



02557133

Form 3160-3
(August 2007)

Fed Drilling Permit

2557126

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COGCC

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

1/28

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. Fed. Beezley D-051174
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Chevron USA Inc		7. If Unit or CA Agreement, Name and No. COC 47675X
3a. Address 100 Chevron Road Rangely, CO 81648	3b. Phone No. (include area code) 970-675-3842	8. Lease Name and Well No. BEEZLEY 6X22
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 2118 FNL & 1642 FEL (SWNE) Section 22, T2N, R103W, 6TH P.M. At proposed prod. zone 2500.3 FNL & 2387.3 FEL		9. API Well No. TO BE ASSIGNED
14. Distance in miles and direction from nearest town or post office* West from Rangely on HWY 64, 8 miles, then 3/4 miles on lease road (south).		10. Field and Pool, or Exploratory Rangely Weber Sand Unit
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 525' to the south	16. No. of acres in lease 19,143 Unit Acres	11. Sec., T. R. M. or Blk. and Survey or Area SECTION 22, T2N, R103W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 125'	19. Proposed Depth 6841' MD	12. County or Parish Rio Blanco
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL = 5594'	22. Approximate date work will start* 07/15/2010	13. State CO
17. Spacing Unit dedicated to this well 20 acres		20. BLM/BIA Bond No. on file ES 0022
23. Estimated duration 2 WEEKS DRILLING TIME		

24. Attachments

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

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

25. Signature <i>Diane L Peterson</i>	Name (Printed/Typed) Diane L Peterson	Date 04/01/2010
Title Regulatory Specialist Chevron USA Inc		
Approved by (Signature)	Name (Printed/Typed)	Date
Title Office		

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

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

(Continued on page 2)

*(Instructions on page 2)

CHEVRON U.S.A. INC.

BASIS OF ELEVATION

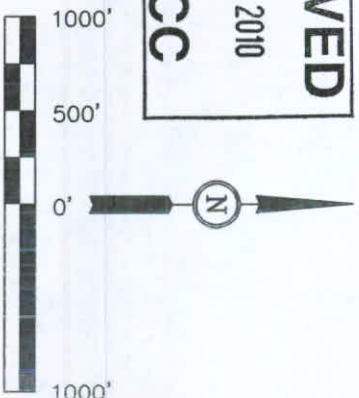
BASIS OF BEARINGS

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

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SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLANT 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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 17492
STATE OF COLORADO

Revised: 01-13-10 D.R.B.



PDOP = 3.8

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°07'44.19" (40.128942)	LATITUDE = 40°07'48.26" (40.130072)		
LONGITUDE = 108°56'29.43" (108.941508)	LONGITUDE = 108°56'20.03" (108.933889)		
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°07'44.30" (40.128972)	LATITUDE = 40°07'48.36" (40.130100)		
LONGITUDE = 108°56'27.03" (108.940842)	LONGITUDE = 108°56'17.63" (108.935231)		

SCALE
1" = 1000'

PARTY	D.R.	J.F.	D.R.B.
-------	------	------	--------

REFERENCES
G.L.O. PLAT

DATE SURVEYED:	DATE DRAWN:
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REFERENCES
G.L.O. PLAT

WEATHER	FILE
COLD	CHEVRON U.S.A., INC.

CHEVRON U.S.A., INC.
BEEZLEY #6X22 & #5X22
LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 22, T2N, R103W, 6th P.M.

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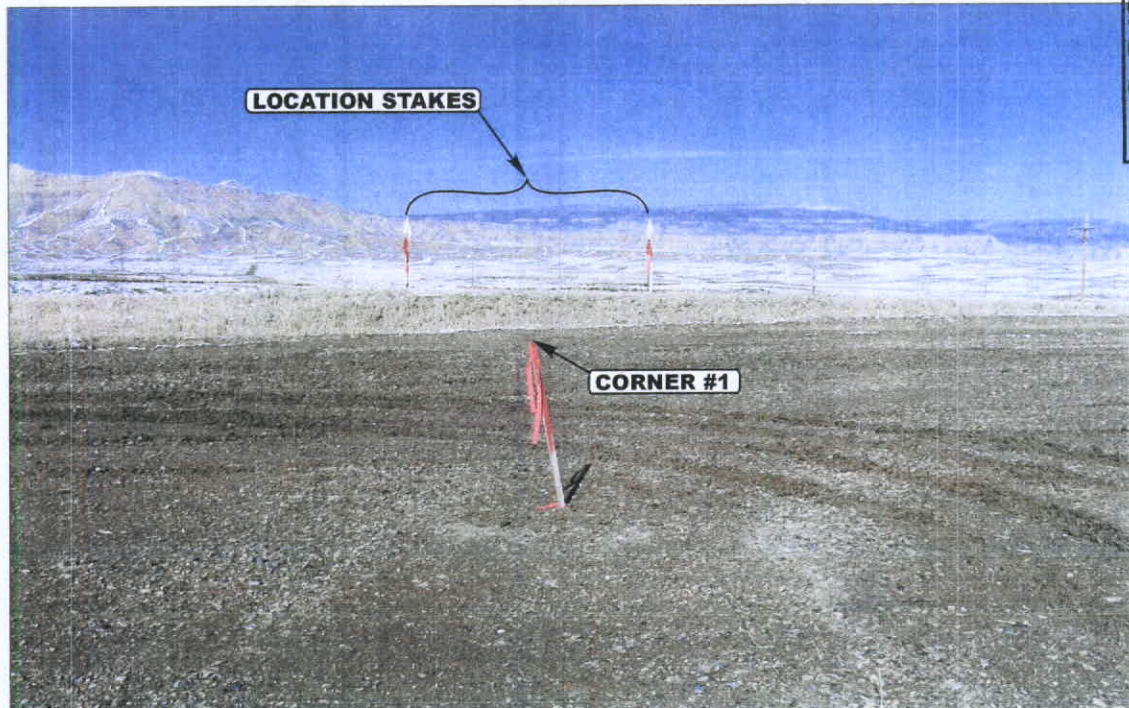


PHOTO: VIEW FROM CORNER #1 TO LOCATION STAKES

CAMERA ANGLE: NORTHERLY

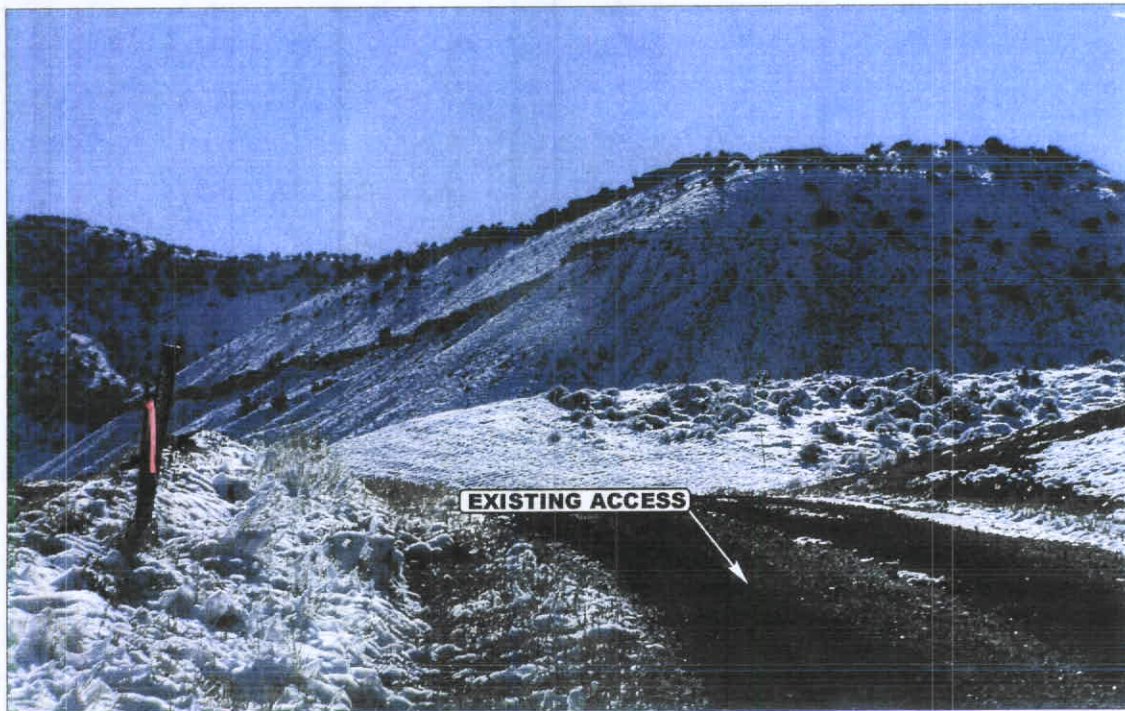


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

11 19 09
MONTH DAY YEAR

TAKEN BY: D.R.

DRAWN BY: Z.L.

REVISED: 00-00-00

PHOTO
P1

CHEVRON U.S.A., INC.
BEEZLEY #6X22 & #5X22
LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 22, T2N, R103W, 6th P.M.

