

**CHEVRON U.S.A., INC.**

Well location, SKR 598-08BVW #4 (SURFACE LOCATION), located as shown in the Lot 8 of Section 8, T5S, R98W, 6th P.M., Garfield County, Colorado.

**BASIS OF ELEVATION**

SPOT ELEVATION LOCATED AT THE EAST 1/4 CORNER OF SECTION 17, T5S, R98W, 6th P.M. TAKEN FROM THE DESERT GULCH QUADRANGLE, GARFIELD COUNTY., COLORADO 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6392 FEET.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S78°17'35"W	491.69'



**CERTIFICATE**

THIS IS TO 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.

REVISED: 06-18-13 C.I.  
REVISED: 06-14-13  
REVISED: 06-05-13  
REVISED: 06-03-13

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 17492  
STATE OF COLORADO

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED.  
(Not Set on Ground.)

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

PDOP = 2.2

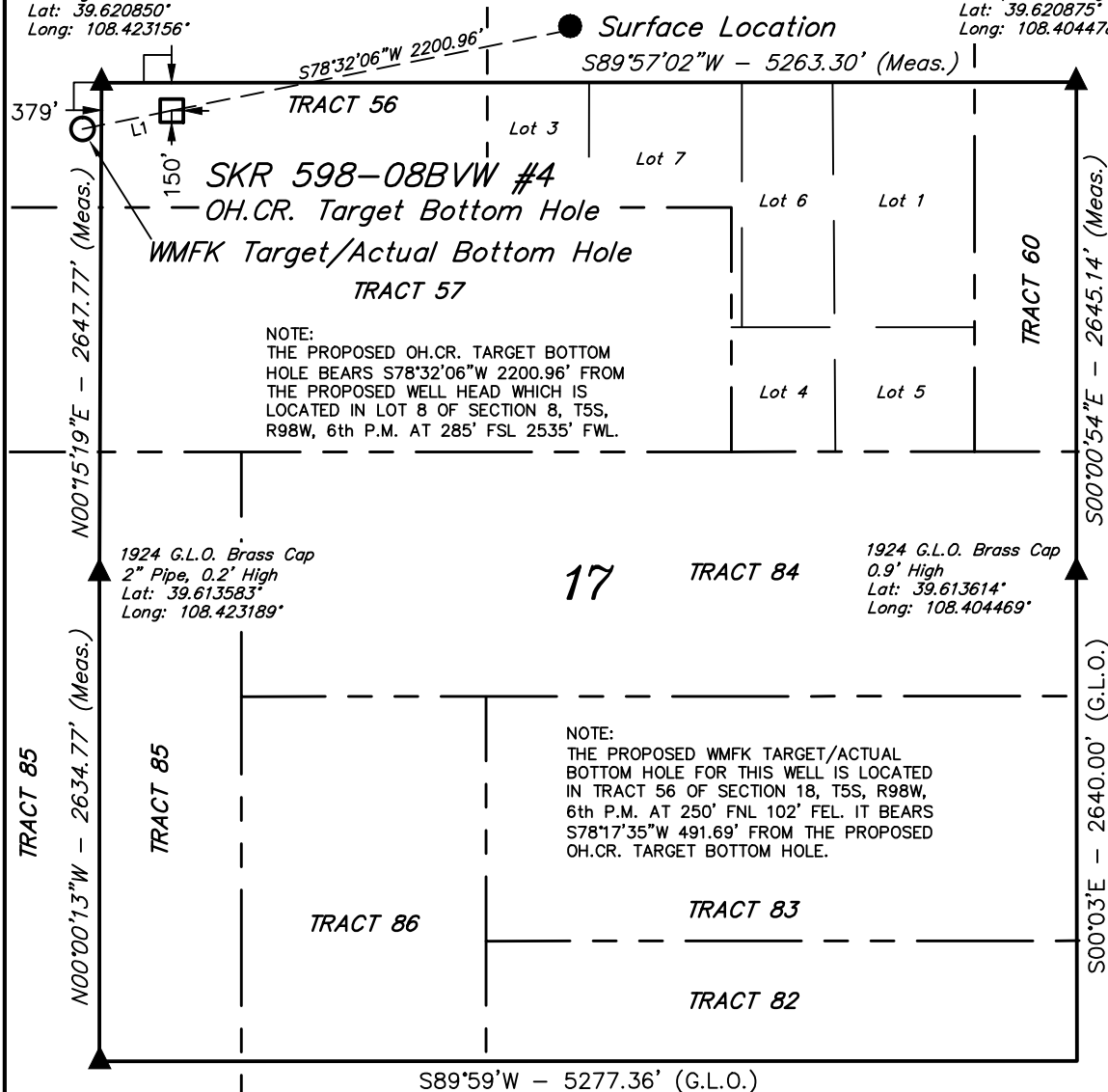
NAD 83 (SURFACE LOCATION)	
LATITUDE	= 39°37'17.92" (39.621644)
LONGITUDE	= 108°24'50.98" (108.414161)
NAD 27 (SURFACE LOCATION)	
LATITUDE	= 39°37'18.01" (39.621669)
LONGITUDE	= 108°24'48.65" (108.413514)

SCALE 1" = 1000'	DATE SURVEYED: 05-22-13	DATE DRAWN: 05-31-13
PARTY B.B. J.H. M.D.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE CHEVRON U.S.A., INC.	

1924 G.L.O. Brass Cap  
1.0' High  
Lat: 39.620850°  
Long: 108.423156°

T5S, R98W, 6th P.M.

1924 G.L.O. Brass Cap  
2" Pipe, 0.7' High  
Lat: 39.620875°  
Long: 108.404478°



1924 G.L.O. Brass Cap  
1.3' High  
Lat: 39.606353°  
Long: 108.423181°

#### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (OH.C.R. TARGET BOTTOM HOLE)	
LATITUDE	= 39°37'13.58" (39.620439)
LONGITUDE	= 108°25'18.53" (108.421814)
NAD 27 (OH.C.R. TARGET BOTTOM HOLE)	
LATITUDE	= 39°37'13.67" (39.620464)
LONGITUDE	= 108°25'16.20" (108.421167)

CHEVRON U.S.A., INC.

Well location, SKR 598-08BVW #4 (OH.C.R. TARGET BOTTOM HOLE), located as shown in TRACT 56 of Section 17, T5S, R98W, 6th P.M., Garfield County, Colorado.

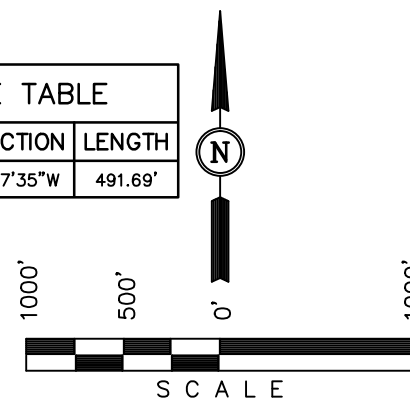
#### BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE EAST 1/4 CORNER OF SECTION 17, T5S, R98W, 6th P.M. TAKEN FROM THE DESERT GULCH QUADRANGLE, GARFIELD COUNTY., COLORADO 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6392 FEET.

