



STATE OF COLORADO
STATE BOARD OF LAND COMMISSIONERS

Amendment to Surface Use Agreement No. OM-110087

THIS AMENDMENT ("Amendment") to Surface Use Agreement No. 110087 dated December 7th, 2015, collectively referred to as the ("Agreement") is made this 8th day of December, 2018, between the State of Colorado, acting by and through the STATE BOARD OF LAND COMMISSIONERS herein referred to as the "State Land Board", whose address is 1127 Sherman Street, Suite 300, Denver CO 80203 and Bonanza Creek Energy Operating Company, LLC, hereinafter referred to as the "Operator", whose mailing address is 410 17th Street, Suite 1400, Denver, CO 80202:

WITNESSETH

WHEREAS, the State Land Board and Operator entered into the Agreement on December 7th, 2015;

WHEREAS, the Operator has applied to the State Land Board pursuant to Paragraph 16 of the Agreement to amend the existing Agreement. It is the Operator's desire with this Amendment to change the increase the pad size and number of wellbores from the previously approved in the Agreement.

NOW THEREFORE, the State Land Board and the Operator, for good and valuable consideration, the receipt of which is hereby acknowledged, stipulate and agree as follows:

- The Exhibits attached labeled Amendment - Exhibit A, Amendment - Exhibit B, and Amendment - Exhibit C are herein incorporated to the Agreement and are intended to replace all prior Exhibits.
- The State Land Board approves the increase in pad acreage as described in the Amendment - Exhibit A.
- The approved increase in pad acreage as shown in Amendment - Exhibit A, has altered the payment structure and Amendment - Exhibit B reflects the additional consideration owed by the Operator.
- The State Land Board and Operator acknowledge that the Operator has paid [REDACTED] for the one-time payment due for well pad disturbances as described in the Amendment - Exhibit B.
- Operator agrees to pay [REDACTED] for the initial payment due for well pad disturbance, as consideration for the increased pad acreage as shown on the Amendment - Exhibit B.
- The State Land Board and Operator acknowledge that the Operator has paid [REDACTED] for well payments as described in the Amendment - Exhibit B.
- Assuming full development operator agrees to pay [REDACTED] for well payments as described in the Amendment - Exhibit B.
- The Operator agrees to pay an adjusted [REDACTED] rental of [REDACTED] as consideration for the decreased percentage of produced state minerals as shown on the Amendment - Exhibit B. This payment is due on or before the next

anniversary date of December 8th, 2019, and on or before every anniversary date so long as this Agreement remains in effect.

AND FURTHER, this Amendment to the Agreement, including all recitals contained herein, shall extend to and be binding upon both the State Land Board and the Operator, and their respective heirs, executors, administrators, successors, agents and assigns. The State Land Board and the Operator do hereby ratify, adopt, and confirm all of the terms and provisions of the Agreement, as amended herein, and the State Land Board does hereby grant, lease, demise and let, to Operator, the lands covered by said Agreement as amended herein, upon and subject to all of the terms and provisions set out in the Agreement, as amended hereby. Except as stated in this Amendment, the Agreement shall continue in full force and effect as to all of its other terms and provisions.

IN WITNESS WHEREOF, the parties hereto have executed the foregoing, the same to be effective as of the day and year first above written.

Dated this 7 day of December, 2018.

Operator: [Signature]
Signature

Maxwell Faith
Printed Name

By: Attorney In Fact
Position

of Bonanza Creek Energy Operating Company, LLC
Entity

State of Colorado)

) ACKNOWLEDGEMENT

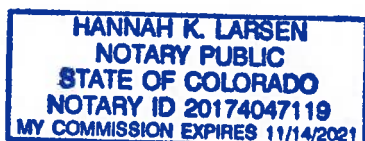
County of Denver

The foregoing instrument was acknowledged before me this 7th day of December by Max Faith of Bonanza Creek Energy Operating Company, LLC, a Colorado Limited Liability Company, on behalf of the Limited Liability Company.

Signature: [Signature] Date: 12.7.18
Notary

Dated this 7th day of December, 2018.

(Seal)



STATE OF COLORADO BY THE
STATE BOARD OF LAND COMMISSIONERS

By: [Signature]
Christel Koranda, Minerals Director

Table of Contents for Amendment - Exhibit A, B, and C

36 Pages

Amendment - Exhibit A

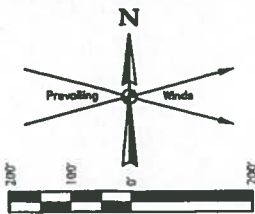
Page 1	Location drawing
Page 2	Cut/Fill diagram for location
Page 3-4	Location pictures
Page 5	Hydrology map
Page 6-8	Access road map
Page 9	Reference area map
Page 10-11	Reference area photos
Page 12-13	Multi well plan
Page 14-18	Plats (all wells)
Page 19-23	Unit configuration maps