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PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: NORTHERLY

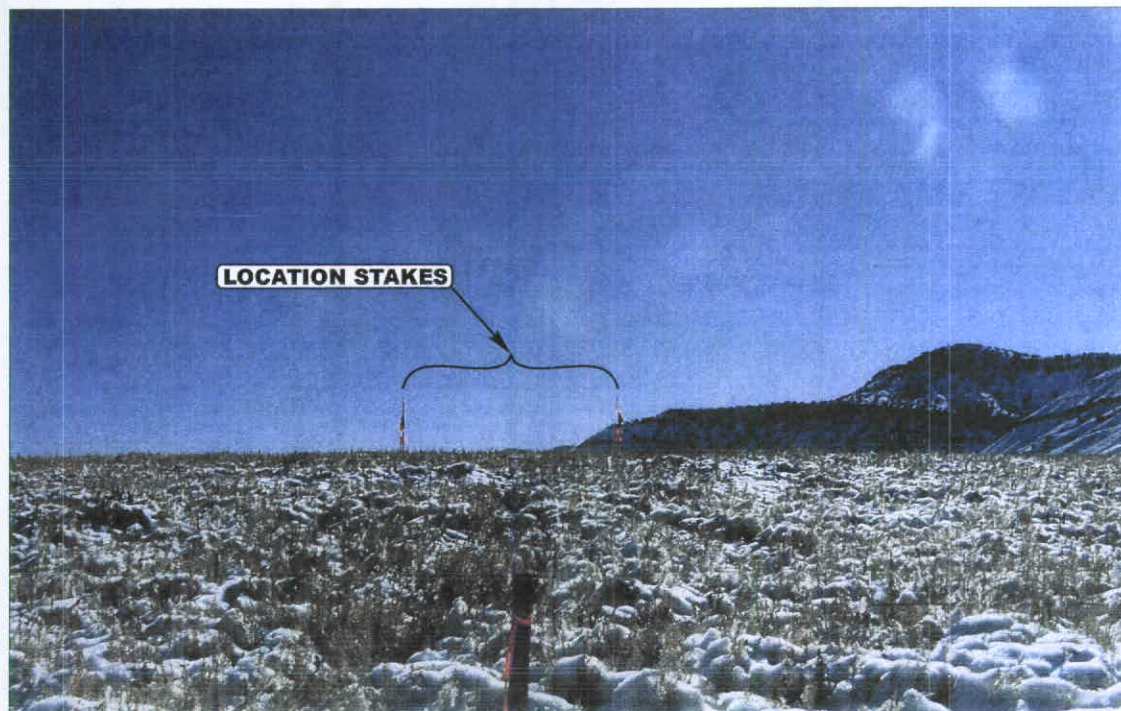


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

**U
E
L
S**

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

11 19 09
MONTH DAY YEAR

TAKEN BY: D.R.

DRAWN BY: Z.L.

REVISED: 00-00-00

PHOTO
P2

CHEVRON U.S.A., INC.
BEEZLEY #6X22 & #5X22
LOCATED IN RIO BLANCO COUNTY, COLORADO
SECTION 22, T2N, R103W, 6th P.M.

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PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: EASTERLY

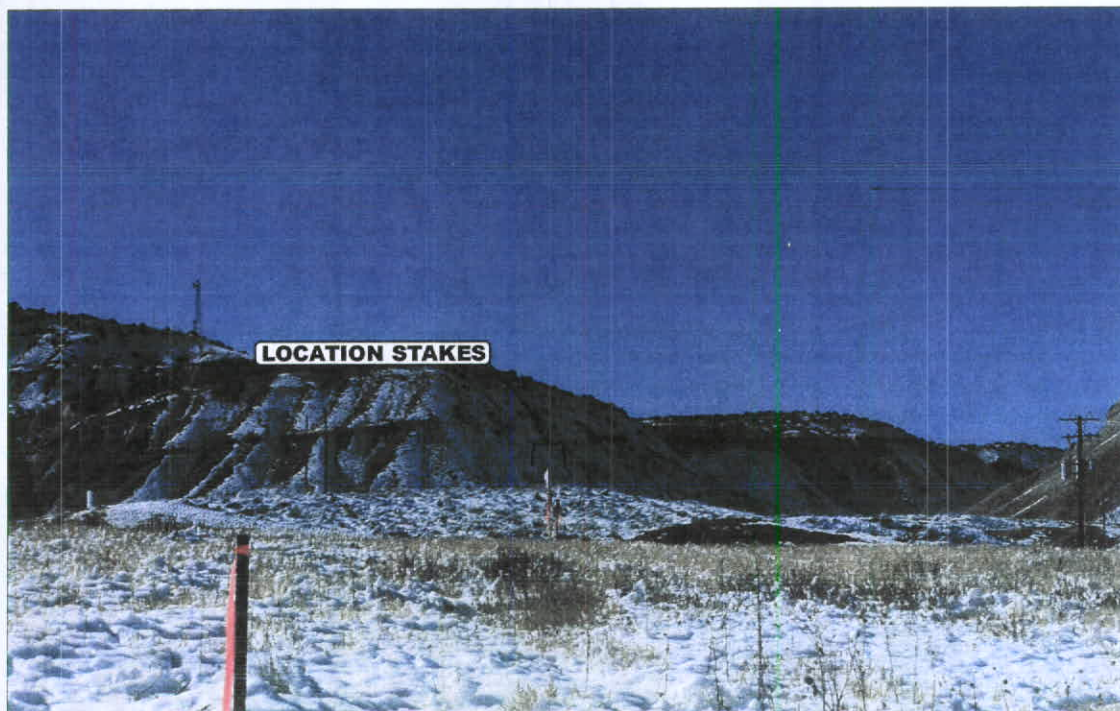


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: WESTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

11 19 09
MONTH DAY YEAR

TAKEN BY: D.R.

DRAWN BY: Z.L.

REVISED: 00-00-00

PHOTO

P3

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LEASE NUMBER - Federal Beezley D-051174

12 POINT SURFACE USE PLAN
and
CERTIFYING STATEMENT per 3/7/2007 Federal Register Posting

BEEZLEY 6X22

API# applied for with COGCC

LOCATED IN

RANGELY WEBER SAND UNIT

2118 FNL & 1642' FEL (SW NE) Section 22, T2N, R103W

RIO BLANCO COUNTY, COLORADO

Please note that this will be
the 2nd well of 2 on this location.

CHEVRON USA, Inc
Beezley 6X22

LEGAL DESCRIPTION : 2118 FNL & 1642 FEL (SWNE) Section 22, T2N, R103W, 6TH P.M.

1. EXISTING ROADS

See attached Topographic Map "B" and attached full Rangely Weber Sand Unit (COC 47675X) field map referenced as "ROAD MAP". Please note on "Addendum to Legal Plat" this location will be built on the existing road, no new access road needed.

To reach CHEVRON proposed **BEEZLEY 6X22** location -
Proceed west out of Rangely, Colorado on Colorado State Highway 64 approximately 8 miles, turn South on Chevron lease road, proceed 3/4 mile to well location.

All of the improved surface roads in the area are maintained by Chevron or its subcontractors. This maintenance consists of some minor grade work for smoothing of road grades and for snow removal by road maintainers with dozer blades and other contractor's equipment as required.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The planned access road is directly off existing lease road. **No new access road is needed.** There are no fences on the property. Installing gates, cattle guards, or cutting fences will not be required. The terrain that is traversed by this road is relatively flat and is vegetated with sparse amounts of sagebrush and grasses. Turn outs will not be required.

Approval shall be requested to continue operations should the surface become saturated to a depth of three (3) inches. All permanent facilities placed on the location will be painted Carlsbad Canyon Brown (Fuller Brand Colorant 31293 or equivalent) to blend with the natural environment. ("Based on any location visits by BLM White River Office personnel or COGCC personnel, this could change".) The well cellar will be covered with steel grating and no hazards will exist for livestock or wildlife. Rehabilitation of the disturbed areas no longer needed for operation will meet the requirements the BLM.

3. EXISTING WELLS

See Topographic Map "C".

There are numerous wells within a one mile radius of this location. This is a long time established field.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are numerous facilities owned by Chevron within the Rangely Weber Sand Unit. No new production facilities will be required for this new well. All facilities maps are on file with the BLM – Meeker office. A complete set is of the oil (FLOWLINES), water (PROD. WATER) and gas (LP GAS GATHERING) gathering system maps have been submitted with this request. All produced fluids will be transported via 1989' pipeline to the central collection station to the northwest.

5. **LOCATION OF AND TYPE OF WATER SUPPLY AND FUEL GAS**

Water to be used in the drilling of this well will be from existing injection line on location. Fresh water required for boilers and other needs will be trucked from Chevron's domestic water treatment plant. Diesel fuel for drilling will be kept on location in a properly installed above ground diesel tank. (see "TYPICAL RIG LAYOUT – FUEL TRAILER")

There will be no water well drilled on the location site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See "Figure #1 and Figure #2"

Materials to be used in the re-arrangement of this location will be acquired during the re-arrangement. Any extra gravels, sand, or road base will be acquired from Ace West Trucking Inc, 15672 US Hwy 64, Rangely 675-2753 gravel pits, which are privately owned or leased from the Bureau of Land Management (BLM).

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A closed – loop drilling system will be utilized, using a cuttings catch tank, dewatering system, centrifuge system and additional fluid storage. All waste products will be handled by RN Industries, 244 West Hwy 40, Roosevelt, Utah 84066 Dale Price 435-722-2800.

