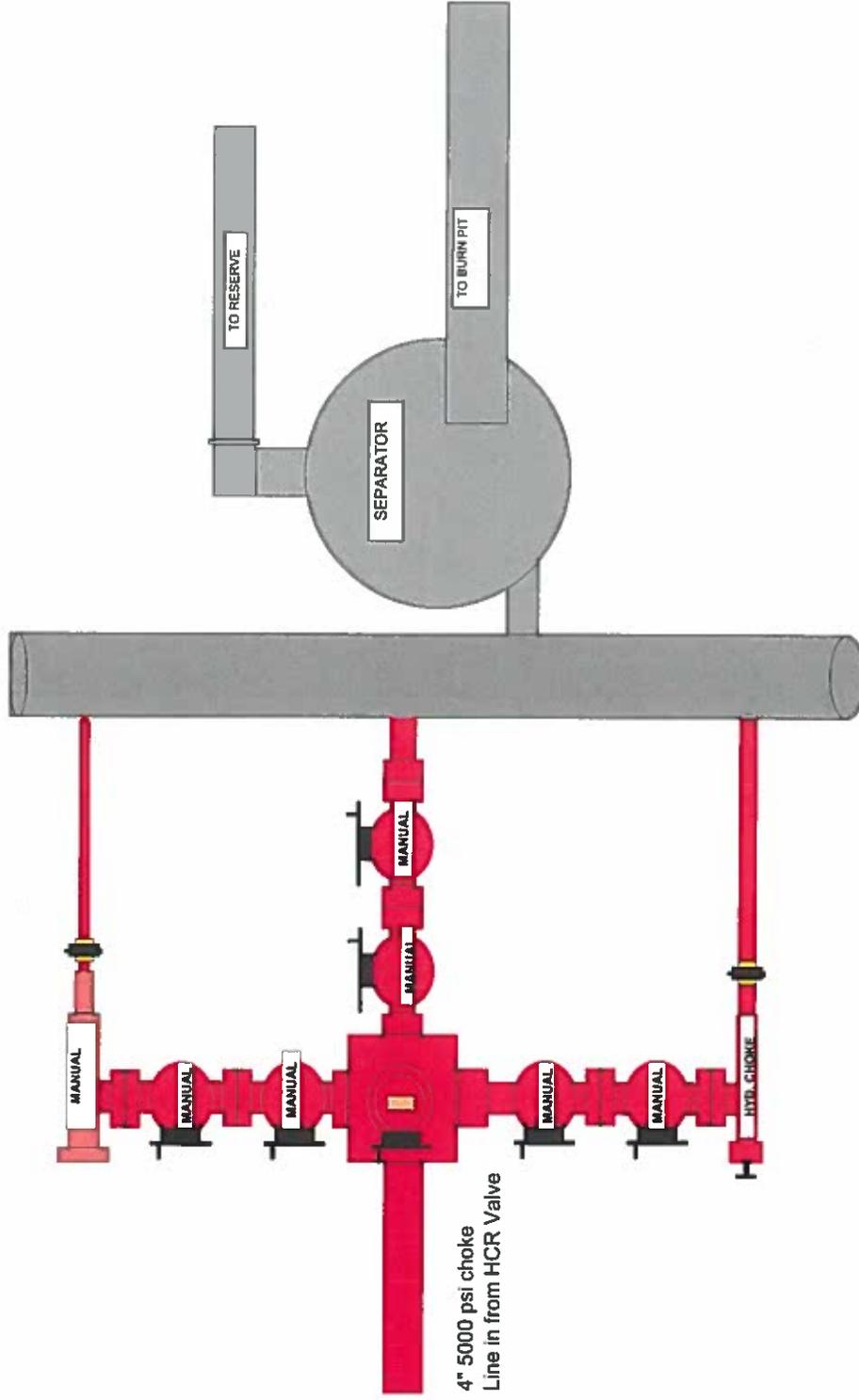
COLLAPSE DESIGN is based on 11 ppg mud in the annulus and evacuated casing.

TENSION DESIGN is based on air weight.

CPC MINERALS  
Federal 20-3  
5000 psi BOP Stack



**Federal 20-3  
Choke Manifold  
All Manifold Components Rated to 5000 psi**



3" Minimum ID on all Discharge lines from choke manifold

# FEDERAL 20-3 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

---

**BMP Description:** 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.

---

<b>Installation Schedule:</b>	Construct in conjunction with first vertical lifts
<b>Maintenance and Inspection:</b>	Inspect every 14 calendar days and within 24 hours after significant storm event (0.5 inches or greater) during construction. See Section 5.
<b>Responsible Staff:</b>	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.

##### ***BMP Description: Interim Seeding***

<input checked="" type="checkbox"/> <b>Permanent</b> <span style="margin-left: 150px;"><input type="checkbox"/> <b>Temporary</b></span>	
<b><i>Installation Schedule:</i></b>	Perform annually (fall) to areas disturbed during previous 12 months.
<b><i>Maintenance and Inspection:</i></b>	14 calendar days and within 24 hours after a rain event.
<b><i>Responsible Staff:</i></b>	Construction manager or delegate of manager

##### ***BMP Description: Traffic Control***

<input checked="" type="checkbox"/> <b>Permanent</b> <span style="margin-left: 150px;"><input type="checkbox"/> <b>Temporary</b></span>	
<b><i>Installation Schedule:</i></b>	Stabilize access points to be constructed (see Section 2.9), establish traffic patterns and routes to limit disturbance of soils to approved roadways.
<b><i>Maintenance and Inspection:</i></b>	Continuous during construction and operation of facility
<b><i>Responsible Staff:</i></b>	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 1/2" 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.

***BMP Description:*** Establish vegetation on slopes, seeding will only be successful if performed in the fall. Native seed mix will be used.