Amendment - Exhibit B

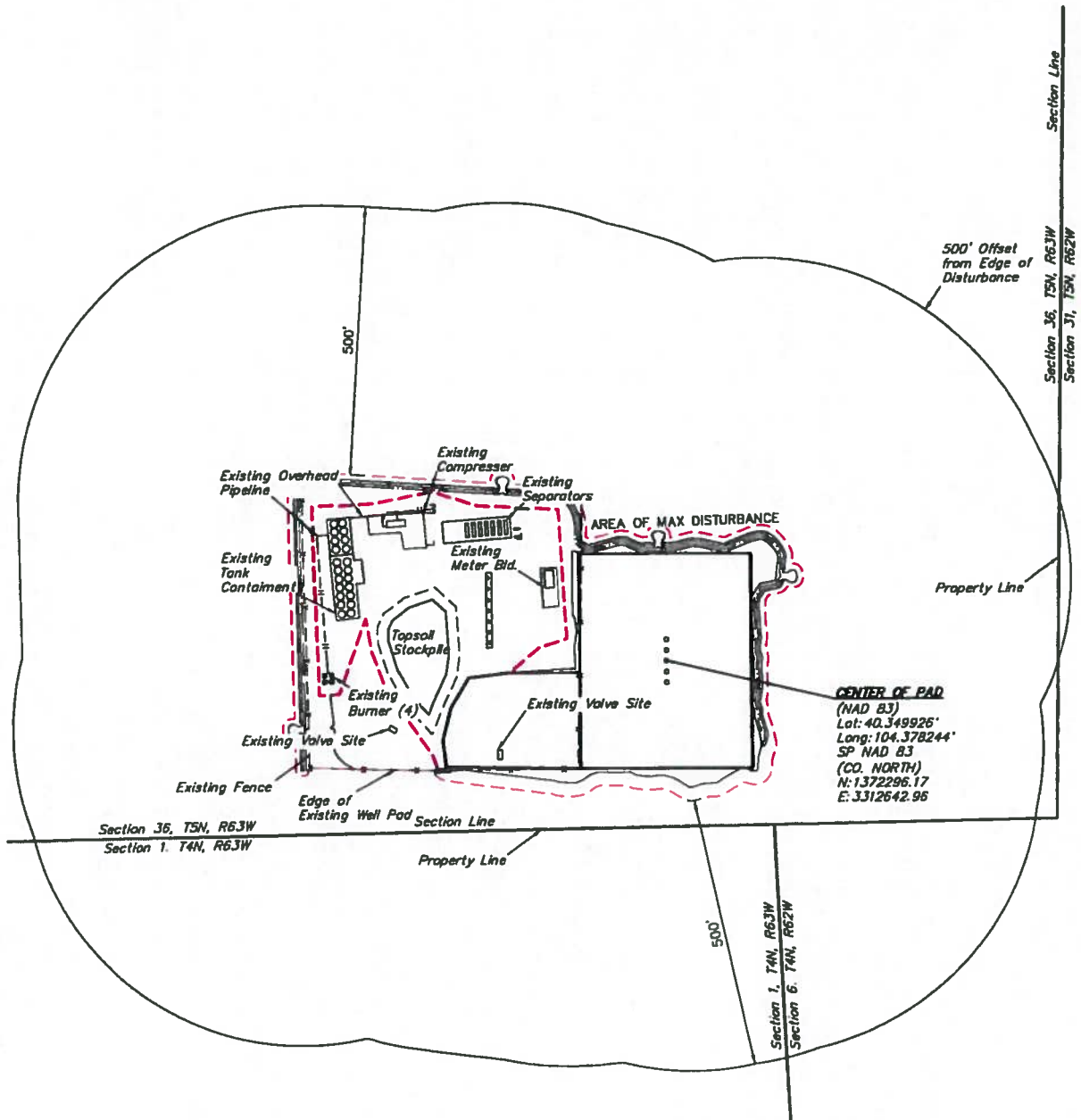
Page 24	Surface use agreement pay table
Page 25-26	Payment calculators

Amendment - Exhibit C

Page 27	Onsite approval letter
Page 28-32	CPW review letter
Page 33	CNHP review letter
Page 34-35	COGCC location exception waivers
Page 36	Weld County waivers



Amendment - Exhibit A



PLANT COMMUNITY		CURRENT LAND USE					
<input type="checkbox"/> DISTURBED GRASSLAND		<input type="checkbox"/> CROPLAND	<input type="checkbox"/> IRRIGATED	<input type="checkbox"/> DRY LAND	<input type="checkbox"/> IMPROVED PASTURE	<input type="checkbox"/> PASTURE	<input type="checkbox"/> CRP
<input type="checkbox"/> NATIVE GRASSLAND		<input type="checkbox"/> NON-CROPLAND	<input type="checkbox"/> RANGELAND	<input type="checkbox"/> TIMBER	<input type="checkbox"/> RECREATIONAL	<input type="checkbox"/> OTHER (Describe)	
<input type="checkbox"/> SHRUBLAND		<input type="checkbox"/> SUBDIVIDED	<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> RESIDENTIAL		
<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)							
FUTURE LAND USE							
<input type="checkbox"/> CROPLAND		<input type="checkbox"/> IRRIGATED	<input type="checkbox"/> DRY LAND	<input type="checkbox"/> IMPROVED PASTURE	<input type="checkbox"/> PASTURE	<input type="checkbox"/> CRP	
<input type="checkbox"/> NON-CROPLAND		<input type="checkbox"/> RANGELAND	<input type="checkbox"/> TIMBER	<input type="checkbox"/> RECREATIONAL	<input type="checkbox"/> OTHER (Describe)		
<input type="checkbox"/> SUBDIVIDED		<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> RESIDENTIAL			

NOTES:
• There are no existing improvements within 500' of the proposed disturbance