#### BASIS OF BEARINGS

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S78°17'35"W	491.69'



#### CERTIFICATE

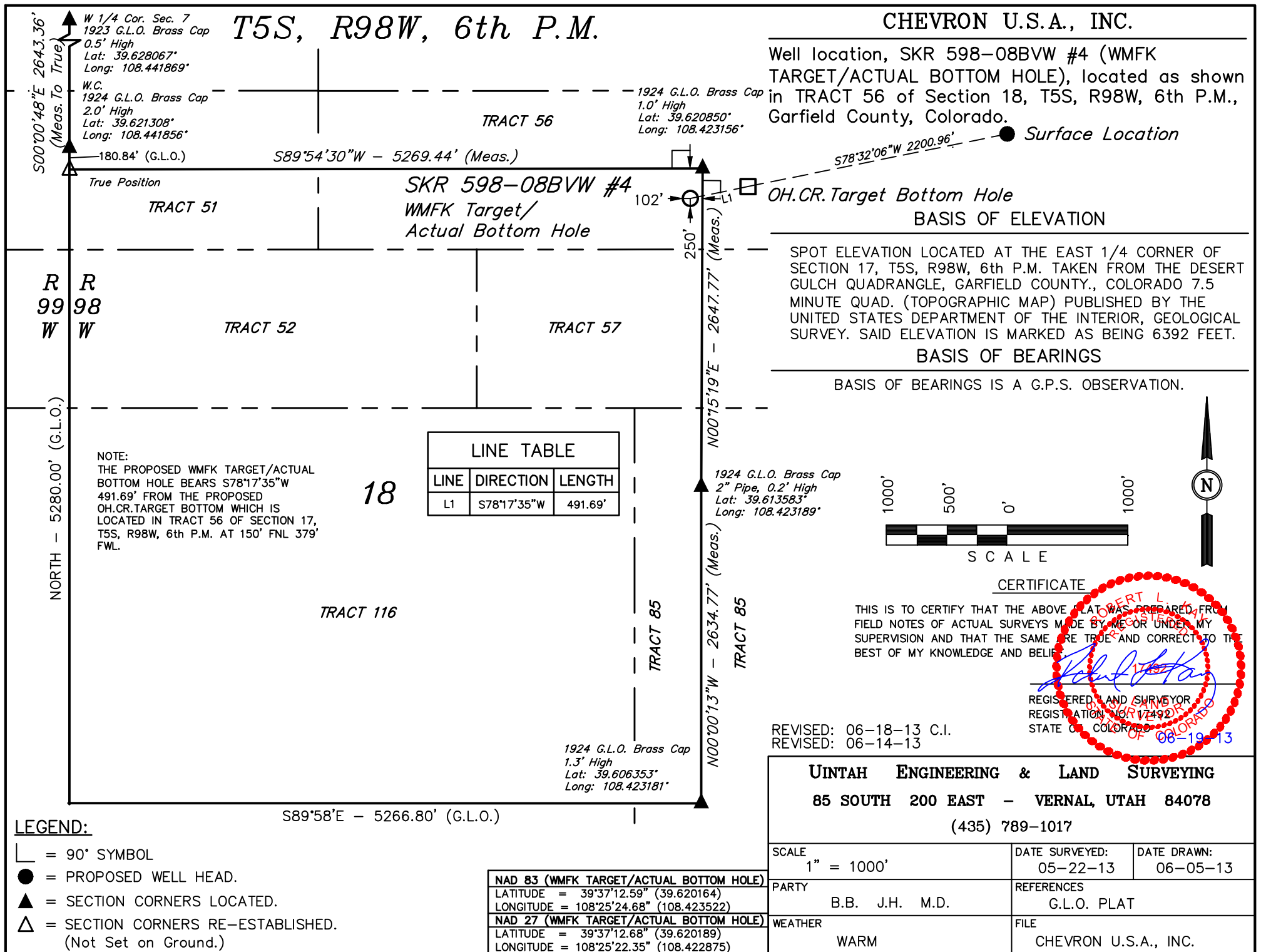
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REGISTERED LAND SURVEYOR  
REGISTRATION NO. 17492  
STATE OF COLORADO

REVISED: 06-18-13 C.I.  
REVISED: 06-05-13  
REVISED: 06-03-13

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-22-13	DATE DRAWN: 05-31-13
PARTY B.B. J.H. M.D.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE CHEVRON U.S.A., INC.	



# CHEVRON U.S.A., INC.

## CONSTRUCTION LAYOUT FOR

SKR 598-08BVW

SECTION 8, T5S, R98W, 6th P.M.

SE 1/4 SW 1/4

FIGURE #1

SCALE: 1" = 50'

DATE: 02-20-13

DRAWN BY: C.J.C.

REV.: 04-03-13 M.D.

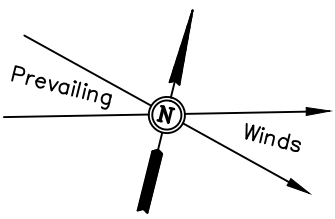
REV.: 04-12-13 M.D.

REV.: 04-26-13 M.D.

REV.: 04-30-13 M.D.

REV.: 05-10-13 M.D.

REV.: 05-17-13 M.D.



Existing Buried Pipeline & Fiber Optics

Existing Valve Box

Proposed Pipeline

Existing Access Road

Existing Ditch

Construct Ditch

"D" R37'

Cut Slope 2:1 (TYP.)

SLOPE VARIES

PROPOSED ACCESS WIDENING

"D"

"C"

Gate

N. Az. 346°02'09"

160'

Edge of Existing Pad

Existing Fence To Be Removed

2' Past Rig Substructure

Refer to Figure 9 for Soil Preparation in Rig Substructure Area.

#2

#1

#3

#4

10' (Typ.)

N. Az. 256°02'09"

Proposed Well #4  
NAD 83  
Lat: 39°37'17.92"N  
Long: 108°24'50.98"W

Existing Powerline

Edge of Existing Pad

Existing Fence To Be Removed

2' Past Rig Substructure

16'

158'

194'

115'

117'

Gate

"A"