Trash will be confined in a covered container. After the rig is moved off the location the well site will be cleaned and all refuse removed by Rangely Trash Service 675-2878, and hauled to the approved landfill in Rio Blanco County.

A portable toilet will be supplied for human waste. Redi Services LLC, 235 County Rd 15, Meeker Colorado 970-878-4444 services toilets and removes portable toilet waste.

8. **ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT See Figure #1 and Figure #2

The White River Resource Area Manager shall be notified 24 hours in advance before any construction begins on the proposed location site.

10. PLANS FOR RESTORATION OF SURFACE

When all drilling and production activities have been completed, the location site will be reshaped to the original contour.

Any drainage re-routed during the construction activities shall be restored to their original line of flow as near as possible. Cuttings and drilling fluids will be buried in the reserve pit. Prior to burial of cutting and mud, any liquid oil or water will be trucked to the Recovery Plant.

The disturbed area not needed for well operation and access roads will be re-vegetated and rehabilitated per the remainder of this season.

The White River Resource Area Manager will be notified at least 24 hours prior to commencing reclamation work.

COMMON NAME	CULTIVAR	GENUS	SPECIES	97 RMP LBS PLS/ACRE	PERCENTAGE
Annual Sunflower Western	VNS	Helianthus	annus	2	12.50%
Wheatgrass Crested	Arriba	Agropyron	smithii	4	25.00%
Wheatgrass Pubescent	Nordan	Agropyron	cristatum intermediu	3	18.75%
Wheatgrass	Luna	Agropyron	m	4	25.00%
Russian Wildrye	Vinall	Psathyrostachys	junceus	3	18.75%
					100.00%

The seedbed will be prepared by disking following the natural contour. Drill seed on contour at a depth no greater than 1/2 inch. In areas that cannot be drilled, broadcast at double the seeding rate and harrow seed into soil. Certified seed will be used. Fall seeding must be completed after September 1, and prior to prolonged ground frost.

The access roads will be upgraded and maintained as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seek all disturbed areas outside the work area according to the seed mixture chart. Perennial vegetation must be established. Additional work will be required in case of seeding failures, etc.1

When the well is abandoned, the location will be restored to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the back slope. Depressions will not be left that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the seed

mixture chart. The access road and location will be disked prior to seeding. Perennial vegetation must be established.

Clean up and rehabilitation operations will begin as soon as the well is completed and should be finished within 90 – 120 days after well completion depending on seasonal growing months.

The permit holder will treat noxious weeds associated with the project by using Best Management Practices identified in Appendix D of the White River RMP of 1997.

11. SURFACE OWNERSHIP

A check of the records indicates that the surface owner is Bureau of Land Management.

12. OTHER INFORMATION

a) The Chevron will contact either the petroleum engineer or petroleum engineering technician 24 hours prior to the following operations:

- construction of well site
- spudding (including dry hole digger or rat hole rig)
- running and cementing of all casing strings
- pressure testing of BOPE or any casing string
- surface reclamation work.
- commencing completion operations.

b) Chevron will be responsible for informing all persons who are associated with the project operations that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. During operations, if discoveries of any cultural remains, monuments or sites, or any object of antiquity subject to the Antiquities Act of June, 1906 (34 Stat. 225; 16 U.S.C. Secs 431-433), the Archaeological Resources Protection Act of 1979 (PL 96-95), and 43 CFR, Part 3, operations will immediately cease and will be reported directly to the Area Manager. In cases where salvage excavation is necessary, the cost of such excavation shall be borne by the Operator, unless otherwise agreed upon. There are no known archeological, historic, or cultural sites in the immediate area. Much of the Unit area, over the past ninety three years, has been subjected to surface disturbance by roads, pipelines, and other producing surface facilities, and the probability of finding any artifactual remains or architecture of archeological significance is remote. An archeological study of the Rangely Unit area has been conducted and clearance given. An archaeologist's report of federal land within the Unit boundary is on file with the BLM.

c) Pursuant to 43 CFR 10.4(g) Chevron will notify the authorized officer (AO), by telephone, with written confirmation, immediately upon the discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4 (c) and (d), Chevron will stop activities in the vicinity of the discovery and protect it for 30 days or until notified to proceed by the authorized officer.

d) If paleontological materials (fossils) are uncovered during project activities, Chevron will immediately stop activities that might further disturb such materials, and contact the authorized officer (AO). The operator and the authorized officer will consult and determine the best option for avoiding or mitigating paleontological site damage.

e) An H2S Contingency Plan for this field is on file with the BLM. – copy available if requested

f) See attached "**Best Management Practices for Beezley 5X22 and Beezley 6X22 Location**" to be utilized at this well site.

Final reclamation at the completion of well plugging for this location is as follows:

Procedure for the Reclamation of P& A well site [Beezley 5X22 and 6X22](#).

Chevron will notify the WRFO 24 hours prior to any reclamation activities.

Rig anchors will be pulled and removed from location. The well pad will be re-contoured to original contour that blends with the surrounding landform and topsoil re-spread over the entire disturbed site to ensure successful re-vegetation. The topsoiled site will be prepared to provide a seedbed for re-establishment of vegetation. Water breaks will be installed only if absolutely necessary to prevent erosion. The seedbed will be prepared by disking following the natural contour. Drill seed on contour at a depth no greater than 1/2 inch. In areas that cannot be drilled, broadcast at double the seeding rate and harrow seed into soil. Certified seed will be used. Fall seeding must be completed after September 1, and prior to prolonged ground frost.

13. LESSEE'S OR OPERATOR'S REPRESENTATIVE and CERTIFICATION

**Application for Permit to Drill
Certifying Statement**

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

Executed this Day: January 19, 2010

Name: [Signature]

Printed Name: Jeff Roedell

Position Title: Technical Team Leader

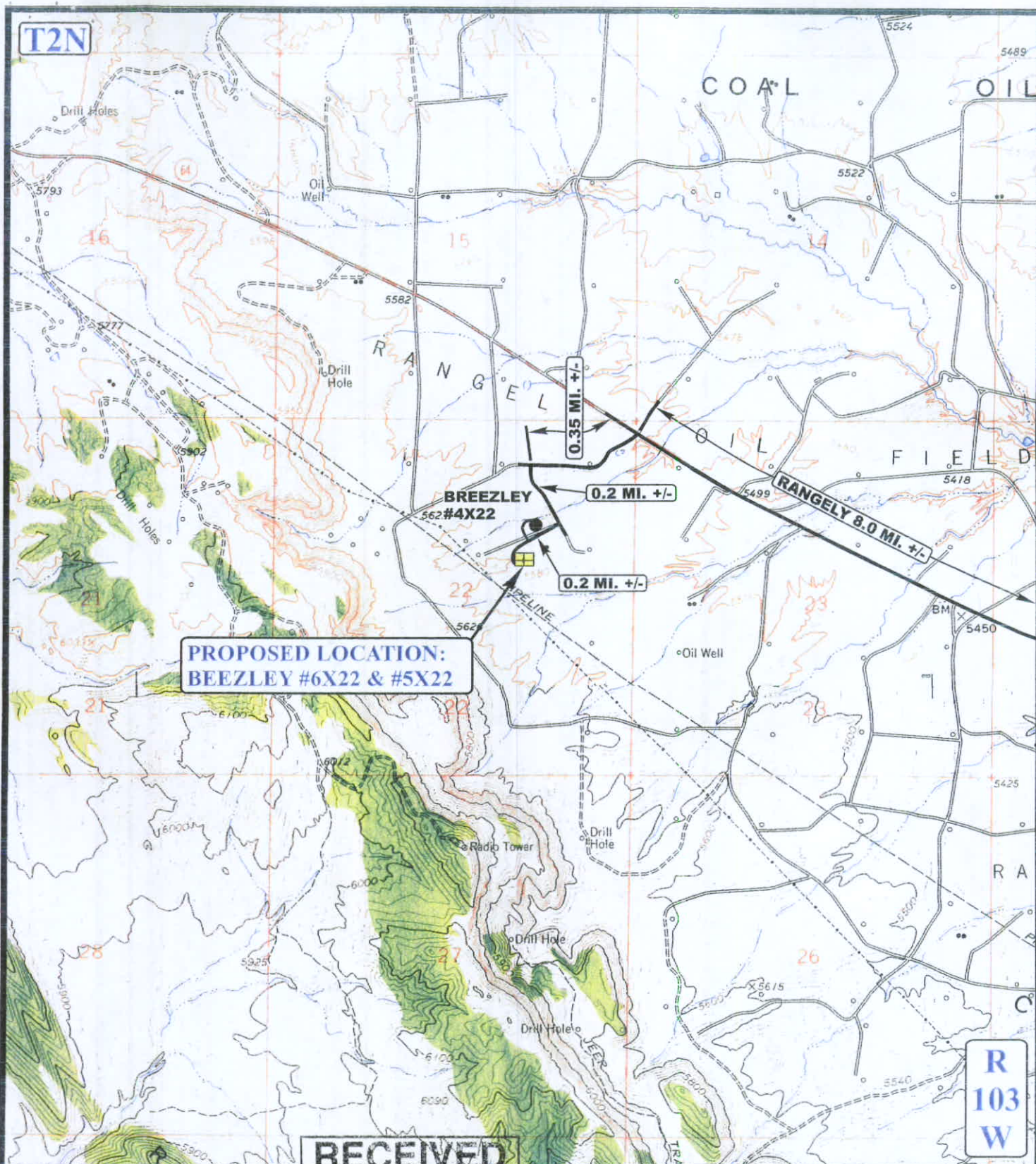
Address: 100 Chevron Road, Chevron Rd, Rangely CO 81648

Telephone: 970-675-3816

Field Representative: Luke Allred - Operations Supervisor

Address: 100 Chevron Rd, Rangely CO

Telephone: 970-675-3846



LEGEND:

EXISTING ROAD

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CHEVRON U.S.A., INC.