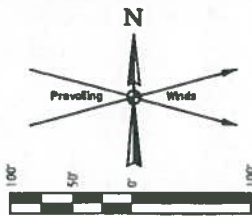


UELS, LLC
Corporate Office • 85 South 200 East
Vernal, UT 84078 • (435) 789-1017

**BONANZA CREEK
OPERATING COMPANY, LLC**
STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

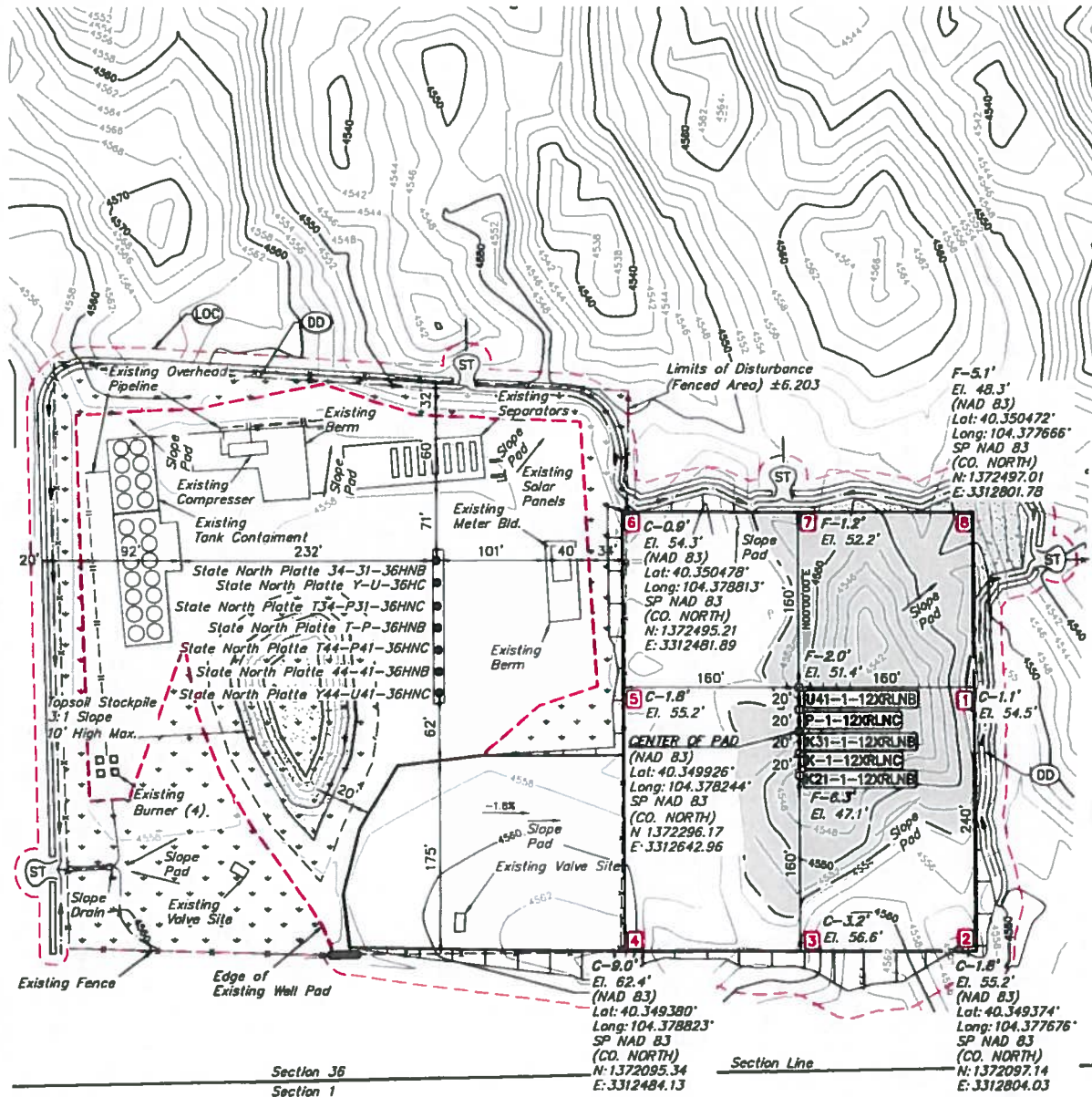
SURVEYED BY	RYAN WILLIAMS, D.E.	07-18-18	SCALE
DRAWN BY	CIVIL	10-10-18	1" = 200'

LOCATION DRAWING



BMP LEGEND

- DD DIVERSION DITCH & BERM
- LC LIMITS OF CONSTRUCTION
- ST SEDIMENT TRAP



LEGEND

Reclaimed Area

**FINISHED GRADE
ELEVATION = 4553.4'**

APPROXIMATE EARTHWORK QUANTITIES	
(6") TOPSOIL STRIPPING	3,550 Cu. Yds.
REMAINING LOCATION	12,570 Cu. Yds.
TOTAL CUT	16,120 Cu. Yds.
FILL	12,570 Cu. Yds.
EXCESS MATERIAL	3,550 Cu. Yds.
TOPSOIL	3,550 Cu. Yds.
EXCESS UNBALANCE	0 Cu. Yds.

NOTE: Earthwork calculations require a fill @ the location stakes for balance. All fill is to be compacted to a minimum of 95% of the maximum dry density obtained by AASHTO method 1-B.