Existing Fence

Section 8

Section 17

Existing Buried Pipeline & Fiber Optics

Section Line

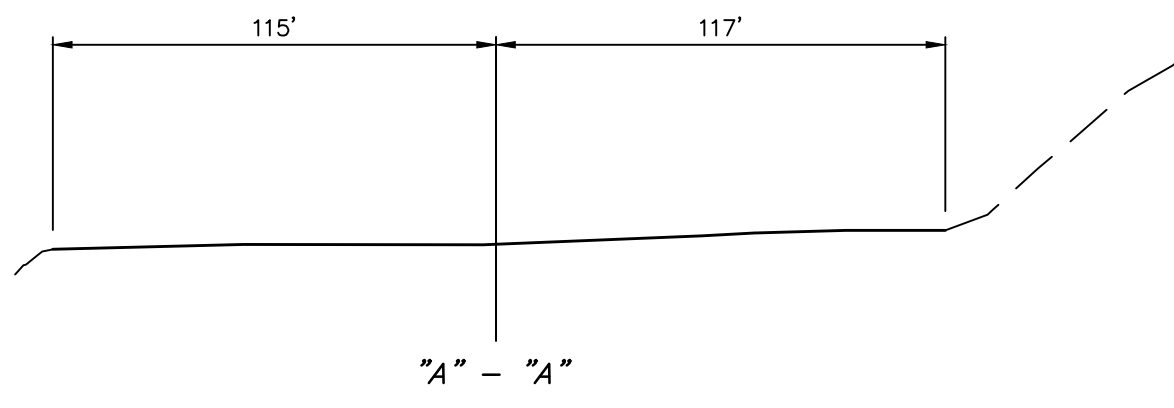
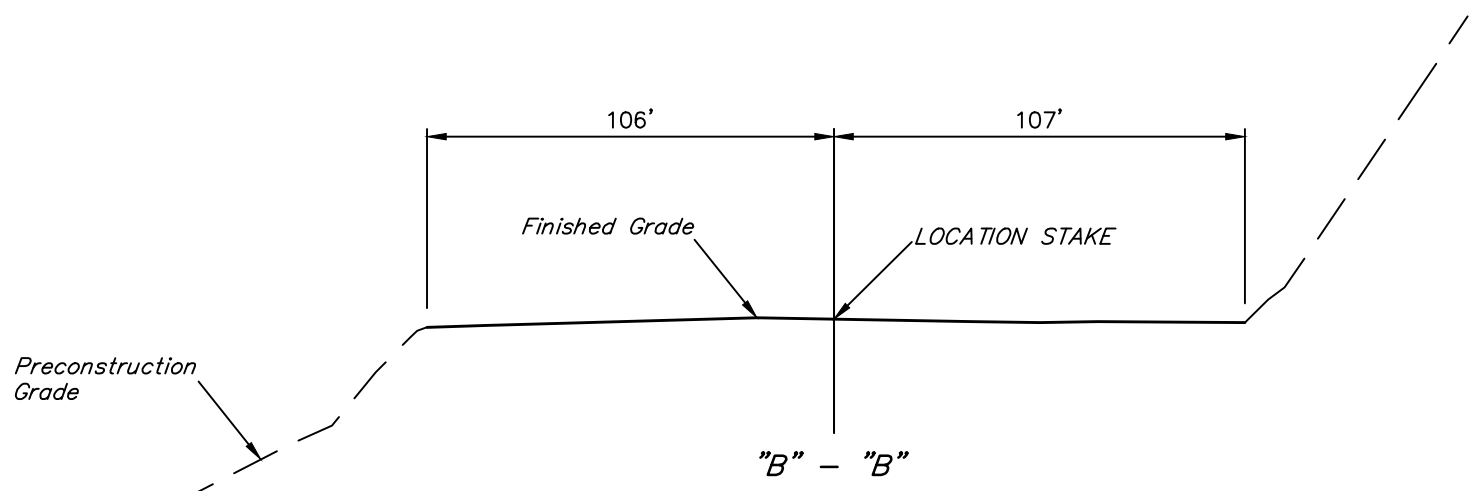
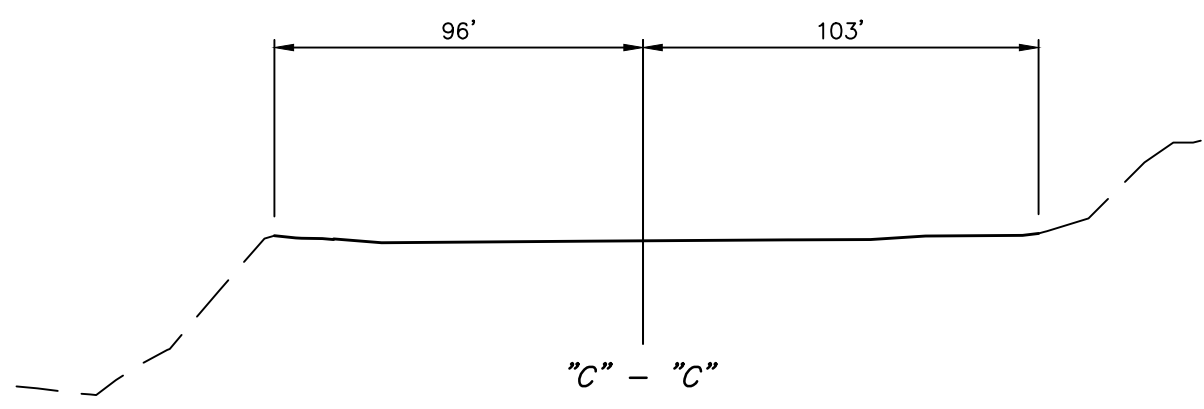
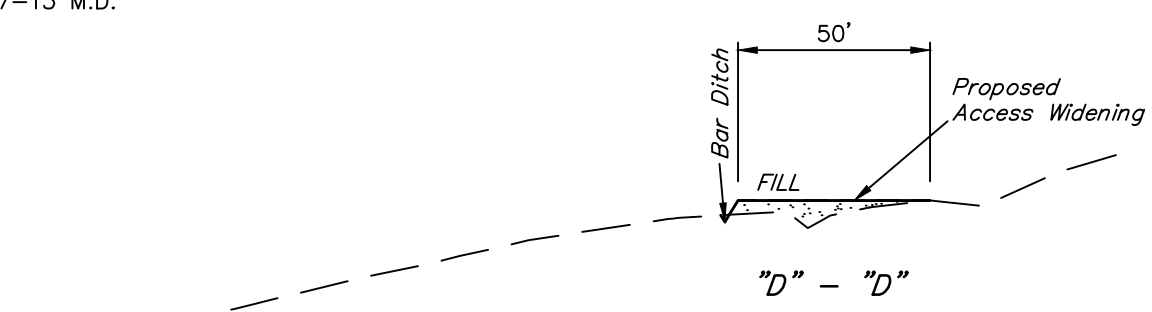
FINISH GRADE ELEV. AT PAD CENTER = 6549.6'

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

1" = 20'  
X-Section  
Scale  
1" = 50'  
DATE: 05-14-13  
DRAWN BY: M.D.  
REV.: 05-17-13 M.D.

CHEVRON U.S.A., INC.  
CONSTRUCTION LAYOUT CROSS SECTIONS FOR  
SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #2



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

APPROXIMATE ACREAGE  
ACCESS ROAD WIDENING DISTURBANCE = ± 0.044 ACRES

APPROXIMATE YARDAGES FOR ROAD WIDENING		
(6") Topsoil Stripping	=	40 Cu. Yds.
Remaining Location	=	50 Cu. Yds.
TOTAL CUT	=	90 CU. YDS.
FILL	=	10 CU. YDS.

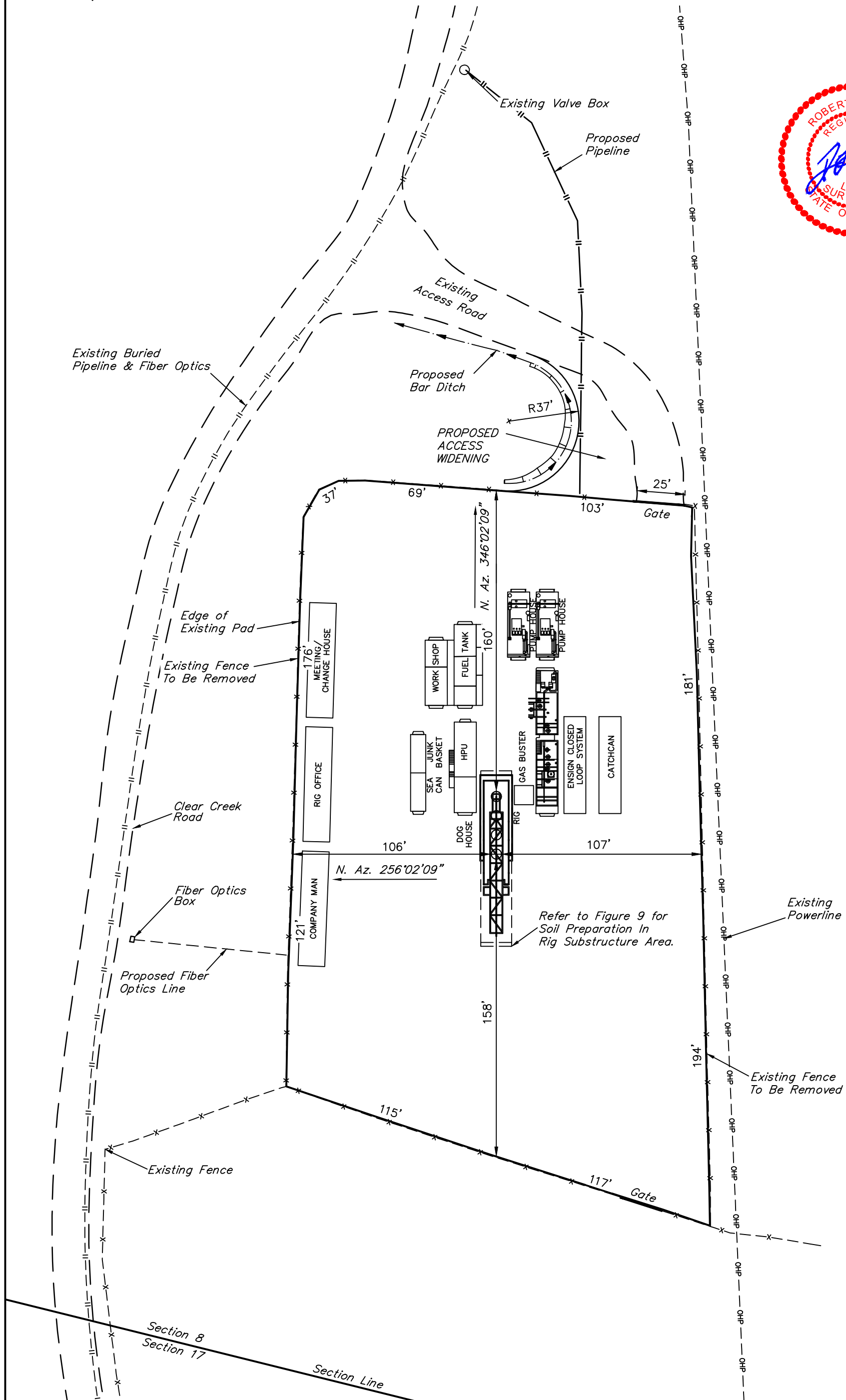
EXCESS MATERIAL	=	80 Cu. Yds.
Topsoil	=	40 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	40 Cu. Yds.