<b><i>Installation Schedule:</i></b>	Annually – fall
<b><i>Maintenance and Inspection:</i></b>	monthly after seeding
<b><i>Responsible Staff:</i></b>	Construction manager or delegate of manager

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

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

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

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

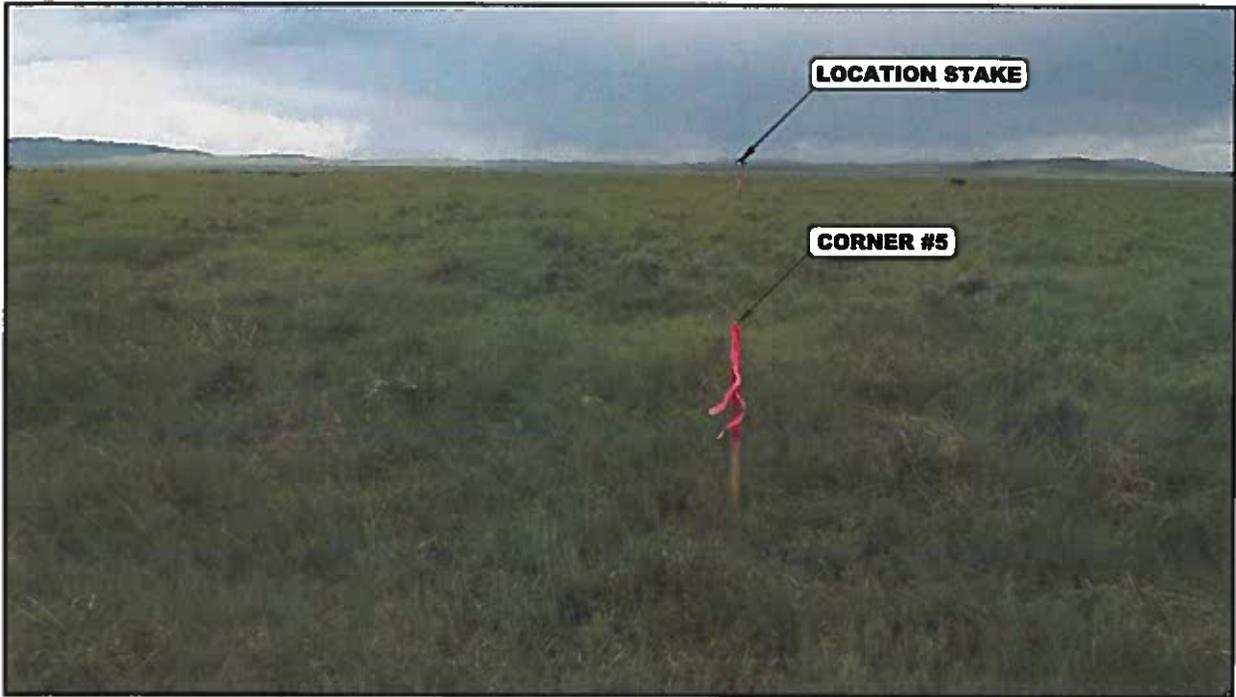
<b>Installation Schedule:</b>	Prior to construction, during construction and after construction as needed.
<b>Maintenance and Inspection:</b>	Inspect every 14 calendar days and within 24 hours after significant storm event (0.5 inches or greater) during construction.
<b>Responsible Staff:</b>	Construction 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: WESTERLY**



**PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS**

**CAMERA ANGLE: NORTHERLY**

REV: 2 08-19-16 C.D.L. (NAME CHANGE)

**CPC Mineral LLC**

FEDERAL #20-3  
 2574' FNL 1930' FWL  
 SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
 BONNEVILLE COUNTY, IDAHO

TAKEN BY	B.H.	06-13-16	
DRAWN BY	C.D.L.	06-21-16	
<b>LOCATION PHOTOS</b>			<b>PHOTO</b>



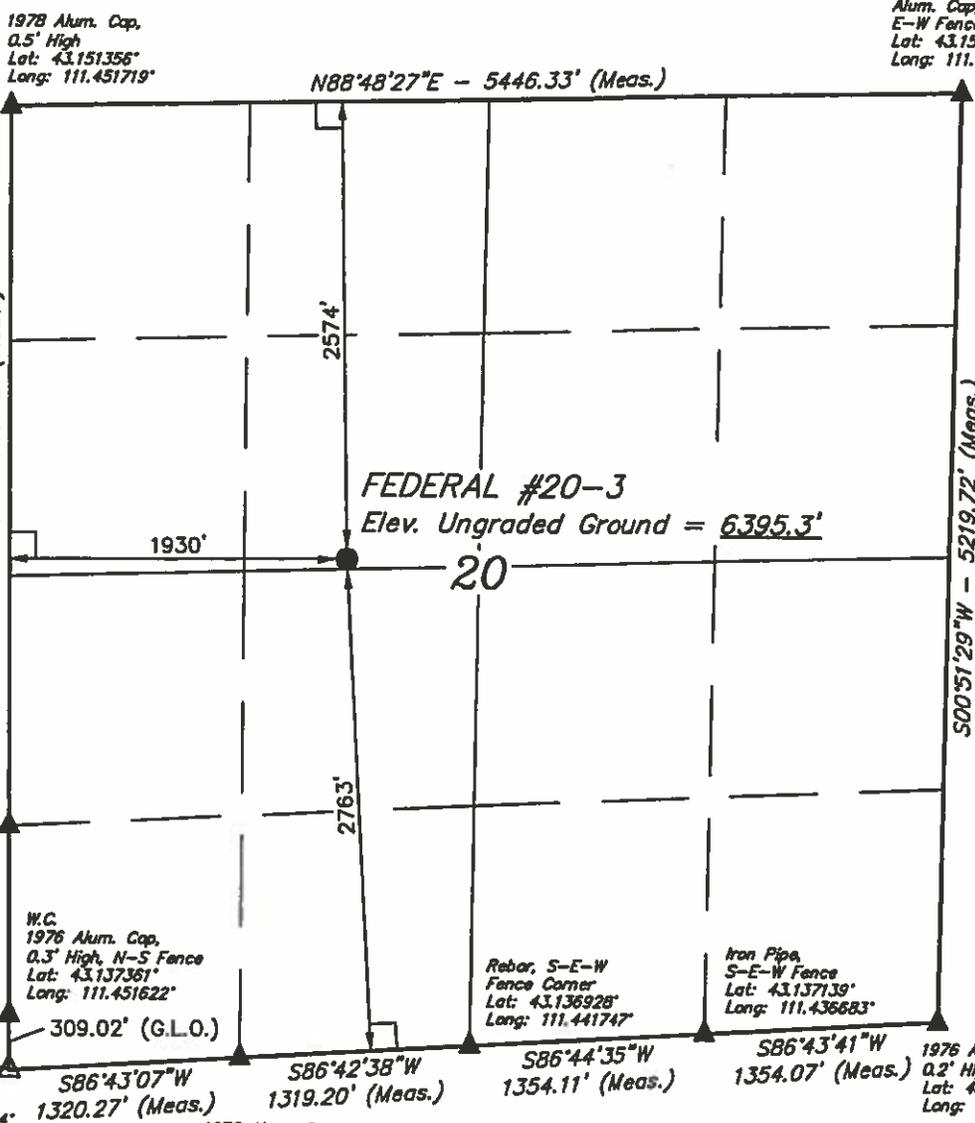
**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