WELL TABULATION

U-1-1-12XRLNB	348' FSL 732' FFL
P-1-12XRLNC	328' FSL 732' FFL
K-1-12XRLNB	308' FSL 731' FFL
K-1-12XRLNC	288' FSL 731' FFL
K-2-1-12XRLNB	268' FSL 731' FFL

APPROXIMATE SURFACE DISTURBANCE AREAS

	DISTANCE	ACRES
EXISTING LIMITS OF DISTURBANCE (FENCED AREA)	NA	±6,203
PROPOSED AREA OF MAX DISTURBANCE	NA	±4,720
TOTAL SURFACE USE AREA		±10,923

NOTES:

- Construct diversion ditches as needed
- Contours shown at 2' intervals
- Fill quantity includes 5% for compaction
- Cut slopes 3:1 (Typ)
- Fill slopes 4:1 (Typ)



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

**BONANZA CREEK
OPERATING COMPANY, LLC**
STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

SURVEYED BY	RYAN WILLIAMS, D.E.	07-18-18	SCALE
DRAWN BY	CIVIL	07-25-18	1" = 100'

INITIAL PLAT



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: NORTHERLY

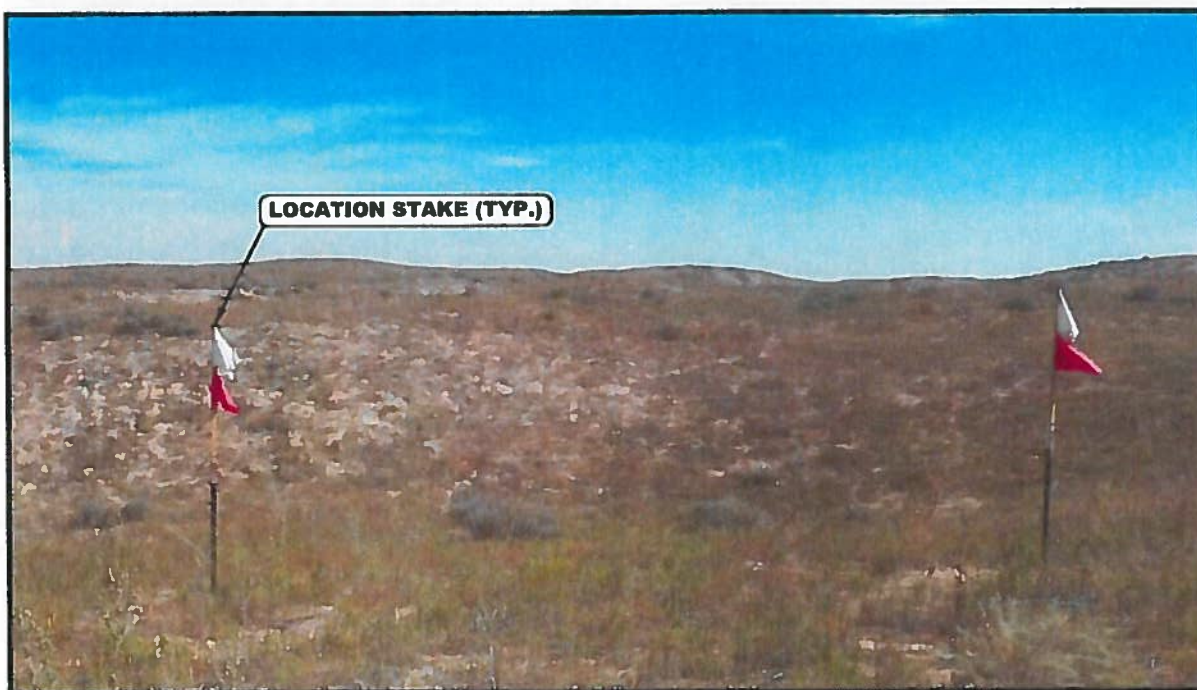


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: EASTERLY

REV: 1 10-18-18 C.IVIE (WELLHEAD REORDER)