\* NOTE:  
FILL QUANTITY INCLUDES  
10% FOR COMPACTION

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



SCALE: 1" = 50'  
DATE: 02-20-13  
DRAWN BY: C.J.C.  
REV.: 04-03-13 M.D.  
REV.: 04-05-13 M.D.  
REV.: 04-26-13 M.D.  
REV.: 04-30-13 M.D.  
REV.: 05-10-13 M.D.  
REV.: 05-17-13 M.D.

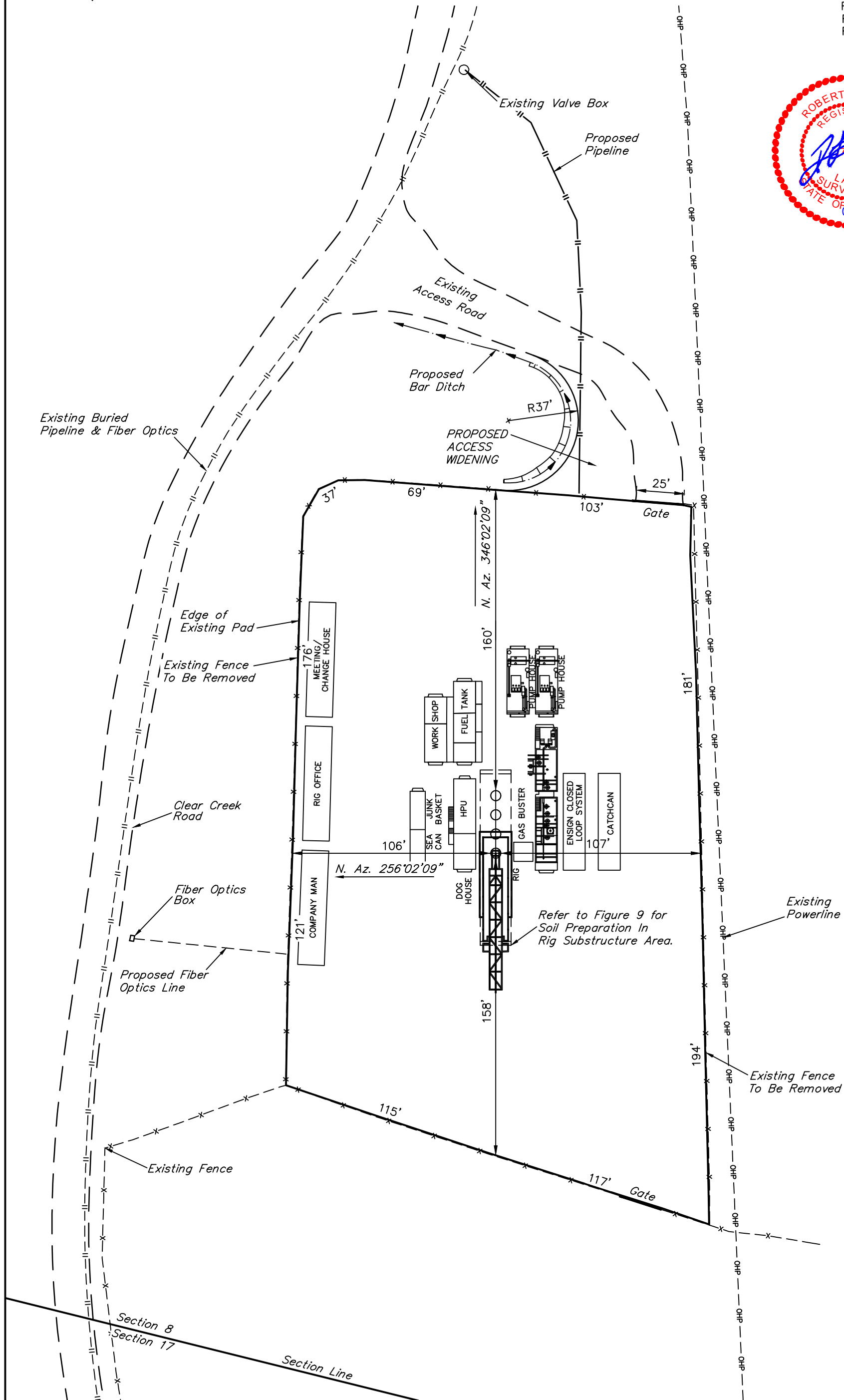




CHEVRON U.S.A., INC.  
TYPICAL RIG LAYOUT FOR  
SKR 598-08BVW (RIG SHIFT TO THE SOUTH)  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #4

SCALE: 1" = 50'  
DATE: 02-20-13  
DRAWN BY: C.J.C.  
REV.: 04-03-13 M.D.  
REV.: 04-05-13 M.D.  
REV.: 04-26-13 M.D.  
REV.: 05-10-13 M.D.  
REV.: 05-17-13 M.D.