**LEGEND:**

- 90° SYMBOL
- - PROPOSED WELLHEAD.
- ▲ - SECTION CORNERS LOCATED. (NAD 83)
- △ - SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.) (NAD 83)

**T3S, R43E, BOISE MERIDIAN**

Alum. Cap, 0.3' High  
E-W Fence  
Lat: 43.151664°  
Long: 111.431322°



Iron Pipe,  
S-E Fence Corner  
Lat: 43.140261°  
Long: 111.451644°

S00°20'29"E  
1365.94'  
(Meas. To True)  
S00°20'29"E  
1056.92'  
(Meas. To W.C.)

W.C.  
1976 Alum. Cap,  
0.3' High, N-S Fence  
Lat: 43.137361°  
Long: 111.451622°

Rebar, S-E-W  
Fence Corner  
Lat: 43.136928°  
Long: 111.441747°

Iron Pipe,  
S-E-W Fence  
Lat: 43.137139°  
Long: 111.436683°

1976 Alum. Cap,  
0.2' High, Steel Post  
Lat: 43.137350°  
Long: 111.431619°

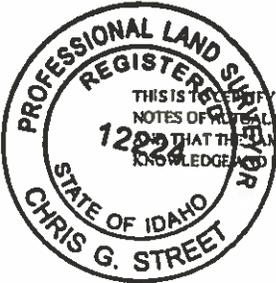
True Position  
Lat: 43.136514°  
Long: 111.451614°

1978 Alum. Cap,  
0.4' High, S-E  
Fence Corner  
Lat: 43.136722°  
Long: 111.446878°



<b>NAD 83 (SURFACE LOCATION)</b>	
LATITUDE = 43°08'39.86" (43.144406)	
LONGITUDE = 111°26'40.00" (111.444444)	
<b>NAD 27 (SURFACE LOCATION)</b>	
LATITUDE = 43°08'40.16" (43.144489)	
LONGITUDE = 111°26'37.19" (111.443664)	

PDOP = 1.4



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 12024  
STATE OF IDAHO

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

REV: 3 08-19-16 C.D.L. (NAME CHANGE & SIIL MOVE)