BEEZLEY #6X22 & #5X22

SECTION 22, T2N, R103W, 6th P.M.

SW 1/4 NE 1/4



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD
 MAP

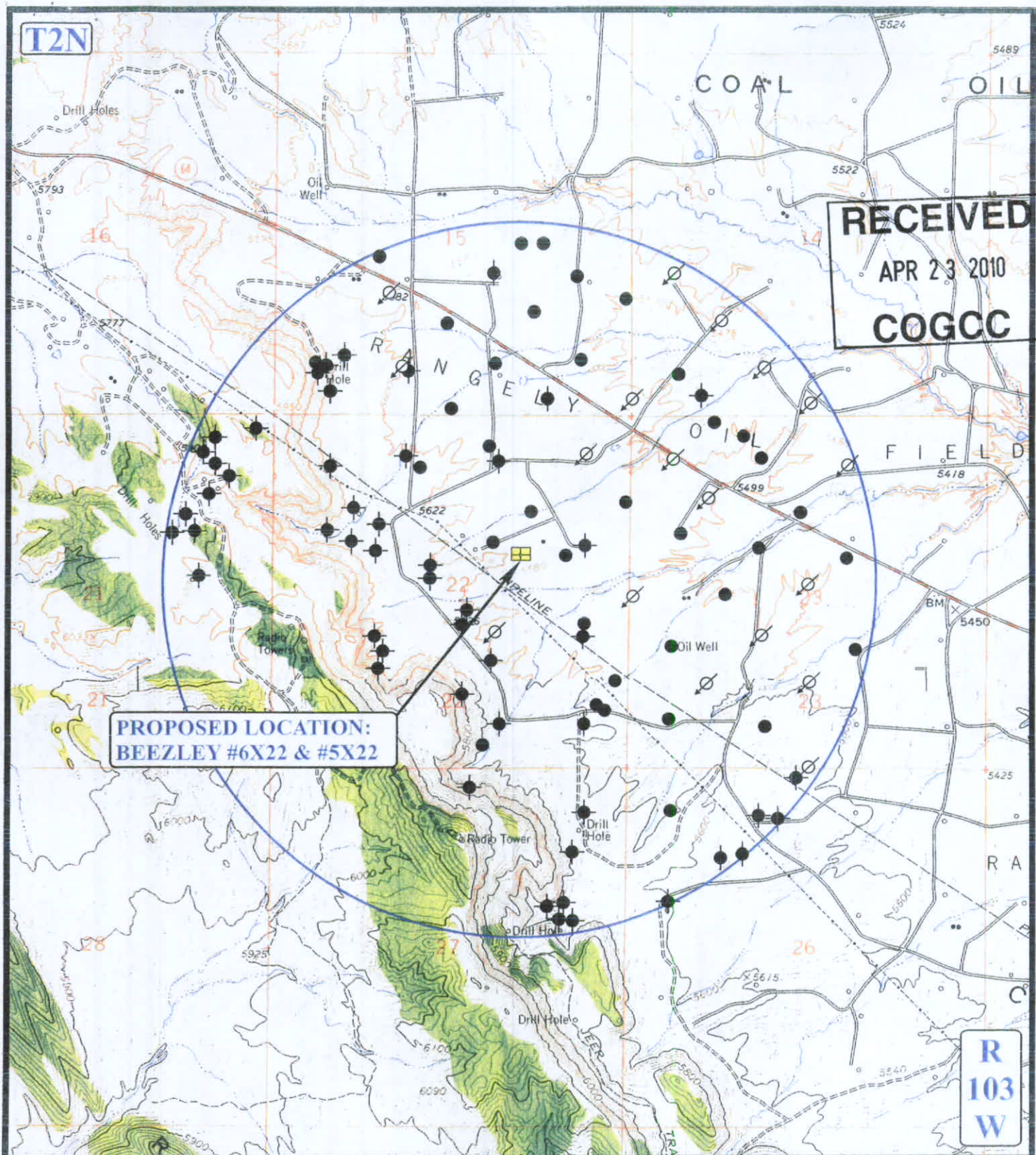
11 19 09
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: Z.L.

REVISED: 00-00-00





LEGEND:

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

CHEVRON U.S.A., INC.

BEEZLEY #6X22 & #5X22
SECTION 22, T2N, R103W, 6th P.M.
SW 1/4 NE 1/4



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85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

12 16 09
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.H. REVISED: 00-00-00



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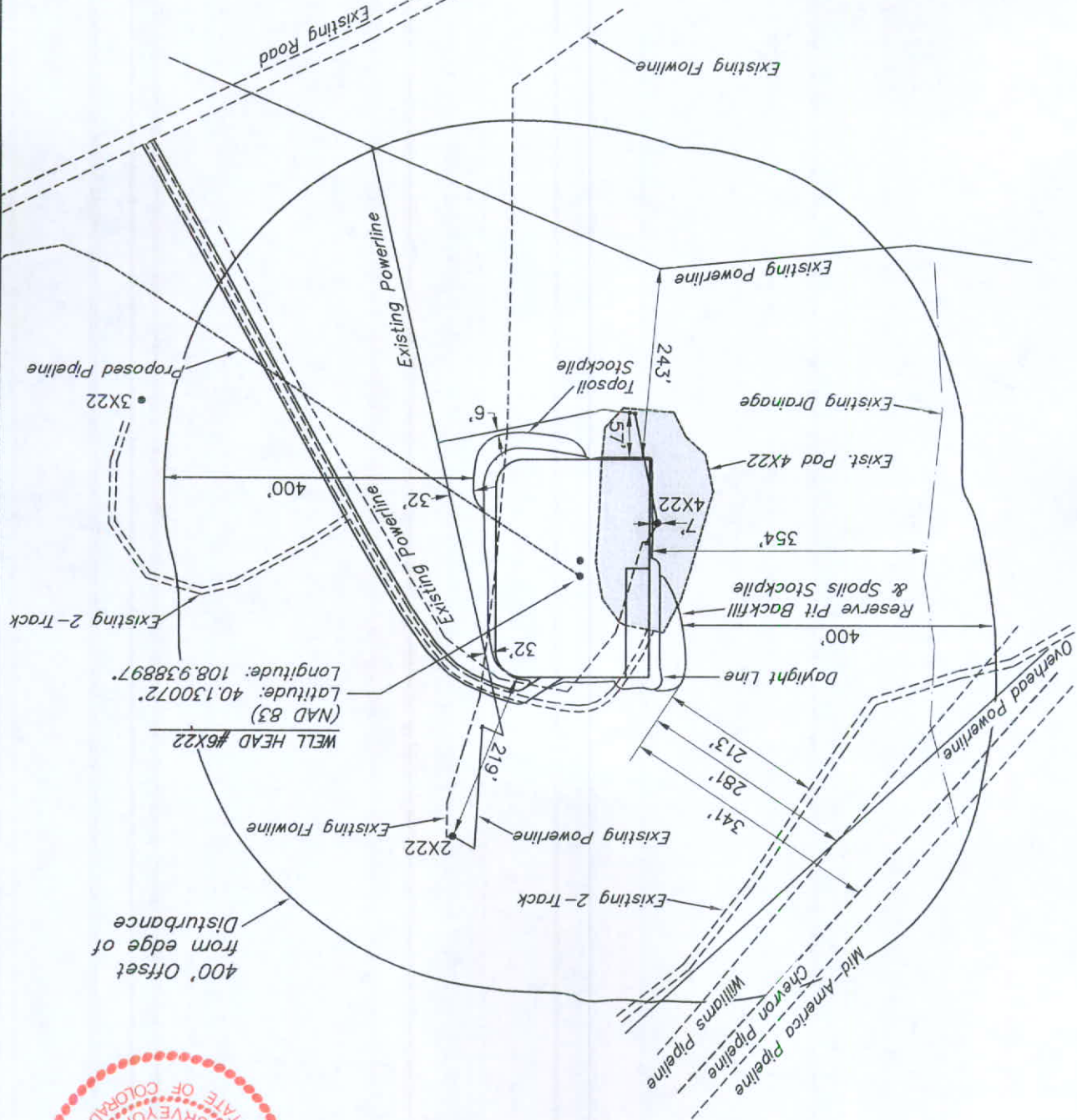
COGCC

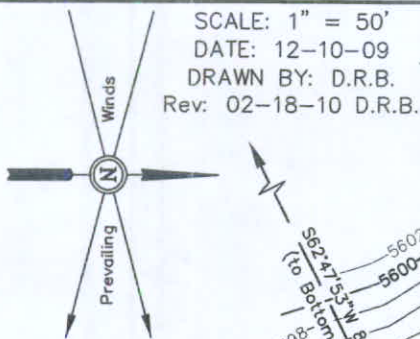
SCALE: 1" = 200'
DATE: 12-10-09
DRAWN BY: D.R.B.
Revised: 02-18-10 D.R.B.