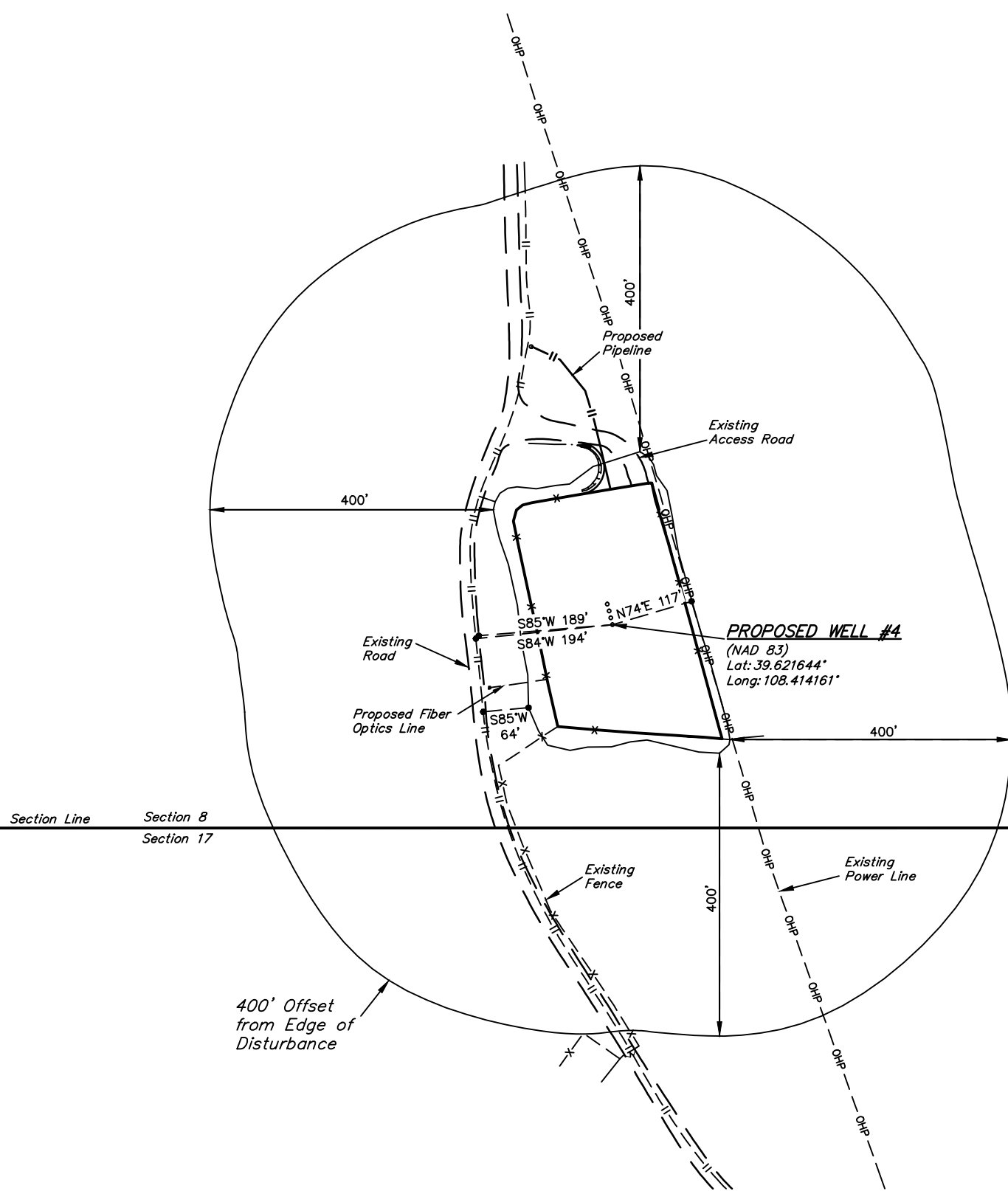




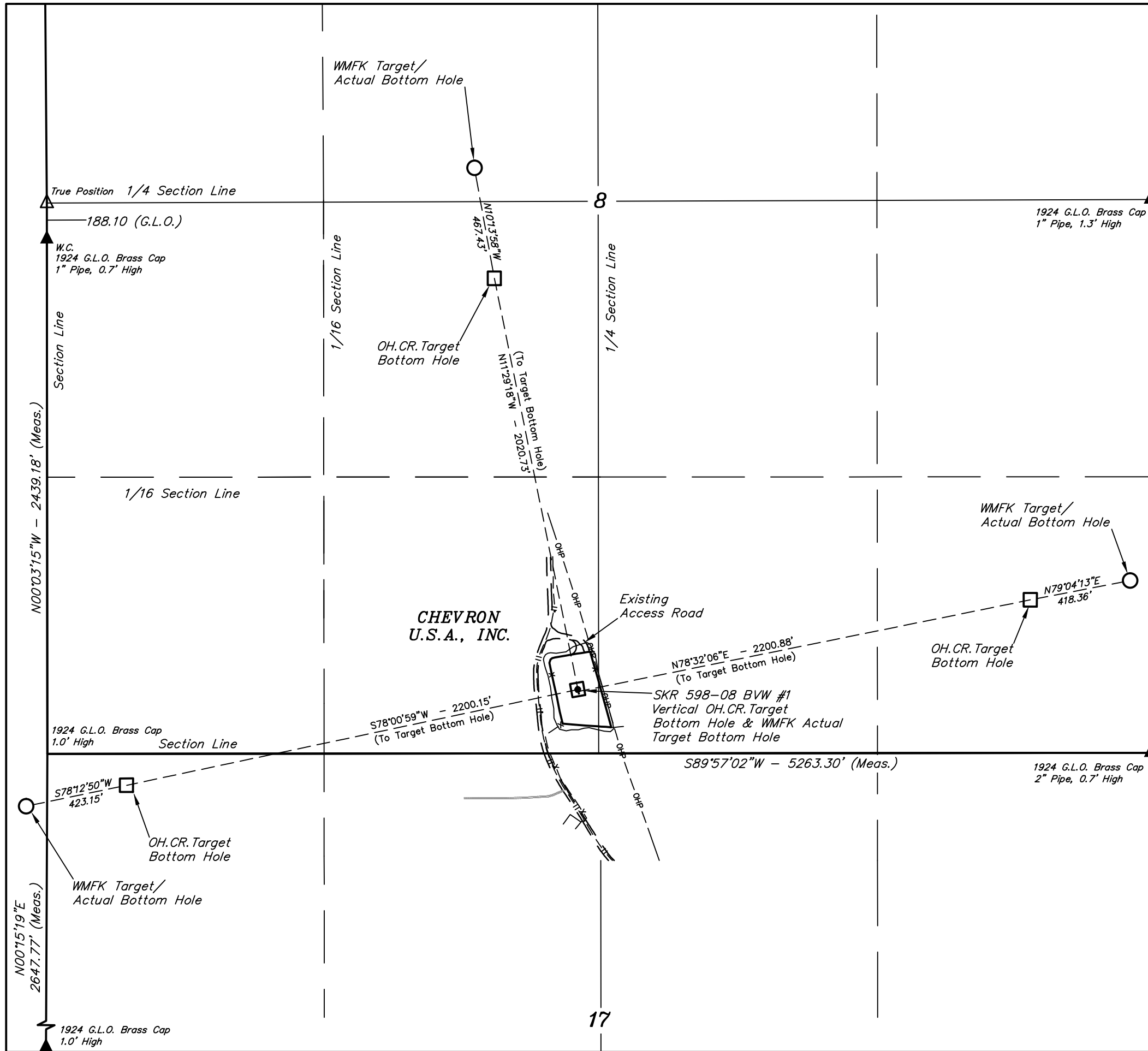
CHEVRON U.S.A., INC.  
LOCATION DRAWING DETAIL FOR  
SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #5A

SCALE: 1" = 200'  
DATE: 05-14-13  
DRAWN BY: M.D.  
REV.: 05-17-13 M.D.

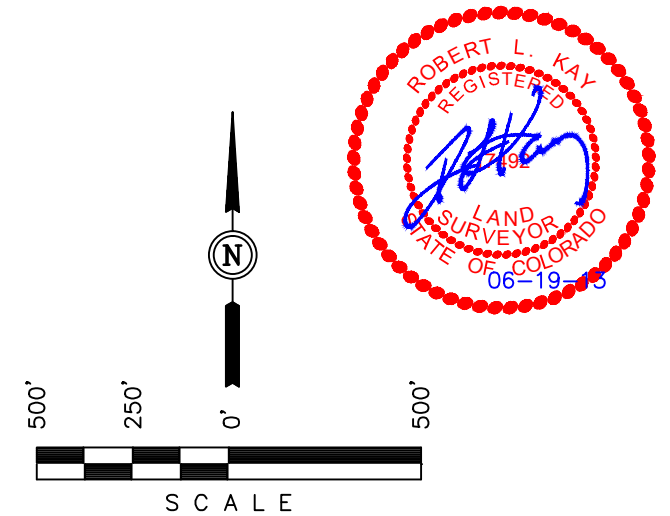






CHEVRON U.S.A., INC.  
BOTTOM HOLE LOCATION DRAWING FOR  
SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #5B  
DATE: 05-14-13  
DRAWN BY: M.D.  
REV.: 05-17-13 M.D.  
REV.: 06-18-13 C.I.



LEGEND:

- WMFK Target/Actual Bottom Hole
- OH.CR. Target Bottom Hole

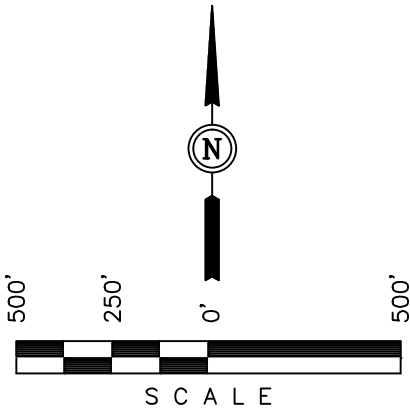
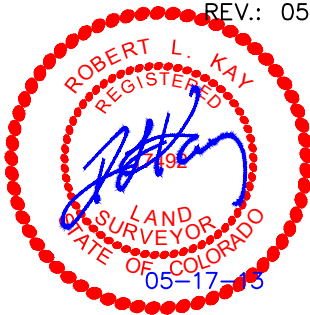
CHEVRON U.S.A., INC.

LOCATION DRAWING FOR

SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #5

DATE: 05-14-13  
DRAWN BY: M.D.  
REV.: 05-17-13 M.D.



N89°59'E - 5280.00' (G.L.O.)

N00°03'W - 5280.00' (G.L.O.)

Section Line

1/4 Section Line

1/16 Section Line

1/4 Section Line

8

1/16 Section Line

FEATURE TABLE		
EXISTING FEATURE	DIRECTION	LENGTH
PUBLIC ROAD	S85°W	189'
RAILROAD	S54°E	22.6 Mi.
PROPERTY LINE	N64°W	1240'
SURFACE WATER (CREEK)	WEST	333'
EXISTING POWER LINE	N74°E	117'
BUILDING	NONE WITHIN 1 MILE RADIUS	

CHEVRON  
USA INC.