**BASIS OF BEARINGS**  
BASIS OF BEARINGS IS A Q.P.S. OBSERVATION

**BASIS OF ELEVATION**  
BENCH MARK (E43) 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.



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

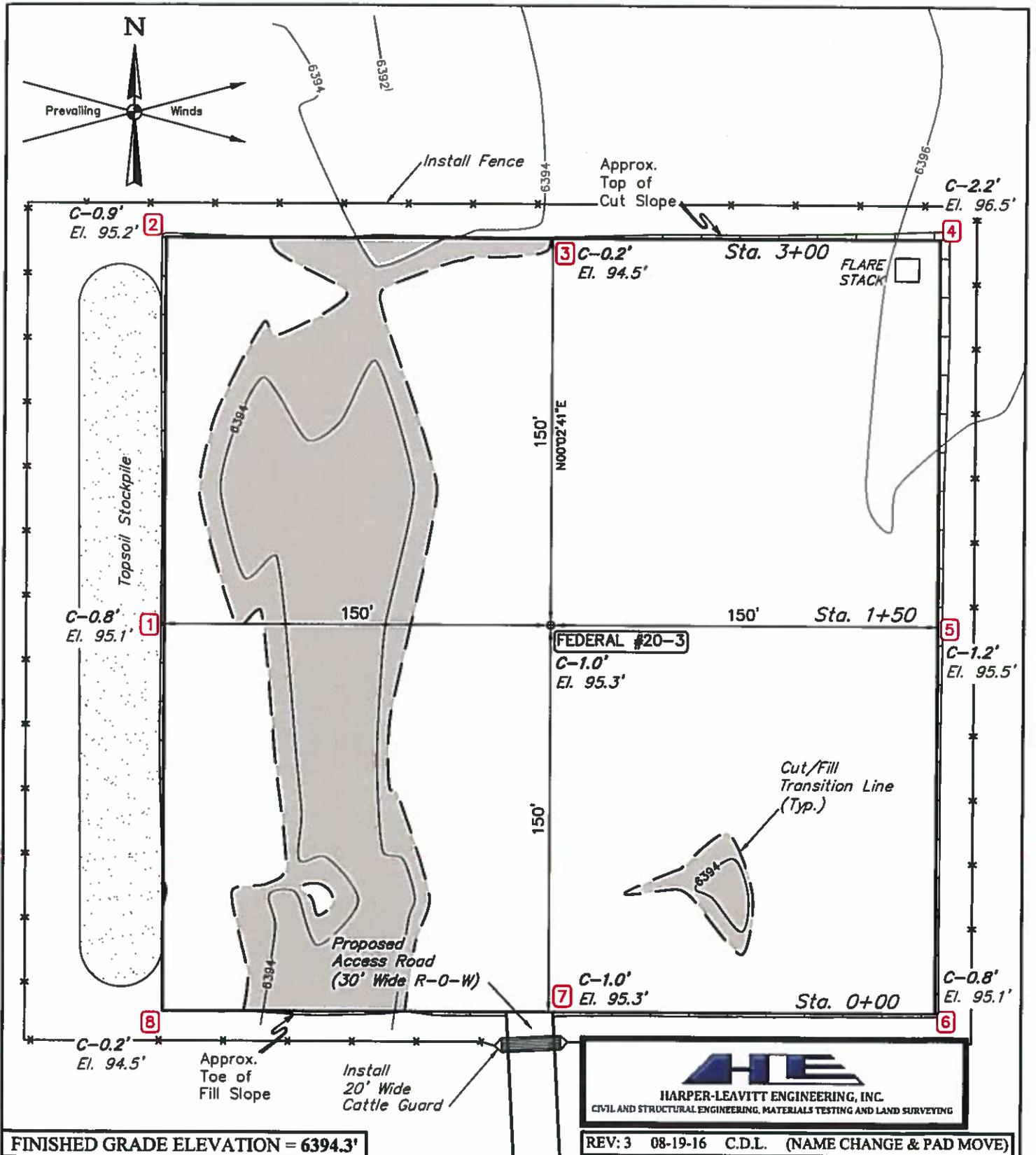


**CPC Mineral LLC**

**FEDERAL #20-3**  
SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
BONNEVILLE COUNTY, IDAHO

<b>SURVEYED BY</b>	BART HUNTING, B.J.	06-13-16	<b>SCALE</b>
<b>DRAWN BY</b>	C.D.L.	06-21-16	1" = 1000'

**WELL LOCATION PLAT**



- 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.).

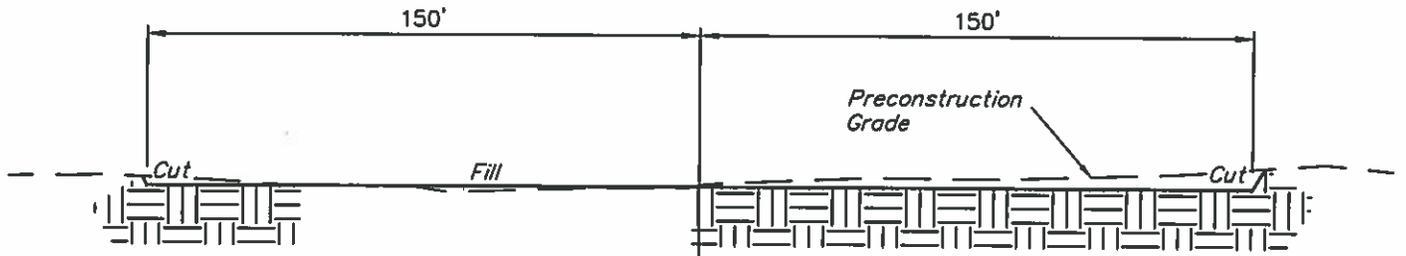
**CPC Mineral LLC**  
**FEDERAL #20-3**  
 2574' FNL 1930' FWL  
 SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
 BONNEVILLE COUNTY, IDAHO



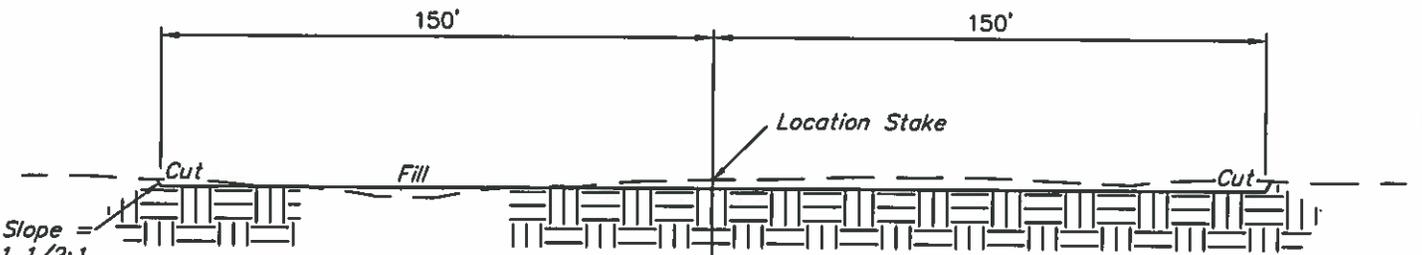
**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

<b>SURVEYED BY</b>	B.H., B.J.	06-13-16	<b>SCALE</b>
<b>DRAWN BY</b>	C.D.L.	06-21-16	1" = 50'
<b>CONSTRUCTION LAYOUT FIGURE #1</b>			