CHEVRON U.S.A., INC.
APPENDUM TO LEGAL PLAT FOR
BEEZLEY #6X22 & #5X22
SECTION 22, T2N, R103W, 6th P.M.
SW 1/4 NE 1/4



UTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



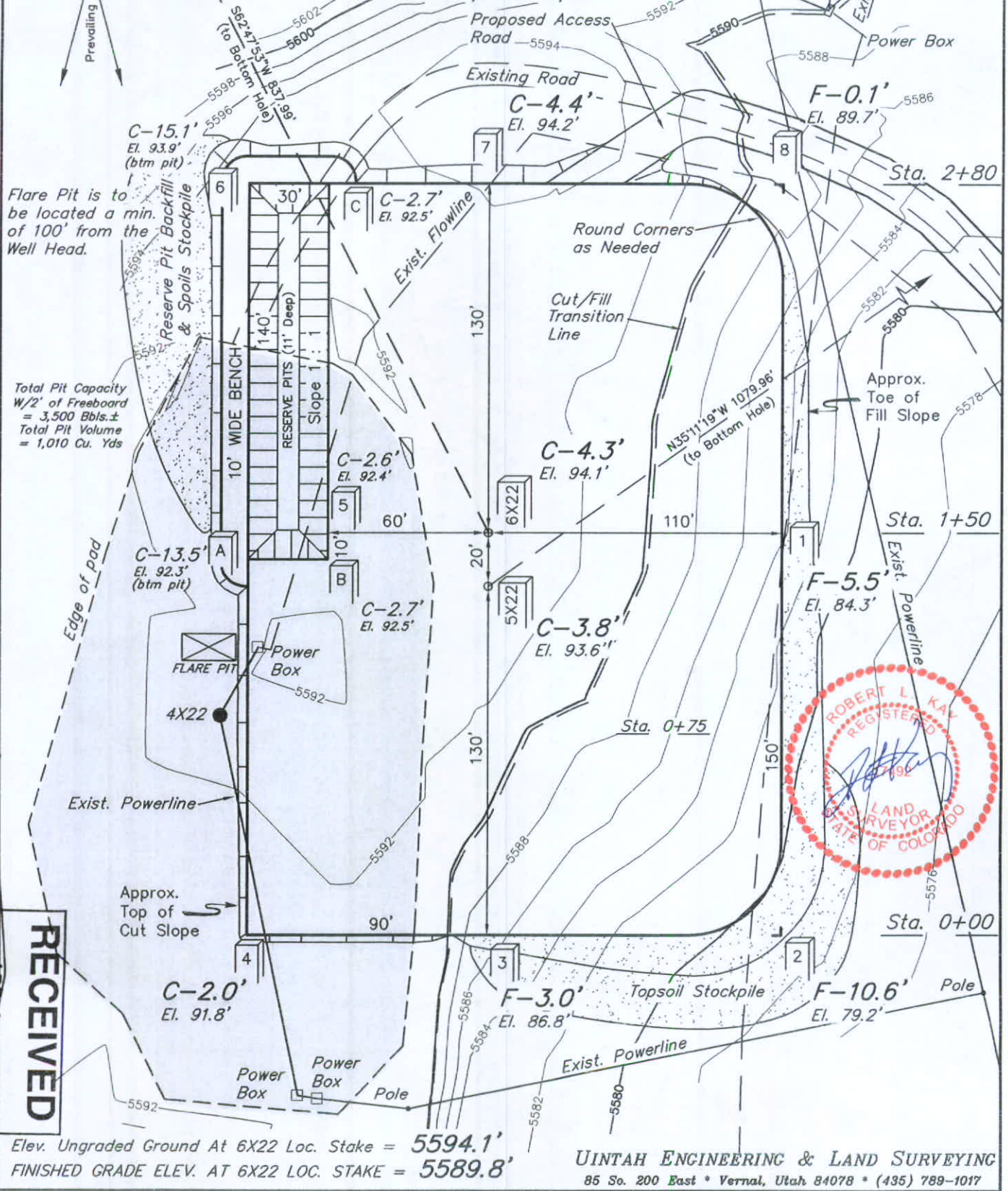


CHEVRON U.S.A., INC.

CONSTRUCTION LAYOUT FOR

BEEZLEY #6X22 & #5X22
SECTION 22, T2N, R103W, 6th P.M.
SW 1/4 NE 1/4

FIGURE #1



ROBERT L. KAY
REGISTERED
LAND SURVEYOR
STATE OF COLORADO

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Elev. Ungraded Ground At 6X22 Loc. Stake = 5594.1'
FINISHED GRADE ELEV. AT 6X22 LOC. STAKE = 5589.8'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

CHEVRON U.S.A., INC.

CONSTRUCTION LAYOUT CROSS SECTION FOR

BEEZLEY #6X22 & #5X22

SECTION 22, T2N, R103W, 6th P.M.

SW 1/4 NE 1/4

FIGURE #2

1" = 20'

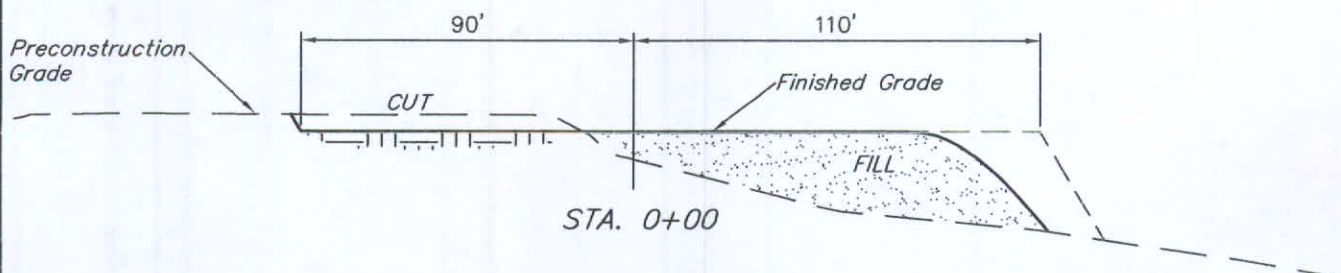
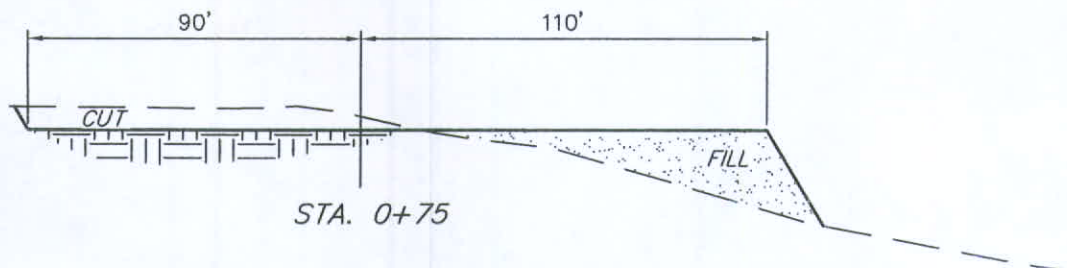
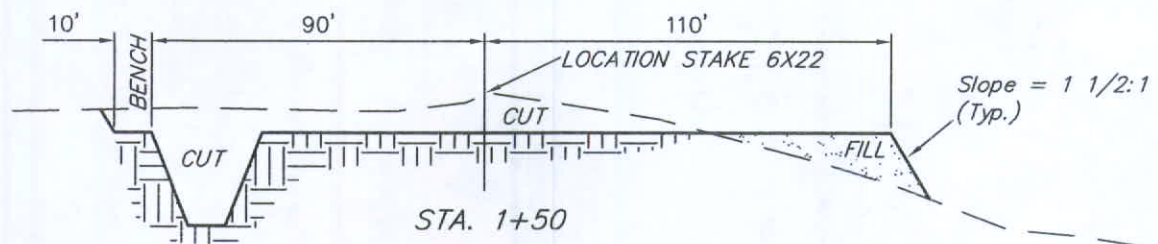
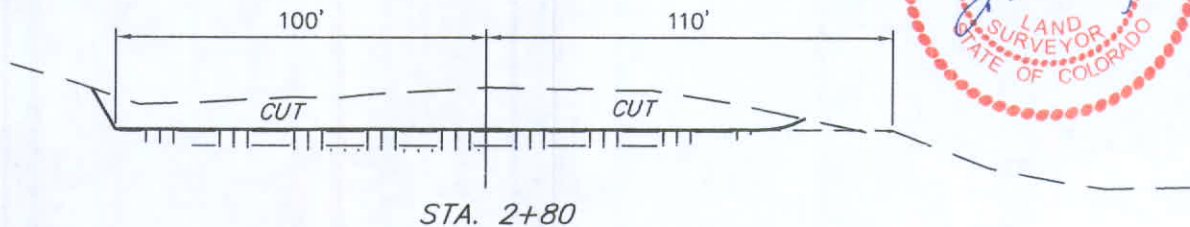
X-Section
Scale

1" = 50'

DATE: 12-10-09

DRAWN BY: D.R.B.