Existing  
Access Road

Section Line

1924 G.L.O. Brass Cap  
1.0' High

S00°03'E - 5280.00' (G.L.O.)

PLANT COMMUNITY
<input type="checkbox"/> DISTURBED GRASSLAND
<input type="checkbox"/> NATIVE GRASSLAND
<input type="checkbox"/> SHRUB LAND
<input type="checkbox"/> PLAINS RIPARIAN
<input type="checkbox"/> MOUNTAIN RIPARIAN
<input type="checkbox"/> FOREST LAND
<input type="checkbox"/> WETLANDS AQUATIC
<input type="checkbox"/> ALPINE
<input type="checkbox"/> OTHER (Describe): _____

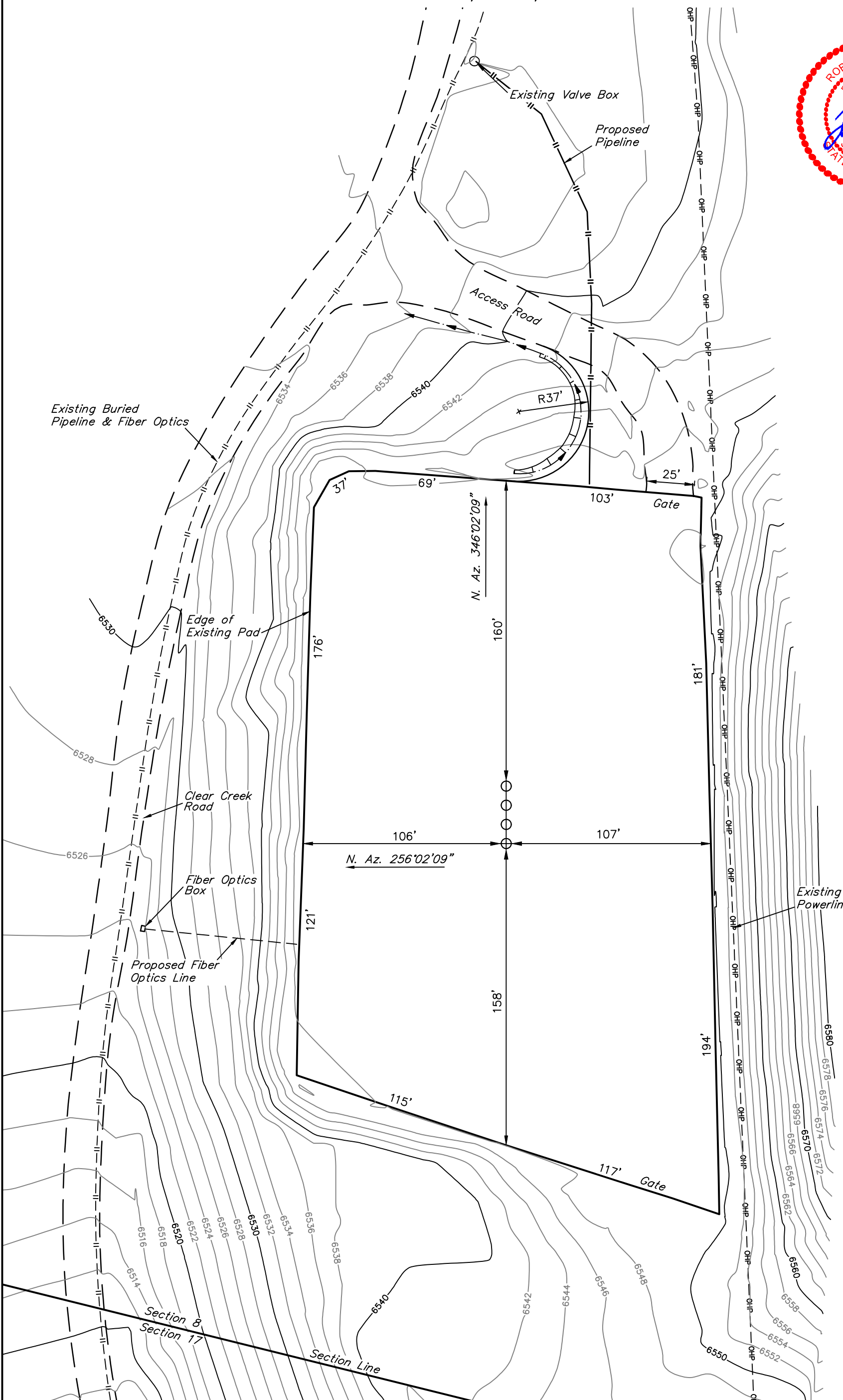
CURRENT LAND USE
CROP LAND: <input type="checkbox"/> IRRIGATED <input type="checkbox"/> DRY LAND <input type="checkbox"/> IMPROVED PASTURE <input type="checkbox"/> HAY MEADOW <input type="checkbox"/> CRP
NON-CROP LAND: <input type="checkbox"/> RANGELAND <input type="checkbox"/> TIMBER <input type="checkbox"/> RECREATIONAL <input type="checkbox"/> OTHER (Describe) _____
SUBDIVIDED: <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> RESIDENTIAL _____

FUTURE LAND USE
CROP LAND: <input type="checkbox"/> IRRIGATED <input type="checkbox"/> DRY LAND <input type="checkbox"/> IMPROVED PASTURE <input type="checkbox"/> HAY MEADOW <input type="checkbox"/> CRP
NON-CROP LAND: <input type="checkbox"/> RANGELAND <input type="checkbox"/> TIMBER <input type="checkbox"/> RECREATIONAL <input type="checkbox"/> OTHER (Describe) _____
SUBDIVIDED: <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> RESIDENTIAL _____



CHEVRON U.S.A., INC.  
INTERIM RECLAMATION DIAGRAM FOR  
SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #6  
SCALE: 1" = 50'  
DATE: 05-14-13  
DRAWN BY: M.D.  
REV.: 05-17-13 M.D.



RECLAIMED AREA

APPROXIMATE ACREAGE  
UN-RECLAIMED = ± 1.683 ACRES

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

CHEVRON U.S.A., INC.  
PRODUCTION FACILITIES LAYOUT FOR

SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #7

SCALE: 1" = 50'  
DATE: 04-26-13  
DRAWN BY: M.D.  
REVISED: 04-30-13  
REVISED: 05-14-13  
REVISED: 05-17-13 M.D.



Existing Buried  
Pipeline & Fiber Optics

Existing Valve Box

Proposed  
Pipeline

Existing  
Access Road

R37'

50'

PROPOSED  
ACCESS  
WIDENING

Gate

10'X10'  
Comm Bld.

Buried  
ELE/Comms

N. Az. 346°02'09"

Edge of Existing Pad

Existing Fence  
To Be Removed

Buried  
ELE/Comms

#2  
#1  
#3  
#4

10'  
(Typ.)

Proposed Well #4  
NAD 83  
Lat: 39°37'17.92"N  
Long: 108°24'50.98"W

Existing  
Powerline

Edge of Existing Pad

Existing Fence  
To Be Removed

Clear Creek  
Road

Fiber Optics  
Box

Proposed Fiber  
Optics Line

Existing Fence

Existing Buried  
Pipeline & Fiber Optics

Section 8  
Section 17

Section Line

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

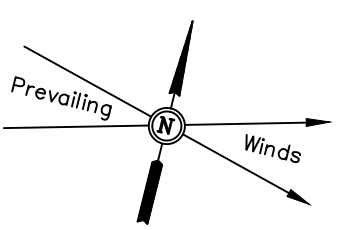
CHEVRON U.S.A., INC.

FINAL RECLAMATION FOR

SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4

FIGURE #8

SCALE: 1" = 50'  
DATE: 05-14-13  
DRAWN BY: M.D.  
REV.: 05-17-13 M.D.