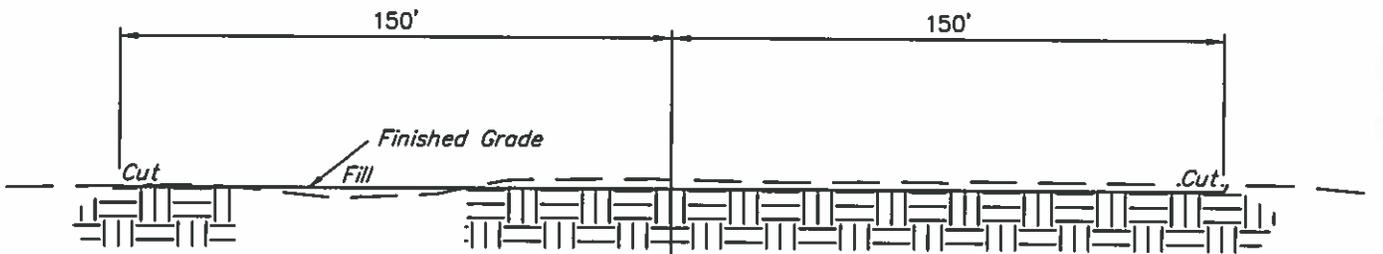
1" = 20'  
 X-Section  
 Scale  
 1" = 50'



STA. 3+00



STA. 1+50



STA. 0+00

APPROXIMATE EARTHWORK QUANTITIES	
(6") TOPSOIL STRIPPING	1,700 Cu. Yds.
REMAINING LOCATION	920 Cu. Yds.
<b>TOTAL CUT</b>	<b>2,620 Cu. Yds.</b>
<b>FILL</b>	<b>920 Cu. Yds.</b>
EXCESS MATERIAL	1,700 Cu. Yds.
TOPSOIL	1,700 Cu. Yds.
<b>EXCESS UNBALANCE (After Interim Rehabilitation)</b>	<b>0 Cu. Yds.</b>

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	ACRES
WELL SITE DISTURBANCE (FENCED AREA)	NA	±2.740
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±1398'	±0.963
<b>TOTAL SURFACE USE AREA</b>		<b>±3.703</b>



REV: 3 08-19-16 C.D.L. (NAME CHANGE & PAD MOVE)

**NOTES:**

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

**CPC Mineral LLC**

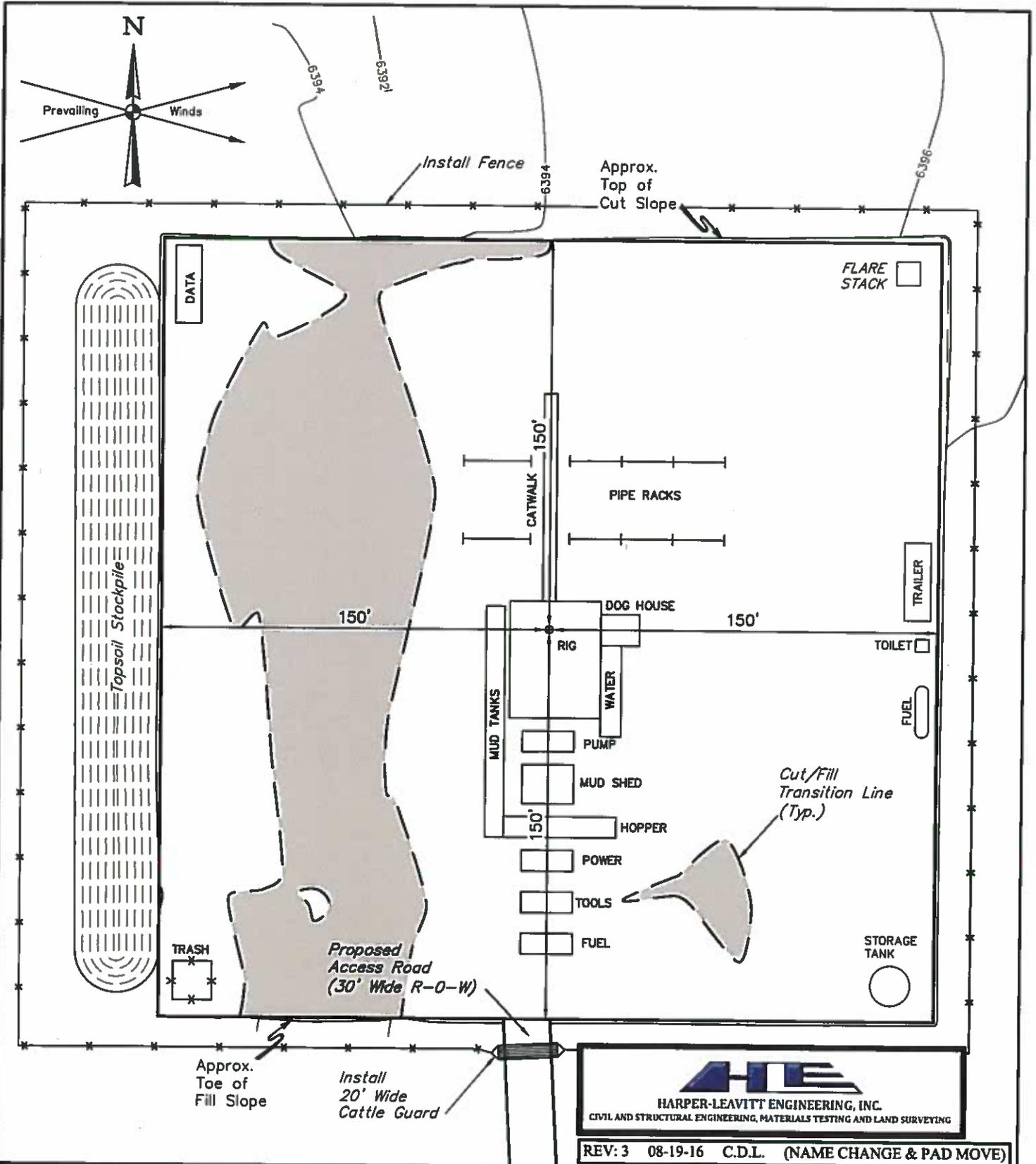
**FEDERAL #20-3**  
**2574' FNL 1930' FWL**  
**SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN**  
**BONNEVILLE COUNTY, IDAHO**

SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	AS SHOWN

**CONSTRUCTION LAYOUT CROSS SECTIONS FIGURE #2**



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 Vernal, UT 84078 \* (435) 789-1017



**HE**  
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 CIVIL AND STRUCTURAL ENGINEERING, MATERIALS TESTING AND LAND SURVEYING

REV: 3 08-19-16 C.D.L. (NAME CHANGE & PAD MOVE)

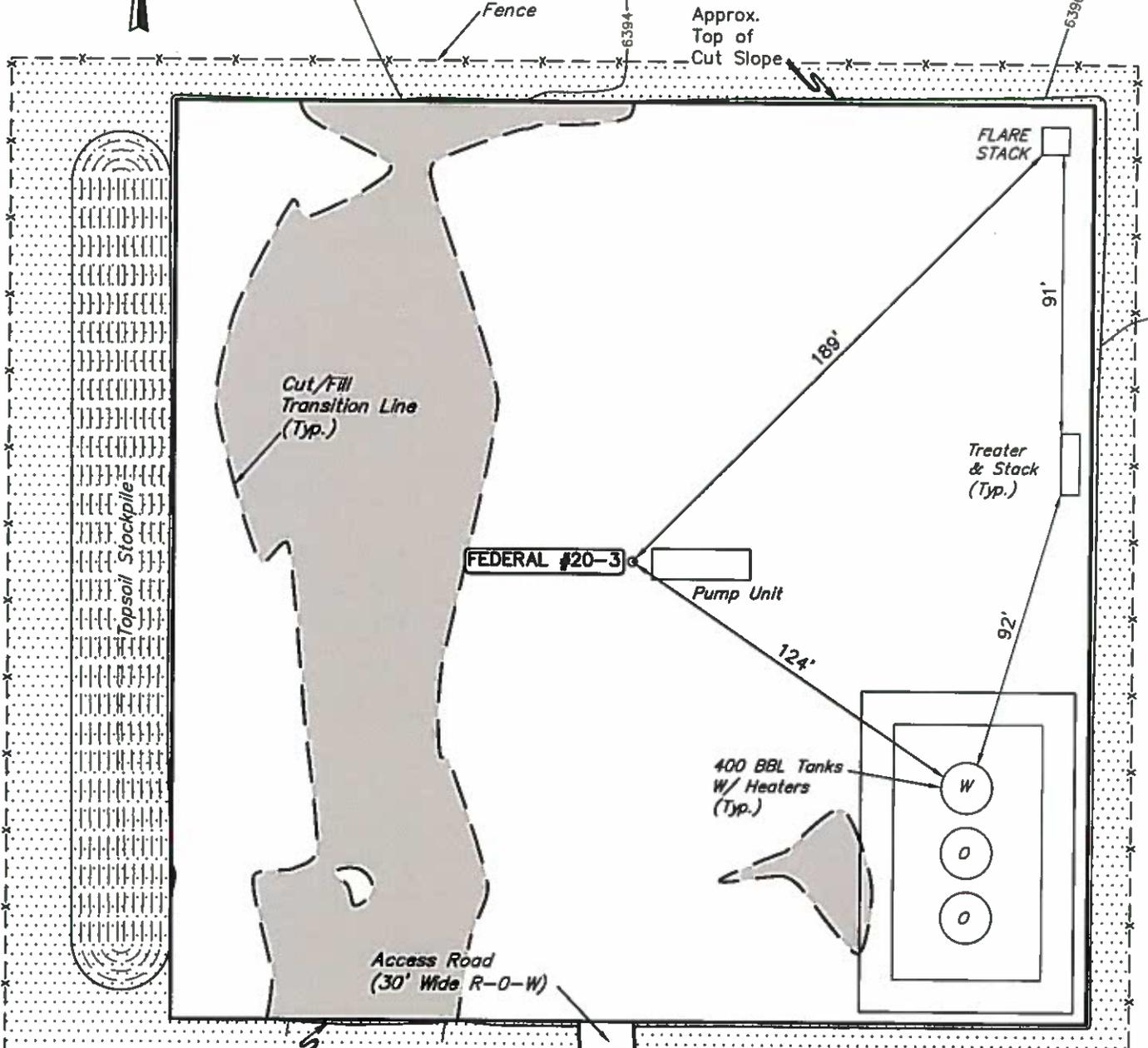
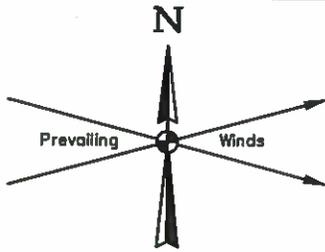
- NOTES:**
- Flare Stack is to be located a min. of 100' from the wellhead.
  - Contours shown at 2' intervals.

**CPC Mineral LLC**  
 FEDERAL #20-3  
 2574' FNL 1930' FWL  
 SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
 BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	1" = 50'
<b>TYPICAL RIG LAYOUT</b>		<b>FIGURE #3</b>	



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**LEGEND:**  
 Reclaimed Area

Approx. Toe of Fill Slope  
 20' Wide Cattle Guard

APPROXIMATE UN-RECLAIMED ACREAGE = ±2.071 ACRES  
 APPROXIMATE RECLAIMED ACREAGE = ±0.669 ACRES  
 TOTAL ACREAGE = ±2.740 ACRES

**NOTES:**  
 • Contours shown at 2' intervals.

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

REV: 3 08-19-16 C.D.L. (NAME CHANGE & PAD MOVE)

**CPC Mineral LLC**

**FEDERAL #20-3**  
 2574' FNL 1930' FWL  
 SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
 BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	1" = 50'

**INTERIM RECLAMATION PLAN FIGURE #4**



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 Vernal, UT 84078 • (435) 789-1017

PROCEED IN A NORTHERLY, THEN NORTHEASTERLY, THEN NORTHERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM GRAY, IDAHO ALONG GRAYS LAKE ROAD APPROXIMATELY 8.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1,398' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM GRAY, IDAHO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 8.9 MILES.