Revised: 02-18-10 D.R.B.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 1.646 ACRES

PIPELINE DISTURBANCE = ± 1.370 ACRES

TOTAL = ± 3.016 ACRES

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 910 Cu. Yds.
(New Construction Only)
Remaining Location = 4,160 Cu. Yds.
TOTAL CUT = 5,070 CU.YDS.
FILL = 3,650 CU.YDS.

EXCESS MATERIAL = 1,420 Cu. Yds.
Topsoil & Pit Backfill = 1,420 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING

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SCALE: 1" = 50'

DATE: 12-10-09

DRAWN BY: D.R.B.

Revised: 02-18-10 D.R.B.

CHEVRON U.S.A., INC.

TYPICAL RIG LAYOUT FOR

BEEZLEY #6X22 & #5X22

SECTION 22, T2N, R103W, 6th P.M.

SW 1/4 NE 1/4

FIGURE #3



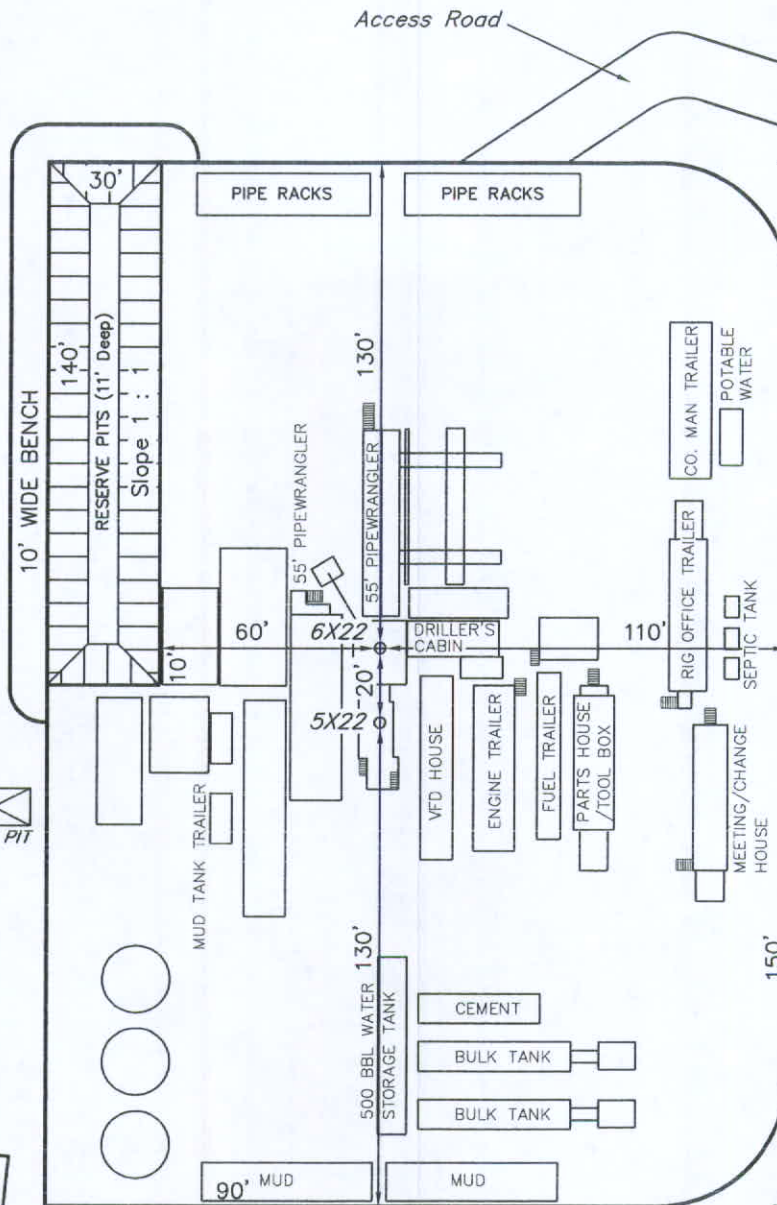
NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

Total Pit Capacity
W/2' of Freeboard
= 3,500 Bbls.±
Total Pit Volume
= 1,010 Cu. Yds



FLARE PIT



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CHEVRON U.S.A., INC.

LOCATION DRAWING FOR

BEEZLEY #6X22 & #5X22
SECTION 22, T2N, R103W, 6th P.M.

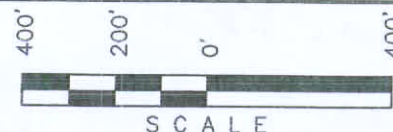


FIGURE #4

2007 UELS Alum.
Cap. Buried 0.3' Deep
Lat: 40.135886°
Long: 108.942453°



Section Line

SW 1/4 NE 1/4 N87°44'17"W - 2640.63' (Meas.)

SCALE: 1" = 400'
DATE: 12-10-09
DRAWN BY: D.R.B.
Revised: 02-18-10 D.R.B.

1/2" Sucker Rod,
Set Marked Stone,
Pile of Stones
Lat: 40.135878°
Long: 108.933011°

B.L.M.
U.S.A.)

PLANT COMMUNITY

- ☐ DISTURBED GRASSLAND
- ☐ NATIVE GRASSLAND
- ☐ SHRUB LAND
- ☐ PLAINS RIPARIAN
- ☐ MOUNTAIN RIPARIAN
- ☐ FOREST LAND
- ☐ WETLANDS AQUATIC
- ☐ ALPINE
- ☐ OTHER (Describe): _____

LINE TABLE		
LINE	BEARING	LENGTH
L1	N12°56'56"W	142.64'
L2	N78°39'47"E	204.31'

B.L.M.
U.S.A.)

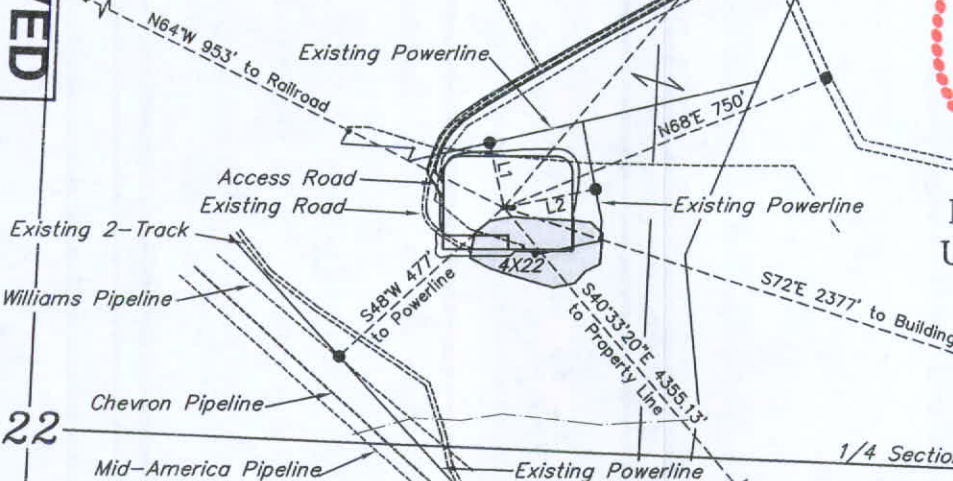
1/16 Section Line
County Road 64



B.L.M.
U.S.A.)

N02°19'31"E - 2634.82' (Meas.)

Section Line



CURRENT LAND USE

CROP LAND: ☐ IRRIGATED ☐ DRY LAND ☐ IMPROVED PASTURE ☐ HAY MEADOW ☐ CRP
NON-CROP LAND: ☐ RANGELAND ☐ TIMBER ☐ RECREATIONAL ☐ OTHER (Describe)
SUBDIVIDED: ☐ INDUSTRIAL ☐ COMMERCIAL ☐ RESIDENTIAL

FUTURE LAND USE

CROP LAND: ☐ IRRIGATED ☐ DRY LAND ☐ IMPROVED PASTURE ☐ HAY MEADOW ☐ CRP
NON-CROP LAND: ☐ RANGELAND ☐ TIMBER ☐ RECREATIONAL ☐ OTHER (Describe)
SUBDIVIDED: ☐ INDUSTRIAL ☐ COMMERCIAL ☐ RESIDENTIAL

2007 UELS Alum.
Cap. 0.4' High,
Steel Post
Lat: 40.128647°
Long: 108.933033°

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

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NINE POINT DRILLING PLAN

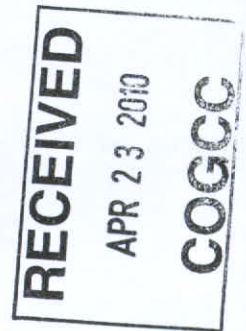
Beezley 6X22

Rangely Weber Sand Unit

Directional Well

Surface: 2118' FNL & 1642' FEL, Section 22, T2N, R103W
Bottomhole: 2530' FNL & 2371' FEL, Section 22, T2N, R103W

Rio Blanco County, CO



a. **NAMES & ESTIMATED TOPS OF GEOLOGIC GROUPS:**

Name	Estimated Tops
Mancos group	Surface

b. **NAMES, ESTIMATED TOPS & THICKNESS OF FORMATIONS:**
(based upon est. surface elev. of 5,594')

Name	Estimated Tops	Thickness
Mancos	Surface	2,820'
Frontier	3,534' TVD/ 3,554' MD	353'
Dakota	3,905' TVD/ 3,931' MD	85'
Morrison	4,017' TVD/ 4,045' MD	683'
Curtis	4,686' TVD/ 4,726' MD	112'
Entrada	4,797' TVD/ 4,839' MD	140'
Carmel	4,924' TVD/ 4,968' MD	61'
Navajo	5,630' TVD/ 5,687' MD	591'
Chinle	5,741' TVD/ 5,780' MD	109'
Shinarump	5,954' TVD/ 5,088' MD	98'
Moenkopi	5,831' TVD/ 5,892' MD	646'
Weber	6,507' TVD/ 6,580' MD	668'
TD	6,764' TVD/ 6,841' MD	
Base of Weber	7,175' TVD/ 7,260' MD	

c. **PRESSURE CONTROL EQUIPMENT:**

For drilling surface hole to 2000':

No BOP equipment required. A diverter will be utilized if a Surface Hole Drilling Rig equipped to drill with air/air mist is used to preset surface casing.