Existing Buried Pipeline & Fiber Optics

Existing Valve Box

Existing Power Line

Existing Access Road

Gate

Clear Creek Road

Fiber Optics Box

Existing Buried Pipeline & Fiber Optics

- #2 ○
- #1 ○
- #3 ○
- #4 ○

Section 8  
Section 17

Section Line

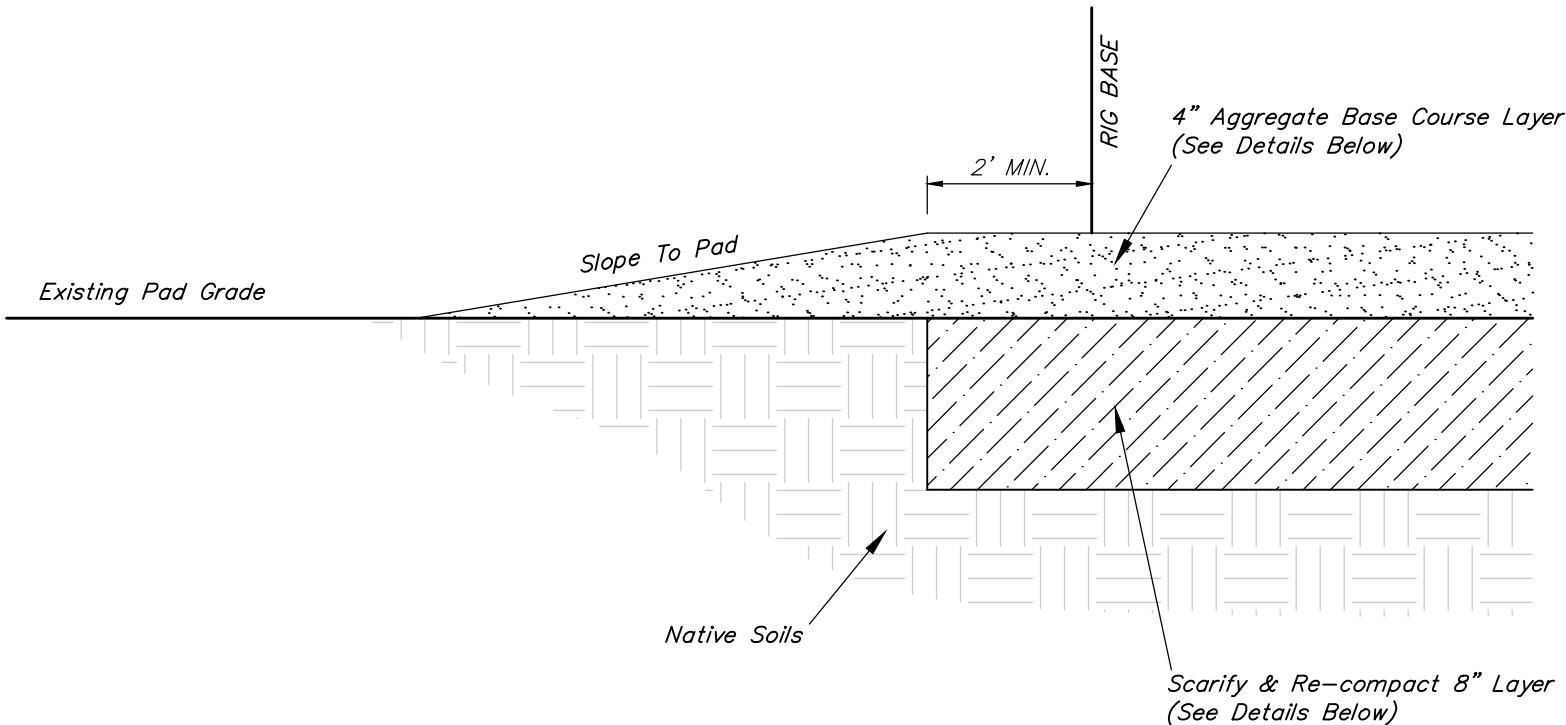
Gate

FINISH GRADE ELEV. AT PAD CENTER = 6549.6'

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



SOILS REPORT DETAILS FOR SITE PREPARATION



NOTES FOR SITE SPECIFIC PREPARATION OF THE DRILLING RIG BEARING AREA:

SOILS REPORT BY: HP GEOTECH (HEPWORTH-PAWLAK GEOTECHNICAL)  
5020 COUNTY ROAD 154  
GLENWOOD SPRINGS, CO 81601  
STEVEN L. PAWLAK, PE

SOILS REPORT REFERENCE: GEOTECHNICAL ENGINEERING STUDY FOR FOUNDATION SUPPORT – PROPOSED CHEVRON U.S.A.  
LAYDOWN YARD EXPANSION  
(JOB NO. 113 043 A)

SOILS REPORT DATED: APRIL 15, 2013

RIG BEARING SOILS PREPARATION DETAILS

RIG BEARING AREA IS ASSUMED TO BE 15'-10" x 12' (190 SQFT). IF THE ACTUAL RIG BEARING AREA IS LESS, PLEASE CONTACT ENGINEER FOR ADDITIONAL BEARING SOIL PREPARATION.

NATIVE SOILS (TO 10' DEPTH): NATIVE SOILS CONSIST OF LOOSE TO MEDIUM DENSE, SILTY TO CLAYEY SAND WITH GRAVEL FILL SOILS.

SCARIFY & RE-COMPACT: NATIVE SOILS SHALL BE SCARIFIED, MOISTURE CONDITIONED TO NEAR OPTIMUM, AND COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR (ASTM-D698)

AGGREGATE BASE COURSE: 4" LAYER OF CDOT CLASS 6 AGGREGATE BASE COURSE. COMPACT TO 95% OF STANDARD PROCTOR DENSITY AND MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM.

GENERAL SITE PREPARATION NOTES:

DRILL RIG BEARING: ALLOWABLE SOIL BEARING PRESSURE = 2,400 PSF (12 FT MINIMUM WIDTH)

GENERAL FOOTINGS: ALLOWABLE SOIL BEARING PRESSURE = 1,000 PSF (2 FT MINIMUM WIDTH)  
ALLOWABLE SOIL BEARING PRESSURE – 1,500 PSF (4 FT MINIMUM WIDTH)

FROST DEPTH: 42 INCHES

EMBANKMENT FILLS:  
1. COMPACT FILL IN 8" MAX. LAYERS TO AT LEAST 95% OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D698) AND MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT.  
2. PERMANENT CUT AND FILL SLOPES SHALL BE GRADED AT 2H:1V  
3. BENCH FILL SLOPES IN EXCESS OF 20% GRADE  
4. REMOVE TOPSOIL IN AREAS OF FOUNDATION SUPPORT OR PRIOR TO FILL PLACEMENT



CHEVRON U.S.A., INC.  
SKR 598-08BVW  
SECTION 8, T5S, R98W, 6<sup>th</sup> P.M.

PROCEED IN A NORTHWESTERLY DIRECTION FROM DE BEQUE, COLORADO ALONG COUNTY ROAD 204 APPROXIMATELY 12.5 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 211 TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN NORTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 4.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; CONTINUE IN A NORTHEASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 8.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE EXISTING LOCATION.

TOTAL DISTANCE FROM DE BEQUE, COLORADO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.7 MILES.



R 99 W R 98 W

EXISTING LOCATION:  
SKR 598-08BVW

SEE TOPO "B"

DE BEQUE 24.6 MI. +/-  
COUNTY ROAD 204 12.1 MI. +/-

T5S  
T6S

LEGEND:

● PROPOSED LOCATION



CHEVRON U.S.A., INC.

SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4



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

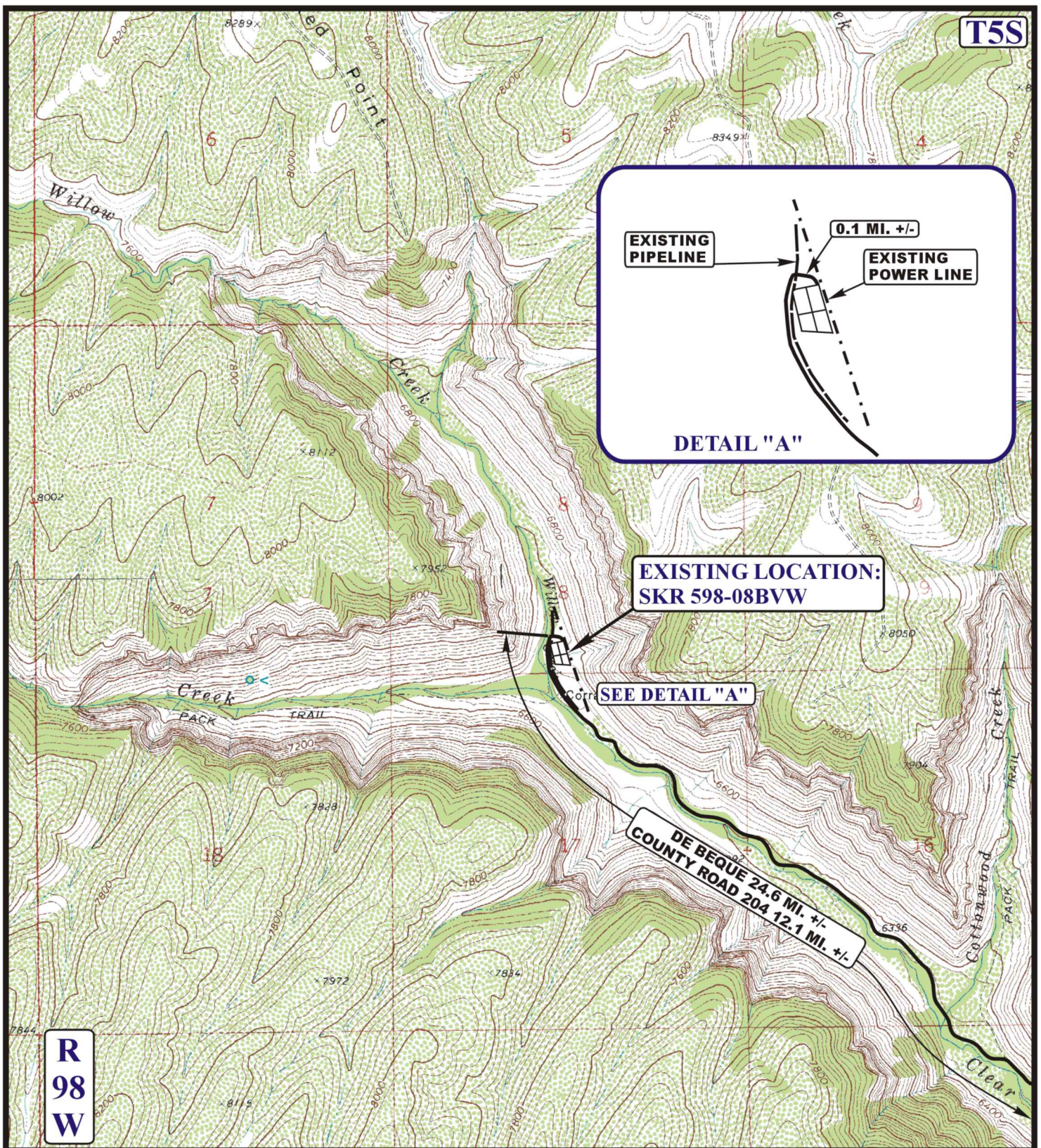
ACCESS ROAD  
MAP

05 15 13  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.L. REVISED: 05-17-13







**LEGEND:**

- EXISTING ROAD
- EXISTING PIPELINE
- EXISTING POWER LINE



**CHEVRON U.S.A., INC.**

**SKR 598-08BVW**  
**SECTION 8, T5S, R98W, 6th P.M.**  
**SE 1/4 SW 1/4**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
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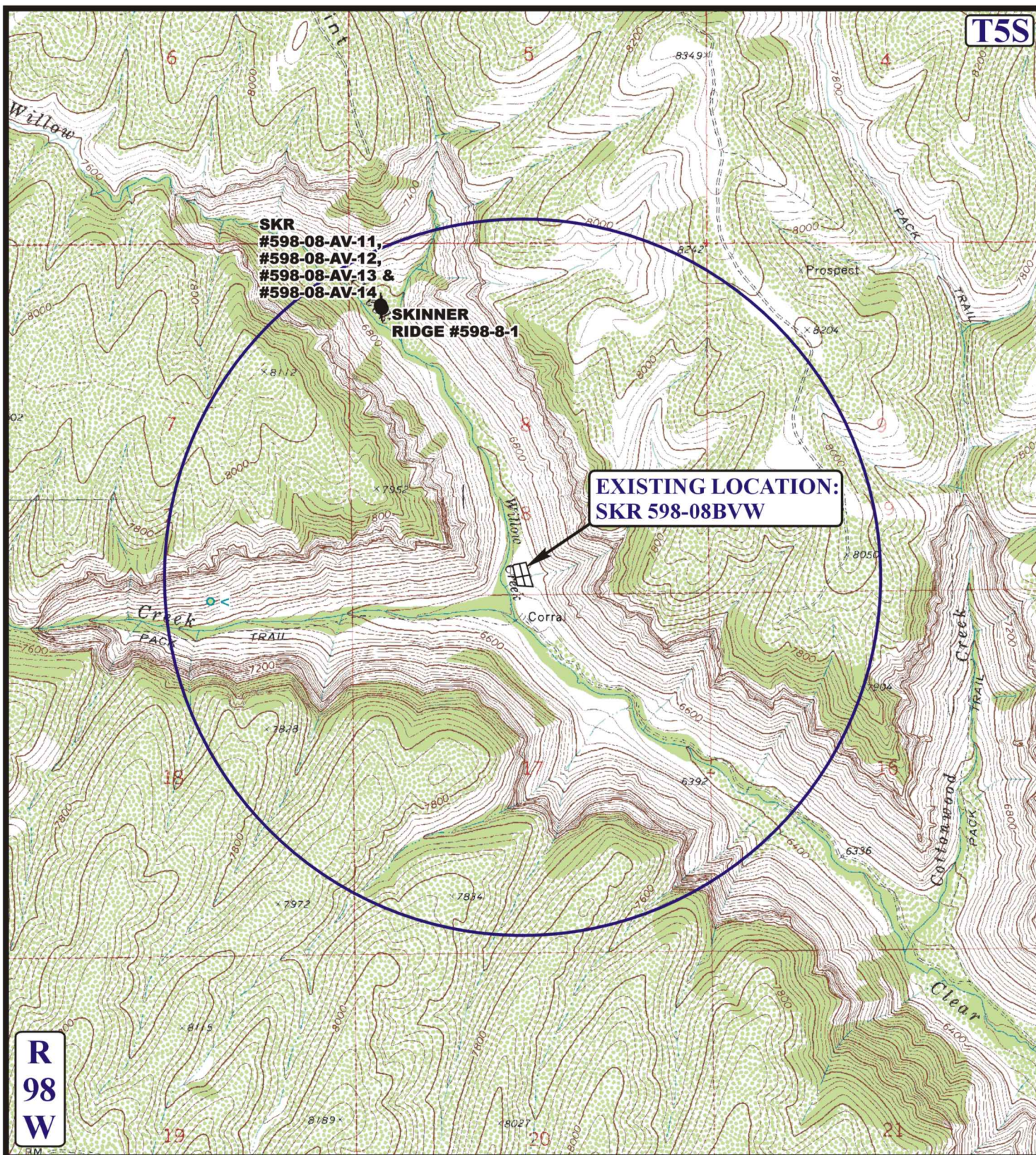
**ACCESS ROAD**  
**MAP**

<b>05</b>	<b>15</b>	<b>13</b>
MONTH	DAY	YEAR

SCALE: 1" = 2000'    DRAWN BY: C.L.    REVISED: 06-18-13

**B**  
**TOPO**





# LEGEND:

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



CHEVRON U.S.A., INC.

SKR 598-08BVW  
SECTION 8, T5S, R98W, 6th P.M.  
SE 1/4 SW 1/4



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TOPOGRAPHIC  
MAP

05	15	13
MONTH	DAY	YEAR

SCALE: 1" = 2000'	DRAWN BY: C.L.	REVISED: 05-17-13
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