REV: 2 08-19-16 C.D.L. (NAME CHANGE)

**CPC Mineral LLC**

FEDERAL #20-3  
 2574' FNL 1930' FWL  
 SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
 BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	
DRAWN BY	C.D.L.	06-21-16	
<b>ROAD DESCRIPTION</b>			



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**LEGEND:**

 **PROPOSED LOCATION**



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



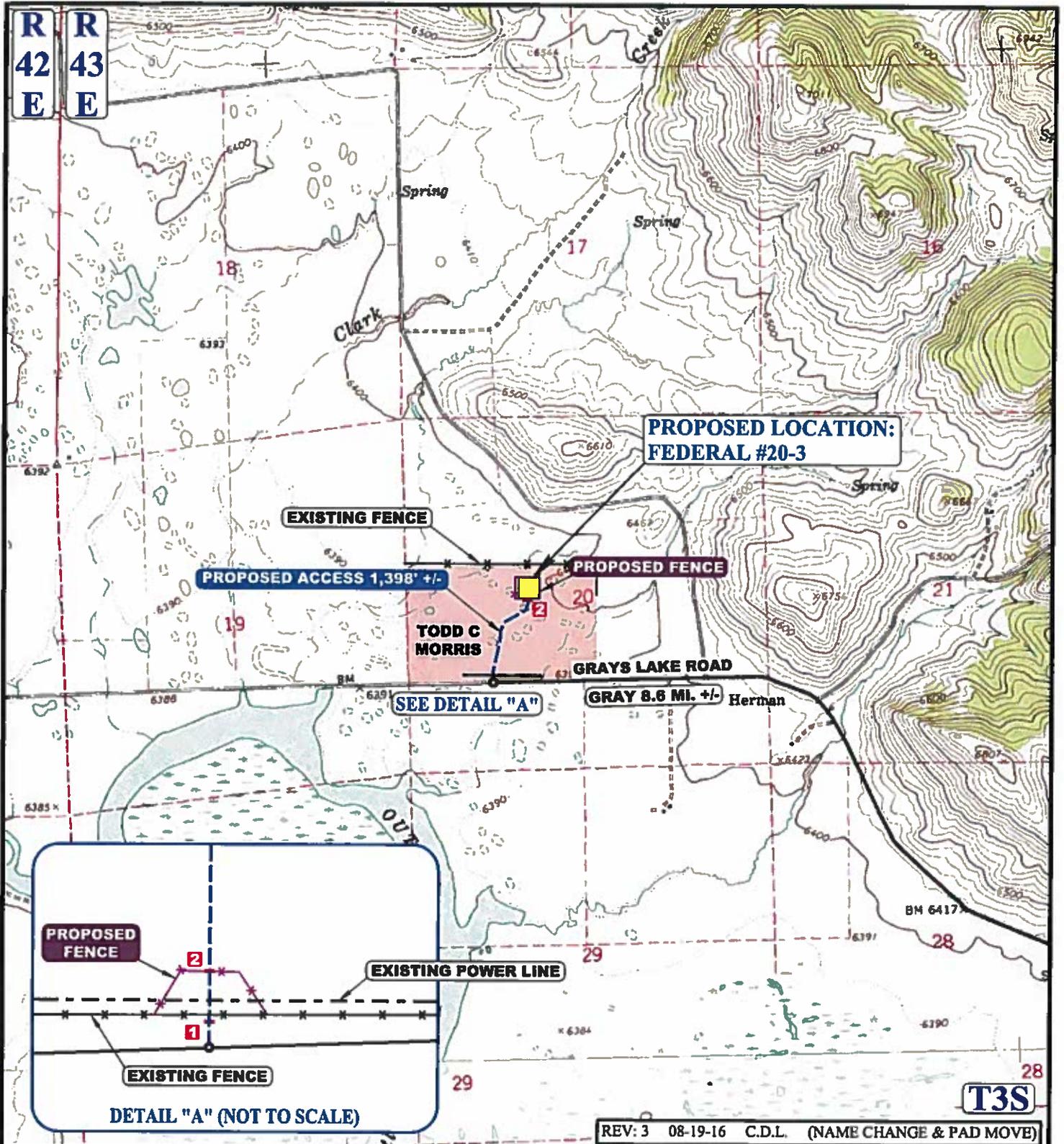
**CPC Mineral LLC**

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2574' FNL 1930' FWL  
SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
BONNEVILLE COUNTY, IDAHO

<b>SURVEYED BY</b>	B.H., B.J.	06-13-16	<b>SCALE</b>
<b>DRAWN BY</b>	C.D.L.	06-21-16	1 : 100,000

**ACCESS ROAD MAP**

**TOPO A**



**PROPOSED LOCATION:  
FEDERAL #20-3**

**EXISTING FENCE**

**PROPOSED ACCESS 1,398' +/-**

**PROPOSED FENCE**

**TODD C  
MORRIS**

**GRAYS LAKE ROAD**

**SEE DETAIL "A"**

**GRAY 8.6 MI. +/-**

**Herman**

**BM 6417**

**PROPOSED  
FENCE**

**EXISTING POWER LINE**

**EXISTING FENCE**

**DETAIL "A" (NOT TO SCALE)**

**T3S**

**REV: 3 08-19-16 C.D.L. (NAME CHANGE & PAD MOVE)**

**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 UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.**

**LEGEND:**

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING FENCE
- EXISTING POWER LINE