For drilling through 9 5/8" surface casing to TD:

Maximum anticipated surface pressure is <3000 psi.

Pressure control equipment shall be in accordance with BLM minimum standards.

A casing head with an 11", 3000 psi flange will be welded onto the 9 5/8" surface casing.

BOP stack will consist of either 2 single gate or a double gate and annular preventer. The gate preventers will be equipped with pipe rams on bottom and blind rams on top. The choke and kill lines will be connected to outlets below the bottom rams, utilizing either the ram body outlet or a drilling spool with side outlets. Co-flex hose will be utilized from the BOP to the choke manifold. The BOP stack will be 11" or 13.625" bore, 3000 psi working pressure or greater. The choke and kill lines will be 3" bore, 3000 psi working pressure or greater. Please refer to attached schematic.

Test procedure and frequency shall be in accordance with BLM minimum standards for 3000 psi equipment, per BLM Oil & Gas Order #2.

d. **PROPOSED CASING PROGRAM, DRILLED HOLE SIZE:**

Casing Information: All casing will be new pipe and tested to 1500 psi.

Casing	Weight	Grade	Conn.	Stage	Centralizers
9 5/8"	36.0#/ft	K-55	LTC	No	*
7"	23.0#/ft	J-55	LTC	No	As Needed

*Centralizers will be placed on the bottom three joints and every fourth joint thereafter.

Casing Design Information (9 5/8" casing @ 2000'):

Collapse value for new pipe: 2020 psi Actual Load: 862 psi S.F.: 2.3

Burst value for new pipe: 3520 psi Actual Load: 1169 psi* S.F.: 3.0

Tension value for new pipe: 489,000# Actual Load: 61,000# S.F.: 8.0

*Surface casing burst load based on a formation fracture gradient of 1.0 psi/ft.

(7" casing @ top of Weber at 6507' TVD):

Collapse value for new pipe: 3270 psi Actual Load: 3012 psi S.F.: 1.1

Burst value for new pipe: 4360 psi Actual Load: 1869 psi S.F.: 2.3

Tension value for new pipe: 313,000# Actual Load: 125,000# S.F.: 2.5

Surface Hole (0'-2000')

Drilling of the surface hole will be with a Surface Hole drilling rig equipped to drill with air/air mist if the rig is available. Hole size will be in the 12 1/4" - 11" range at the discretion of the drilling contractor.

Variance to Onshore Oil and Gas Order No. 2 III -E. Special Drilling Operations which addresses additional drilling equipment required for drilling with air/gas is requested for the Surface Hole drilling rig which may be used to preset surface casing. To our knowledge, it is possible (but not probable) that minor amounts of shallow gas (<2000') could be encountered while drilling in this area. The Mancos formation was oil productive in the 1920's but has been mostly depleted and there are no productive Mancos wells with 1/4 mile of the proposed well. Consequently, the majority of the equipment specified in the Special Drilling Operations is not necessary to drill surface holes (<2000') in this area. Auxiliary Equipment to be used is outlined in Section 8. Air/gas will not be used to drill below surface casing.

If the Surface Hole drilling rig is not available to preset the surface casing a conventional rotary drilling rig will be used to drill the surface hole. A 12 1/4" hole will be drilled utilizing fresh water mud.

Production Hole (2000' - 6507' TVD)

Drilling below surface casing will be with conventional rotary equipment utilizing fresh water mud. Hole size will be 8 3/4".

Open Hole (6507' - 6764' TVD - TD)

The Weber Payzone will be drilled and completed open hole utilizing NaCl brine. Hole size will be 6-1/8".

e. AMOUNT AND TYPES OF CEMENT TO BE USED SETTING CASING STRING:

Casing	Cement
9 5/8"	Two-slurry system with oilfield type cement circulated in place. Lead: 35:65 Poz: Class "G" cement mixed at 12.7 ppg with a yield of 1.97cf/sx. Theoretical volume of lead cement is 480 sacks including 80% excess in the open hole. Tail: Class "G" cement mixed at 15.8 ppg with a yield of 1.17cf/sx. Theoretical volume of tail cement is 290 sacks. Volumes based on calculated plus 100% excess. Tail plug used. Allowed to set under pressure. Theoretical open hole annular volume is 626 cu ft.
7"	Two-slurry system with oilfield "light weight" cement with additives ahead of oilfield premium cement with additives circulated in place. Lead: Class G cement mixed at 11.0 ppg with a yield of 3.52cf/sx. Theoretical volume of lead cement is 340 sacks including 80% excess in the open hole. Tail: LiteCRETE Blend mixed at 12.5 ppg with a yield of 1.61cf/sx. Theoretical volume of tail cement is 260 sacks including 80% excess in the open hole. If cement does not reach the surface in cementing the production string, a bond log will be run to determine the

top of cement (TOC) to ensure isolation between the Frontier formation and the surface casing shoe.

f. TYPES AND CHARACTERISTICS OF PROPOSED CIRCULATING MEDIUM:

Surface Hole (0'-2000')

Surface hole will be drilled with air/air mist if a Surface Hole drilling rig is utilized to preset surface casing prior to moving in and rigging up a conventional rotary drilling rig.

Mud circulating equipment and materials as specified in Onshore Order #2, III - E will not be kept on location due to the fact that the Surface Hole drilling rig equipped to drill with air/air mist is not equipped to circulate mud.

If a Surface Hole drilling rig is not utilized to preset the surface casing a conventional rotary rig will be used to drill the surface hole. Water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, and polymers will be used. No chromate's will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is ± 9.0 ppg.

A minimum quantity of weighting material will be kept on location

Production Hole (2000'-6507' TVD')

Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, and polymers. No chromate's will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is ± 10.0 ppg.

A minimum quantity of weighting material will be kept on location.

H2S and CO2 detector will be used at all times during drilling operation.

Open Hole (6507' – 6764' TVD'-TD)

The Weber Payzone will be drilled and completed open hole utilizing NaCl brine.

g. TESTING, LOGGING AND CORING PROCEDURES:

Logging:

Electric Logging: Cased Hole logs / gamma ray and porosity
Open Hole logs (possible)

Coring: None planned.

Testing: None planned.

h. EXPECTED BOTTOM HOLE PRESSURES, ABNORMAL PRESSURES, TEMPERATURES OR POTENTIAL HAZARDS:

Normal pressure gradient to top of Weber. Offset pressure history indicates that the pressure gradient in the Weber should be between a minimum of 0.32 psi/ft to a maximum of 0.50 psi/ft.

Maximum expected BHP @ TD: ~ 3000 psi

Maximum expected BHT @ TD: ~ 160° F

Hydrogen Sulfide:

Hydrogen sulfide (H₂S) gas exists in the Weber Formation within the Rangely Field. Concentrations vary across the Field (+/-100-700 ppm) due to a long history of production in conjunction with water and CO₂ injection.

Chevron's "H₂S Contingency Plan" will be adhered to minimize any potential hazard.

Possible Aquifers: None

Oil: Probable in Weber @ 6507' – 6764' TVD

Gas: Probable minor gas in Weber @ 6507' TVD decreasing to TD.