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

**STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO**

TAKEN BY	M.M., D.E.	09-27-18	
DRAWN BY	J.L.G.	09-27-18	
LOCATION PHOTOS		PHOTO 1	



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

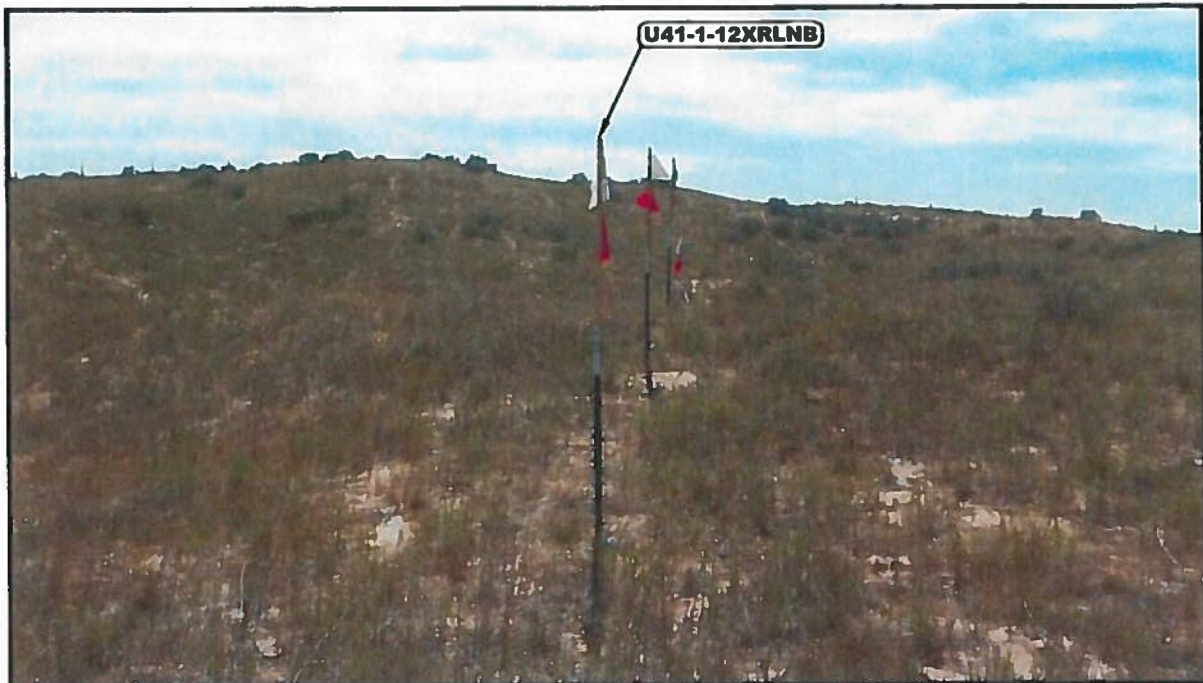


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: WESTERLY

REV: 1 10-18-18 C.IVIE (WELLHEAD REORDER)

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

**STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO**

TAKEN BY	M.M., D.E.	09-27-18	
DRAWN BY	J.L.G.	09-27-18	

LOCATION PHOTOS

PHOTO 2



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

R 63 W
R 62 W

1,000' OFFSET

500' OFFSET

PROPOSED LOCATION:
STATE NORTH PLATTE
T-36 PAD

EDGE OF DISTURBANCE

T5N

T4N

WATER WELL

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S08°W	889'



R 63 W
R 62 W

LEGEND:

- 500' OFFSET BOUNDARY
- 1000' OFFSET BOUNDARY
- EDGE OF DISTURBANCE
- WATER WELLS



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



**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

SURVEYED BY	R.W., D.E.	07-18-18	SCALE
DRAWN BY	J.L.G.	09-27-18	1 : 6,000
HYDROLOGY MAP			TOPO W

PROCEED IN AN EASTERLY DIRECTION FROM KERSEY, COLORADO ALONG U.S. HIGHWAY 34 APPROXIMATELY 9.2 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 69 TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 69 TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM KERSEY, COLORADO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 15.0 MILES.

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

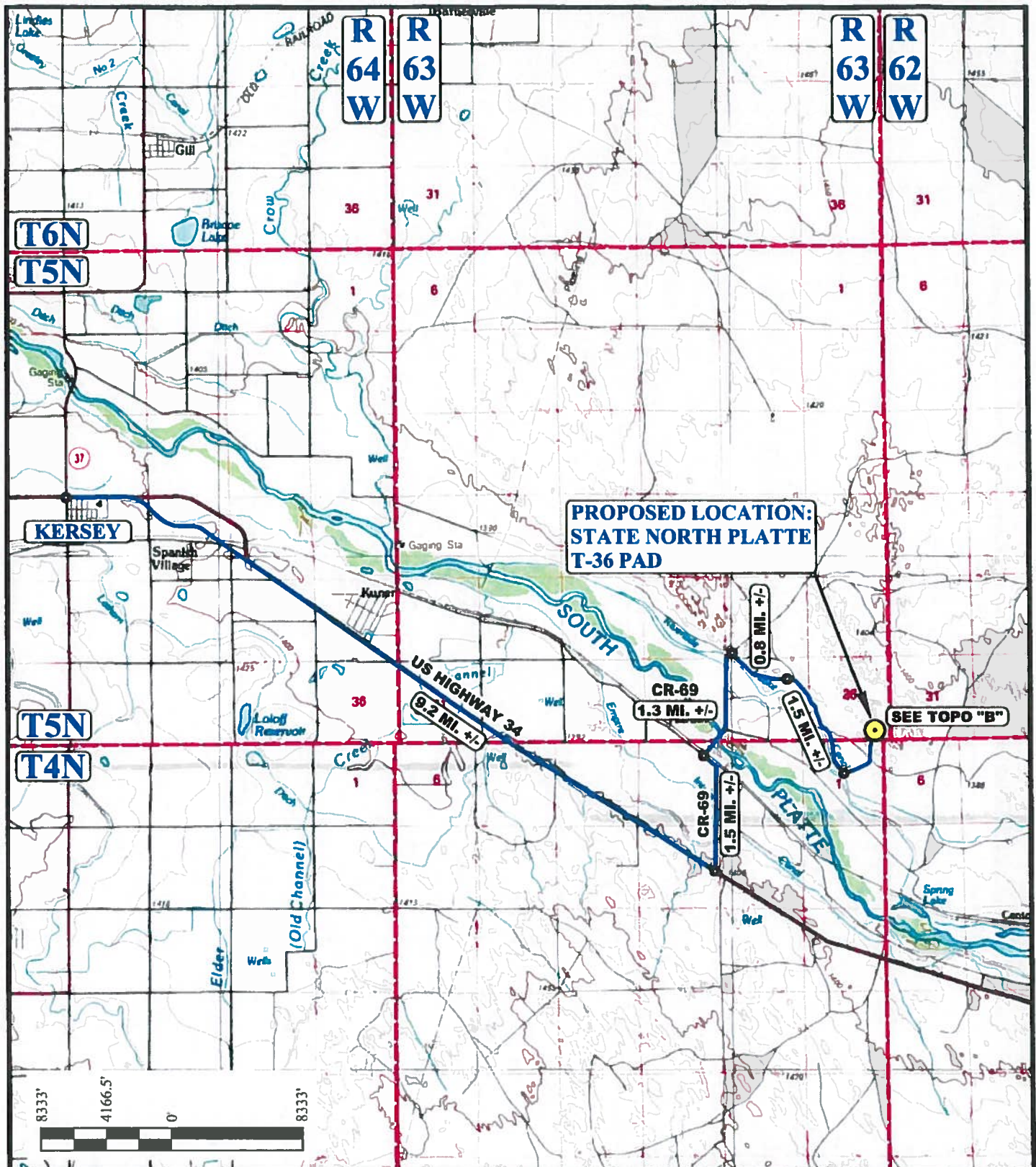
**STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO**