- 1** INSTALL 18" CULVERT
- 2** INSTALL 20' WIDE CATTLE GUARD & (2) 10' WIDE GATES



**CPC Mineral LLC**

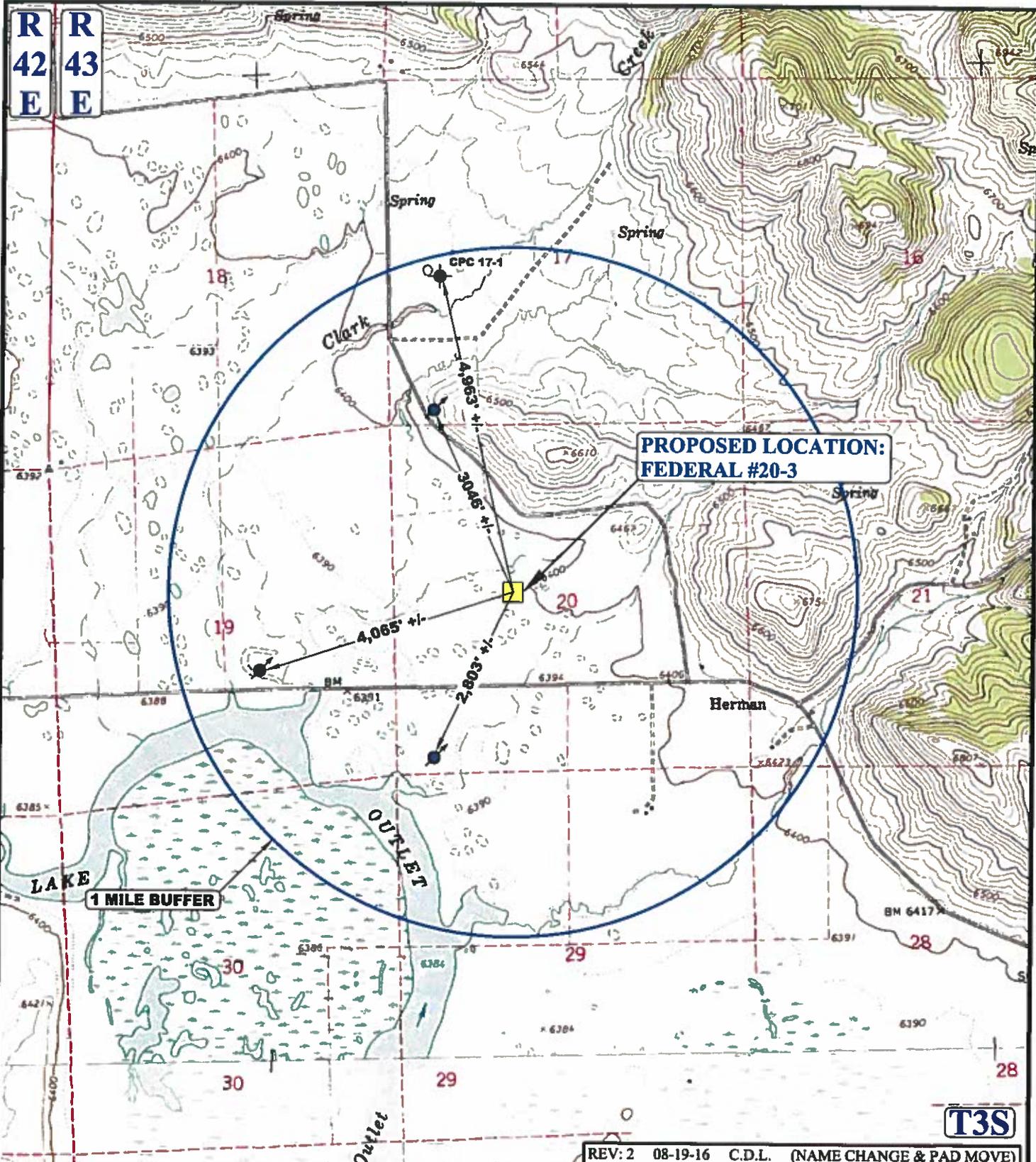
**FEDERAL #20-3  
2574' FNL 1930' FWL  
SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
BONNEVILLE COUNTY, IDAHO**

<b>SURVEYED BY</b>	B.H., B.J.	06-13-16	<b>SCALE</b>
<b>DRAWN BY</b>	C.D.L.	06-21-16	1 : 24,000

**ACCESS ROAD MAP TOPO B**



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



**PROPOSED LOCATION:  
FEDERAL #20-3**

**1 MILE BUFFER**

**T3S**

REV: 2 08-19-16 C.D.L. (NAME CHANGE & PAD MOVE)

**LEGEND:**

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



**CPC Mineral LLC**

**FEDERAL #20-3**  
2574' FNL 1930' FWL  
SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	1 : 24,000
<b>WELL PROXIMITY MAP</b>			<b>TOPO C</b>

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



R  
43  
E

Clark

PROPOSED LOCATION:  
FEDERAL #20-3

CREEK

20

1,000' OFFSET

BM

Herman

EURLE

T3S

REV: 2 08-19-16 C.D.L. (NAME CHANGE & PAD MOVE)

**LEGEND:**

-  EXISTING DRAINAGE
-  1000' OFFSET BOUNDARY



**CPC Mineral LLC**

FEDERAL #20-3  
2574' FNL 1930' FWL  
SE 1/4 NW 1/4, SECTION 20, T3S, R43E, BOISE MERIDIAN  
BONNEVILLE COUNTY, IDAHO

SURVEYED BY	B.H., B.J.	06-13-16	SCALE
DRAWN BY	C.D.L.	06-21-16	1 : 12,000

**HYDROLOGY MAP** **TOPO W**



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
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# **Federal 20-3 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.