Protection of oil, gas, water, or other mineral bearing formations:

Protection shall be accomplished by cementing surface casing back to the surface. Production casing will be cemented with a sufficient cement volume to attempt to bring cement back to surface. If cement does not reach the surface in cementing the production string, a bond log will be run to determine the top of cement (TOC) to ensure isolation between the Frontier formation and the surface casing shoe.

i. OTHER INFORMATION:

Auxiliary Equipment

Conventional Rotary Drilling Rig

Geograph

PVT-Flowmeter

Desilter

Desander

Full Opening Safety Valve

Upper Kelly Valve

Lower Kelly Valve

Surface Hole Rig Equipped to Drill with Air/Air Mist

Diverter; 100' Discharge Line

Closed-Loop Drilling System

Additional Fluid Storage

Cuttings Catch Tank

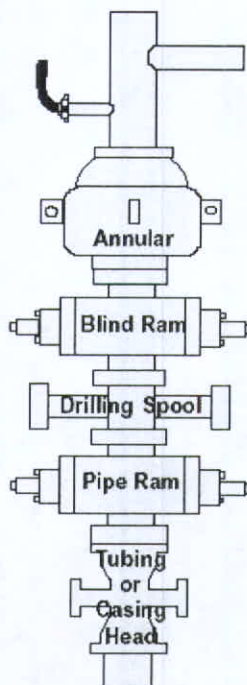
Dewatering System

Centrifuge System

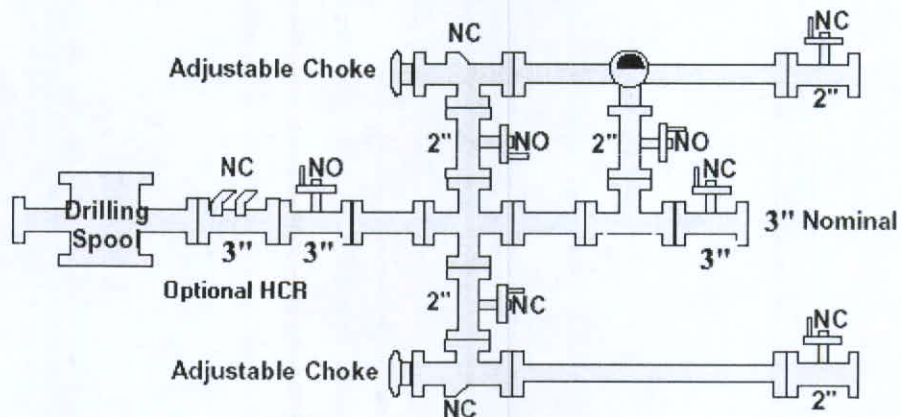
BOP Schematic

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Class III BOP Stack



Class III Choke Manifold



NO Normally Open
NC Normally Closed



Scientific Drilling
Directional Drilling Operations

Project: Rangely County Colorado
Site: SEC22-T2N-R103W
Well: BEEZLEY 6X22
Wellbore: Wellbore #1
Plan: Plan 2 (BEEZLEY 6X22/Wellbore #1)

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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
2080.0	0.00	0.00	2080.0	0.0	0.0	0.00	0.00	0.0	
2617.2	10.74	242.84	2614.1	-22.9	-44.7	2.00	242.84	50.2	
6841.2	10.74	242.84	6764.0	-382.3	-745.3	0.00	0.00	837.7	PBHL 6X22



Azimuth to Grid North
True North: 2.22°
Magnetic North: 13.26°
Magnetic Field
Strength: 52658.3nT
Dip Angle: 66.13°
Date: 2009/11/17
Model: IGRF200510

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL 6X22	6764.0	-382.3	-745.3	1308489.50	2037913.45	40° 7' 44.194 N	108° 56' 29.432 W	Circle (Radius: 100.0)

Rangely County Colorado

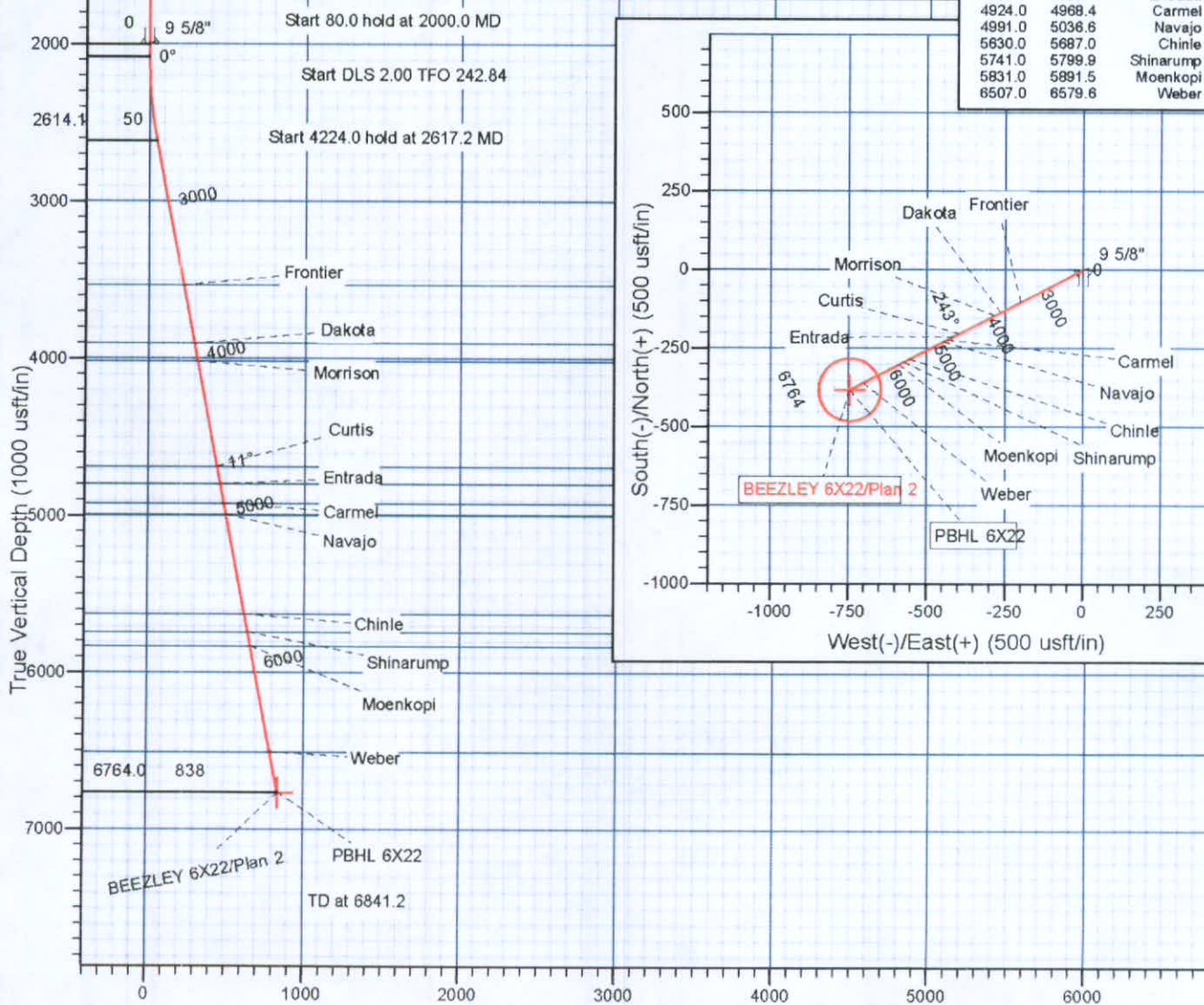
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

WELL DETAILS: BEEZLEY 6X22

Northing	Easting	Latitude	Longitude
1308871.85	2038658.76	40° 7' 48.255 N	108° 56' 20.035 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3534.0	3553.6	Frontier
3905.0	3931.2	Dakota
4017.0	4045.2	Morrison
4686.0	4726.1	Curtis
4797.0	4839.1	Entrada
4924.0	4968.4	Carmel
4991.0	5036.6	Navajo
5630.0	5687.0	Chinle
5741.0	5799.9	Shinarump
5831.0	5891.5	Moenkopi
6507.0	6579.6	Weber



Vertical Section at 242.84° (1000 usf/in)

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Best Management Practices for Beezley 5x22 and 6x22 Location

Site Selection:

Site was selected to utilize one location for 2 directionally drilled wells, and this location is located along an existing lease road and utilizing part of a existing well pad. No additional road disturbance will be necessary. These 2 (two) producing wells will have gathering lines run to a centralized production facility placed offsite, no large haul truck will be need to collect fluids.

Erosion Control:

Topsoil Salvage and Storage: "Topsoil will be stockpiled where no vehicle traffic will cross topsoil mounds. Stockpiles shall be protected from wind and water erosion through the use of suitable weed-free mulch, seeding, and other measures as approved by BLM."

"Erosion and polluted runoff from oil and gas operations will be controlled. All Storm Water Discharge Permitting Regulations and BMP's currently required by the State of Colorado will be strictly complied with, particularly when streams may be affected." To minimize sedimentation of drainage channels and wetlands during the interim period between construction activity and final reclamation, temporary erosion and sediment control measures should be applied." If secondary containment will be engineered to handle 150% of calculated volumes per Chevron policy.

"Surface disturbance minimization. Existing roads shall be used to the greatest extent practicable to avoid erosion and minimize the land area devoted to oil and gas operations. Roadbeds shall be engineered to avoid or minimize impacts to riparian areas or wetlands to the extent practicable. Unavoidable impacts shall be mitigated. To the greatest extent practicable, all vehicles used by the operator, contractors, and other parties associated with the well shall not travel outside of the original access road boundary"

Wildlife Issues:

Design powerlines to minimize raptor electrocution risk. "Incorporate powerline and pole or tower designs to minimize the risk of raptor electrocution."

Health and Safety:

Chevron has a zero-tolerance policy regarding drug usage. All subcontractors prior to working in the Rangely Weber Sand Unit will have to demonstrate active drug, alcohol, and safety programs regarding hiring, training and conducting spot-checking programs. Chevron has a education and compliance program to help reinforce the zero-tolerance policy."

Train employees in safety practices; ensure use of protective equipment.

Emergency Response Plan: Hazardous/toxic materials safety: "Train all employees in effective environmental health and safety practices and ensure that proper personal protective equipment is available and being used"