SURVEYED BY	R.W., D.E.	07-18-18	
DRAWN BY	J.L.G.	09-27-18	
ROAD DESCRIPTION			



UELS, LLC

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



LEGEND:

● PROPOSED LOCATION



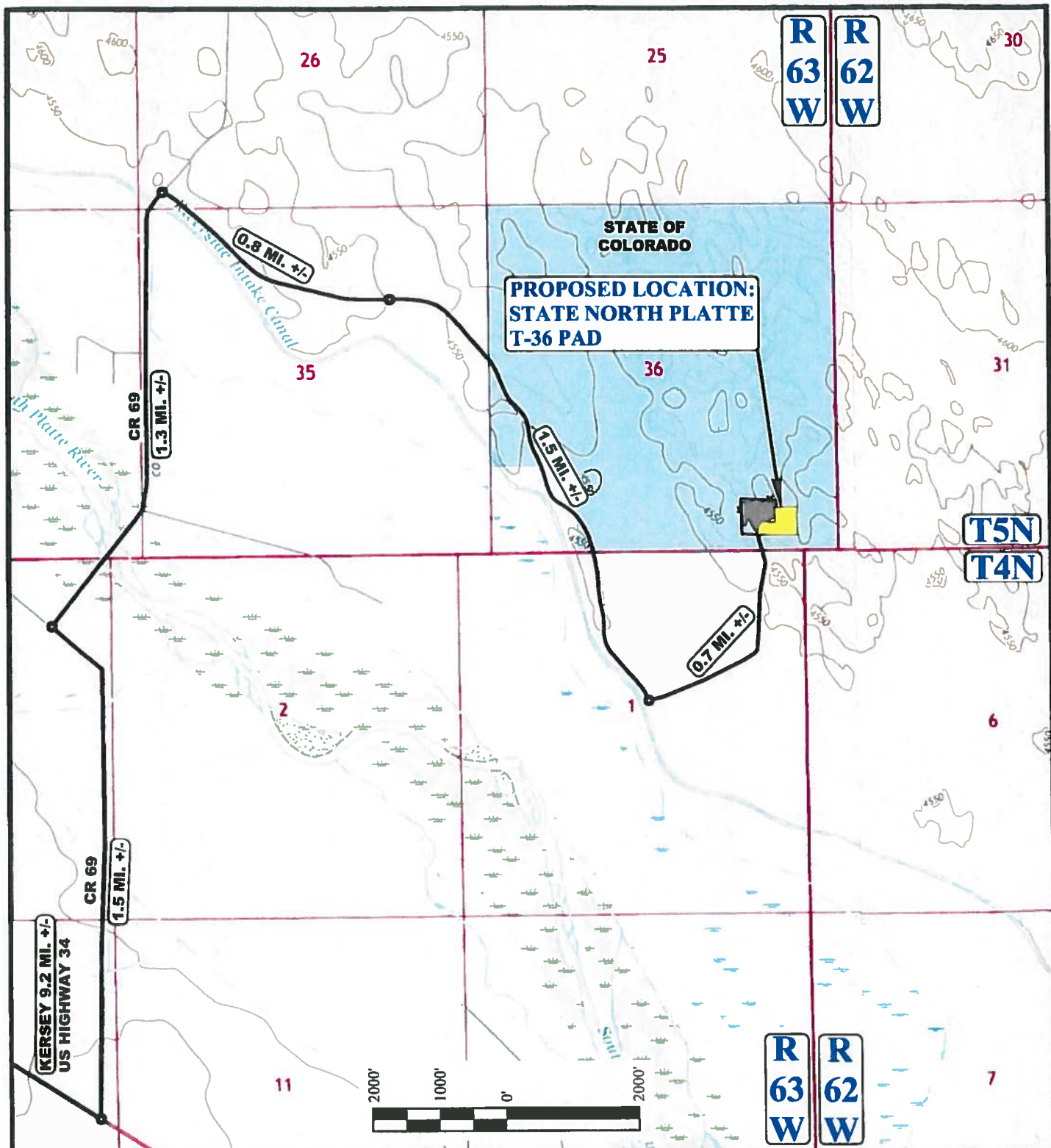
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

SURVEYED BY	R.W. D.E.	07-18-18	SCALE
DRAWN BY	J.L.G.	09-27-18	1 : 100,000
ACCESS ROAD MAP			TOPO A



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

LEGEND:

- EXISTING ROAD
- EXISTING FENCE



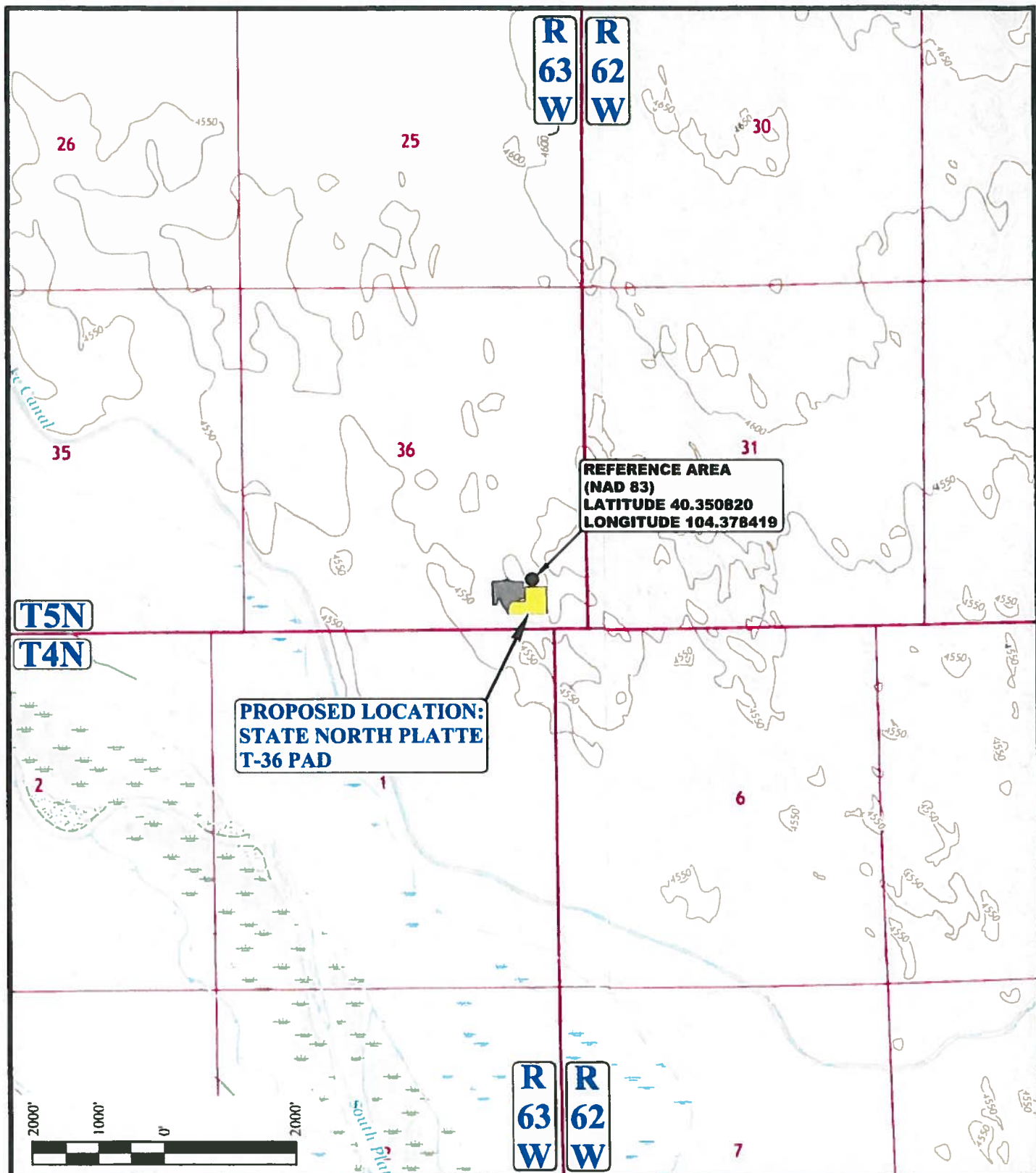
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



BONANZA CREEK ENERGY OPERATING COMPANY, LLC

STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

SURVEYED BY	R.W., D.E.	07-18-18	SCALE
DRAWN BY	J.L.G.	09-27-18	1 : 24,000
ACCESS ROAD MAP			TOPO B



LEGEND:



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



**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

**STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO**

SURVEYED BY	R.W., D.E.	07-18-18	SCALE
DRAWN BY	J.L.G.	09-27-18	1 : 24,000
REFERENCE AREA MAP		REF TOPO	



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: EASTERLY

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

**STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO**

TAKEN BY	M.M., D.E.	09-27-18	
DRAWN BY	J.L.G.	09-27-18	

REFERENCE AREA PHOTOS

REF 1



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

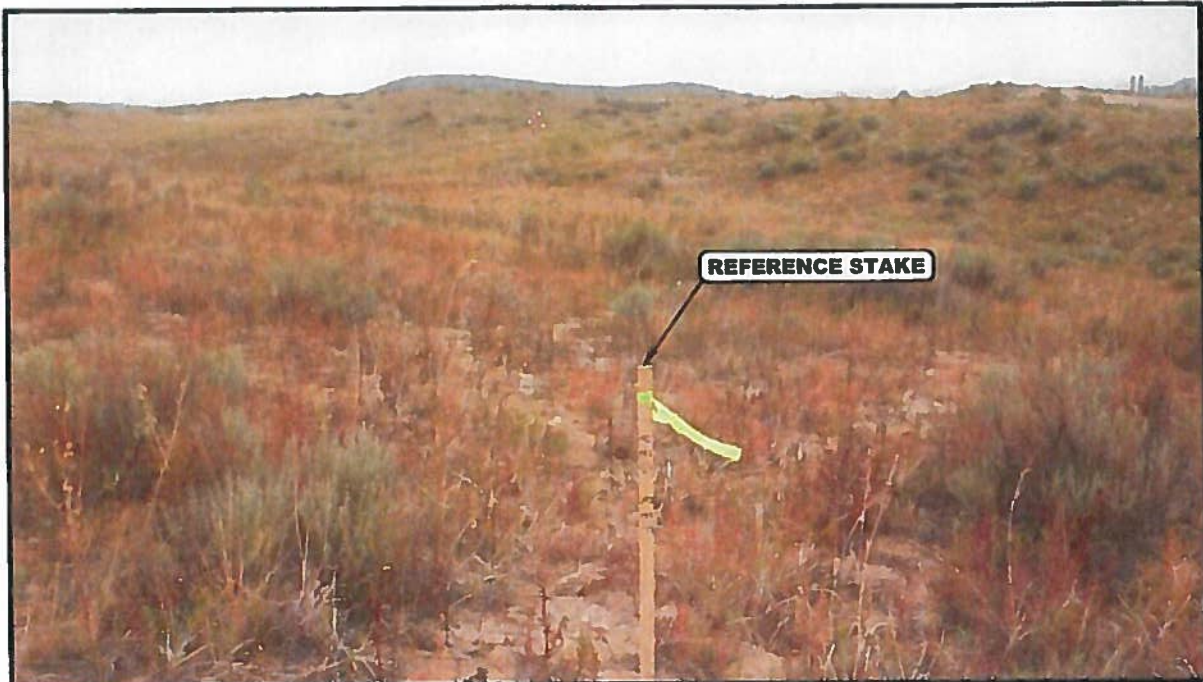


PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: WESTERLY

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

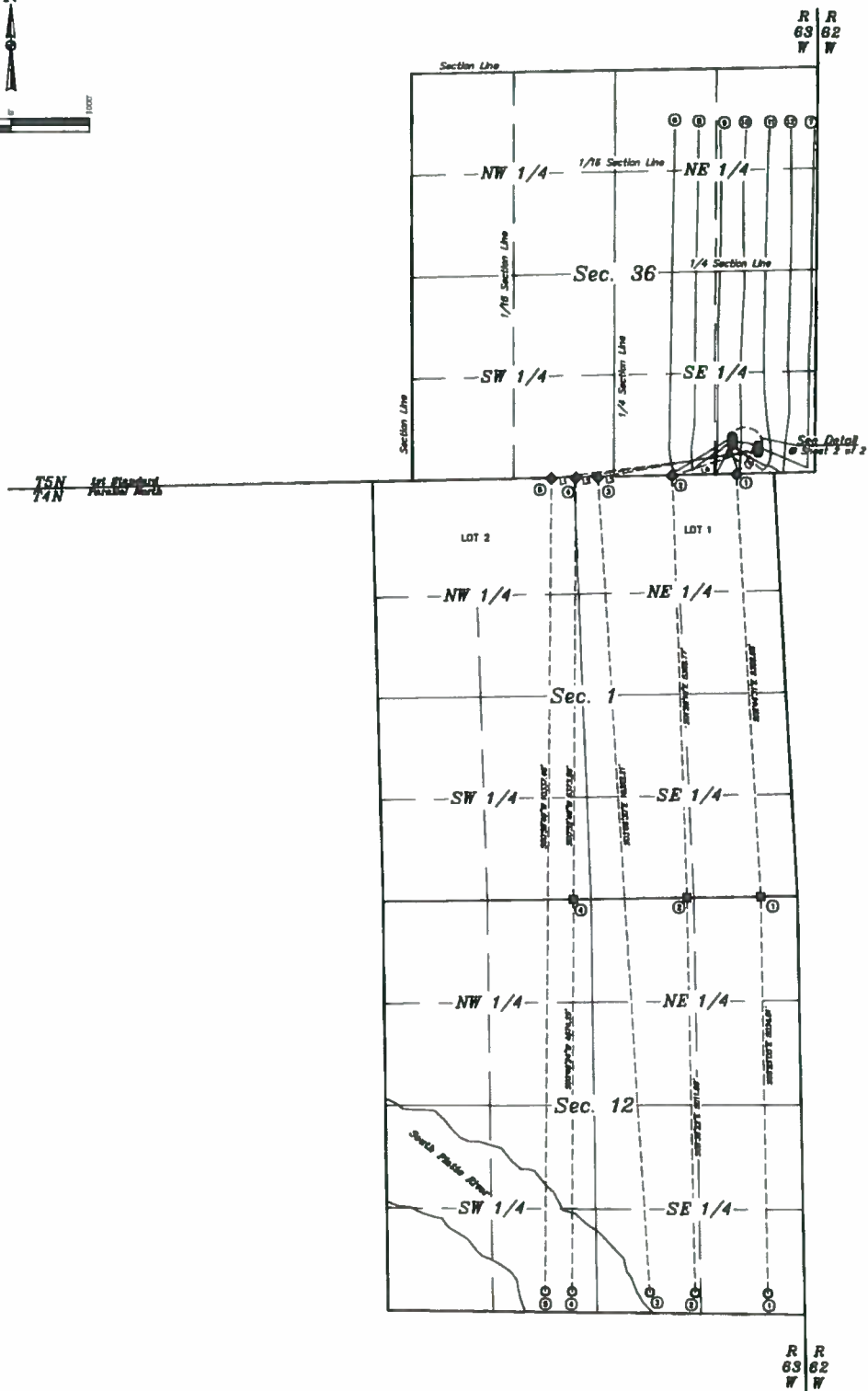
**STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO**

TAKEN BY	M.M., D.E.	09-27-18	
DRAWN BY	J.L.G.	09-27-18	
REFERENCE AREA PHOTOS			REF 2



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

- LEGEND:**
- OF SYMBOL
 - PROPOSED WELLHEAD
 - TARGET 1 LOCATION
 - MID-LATERAL TARGET
 - TARGET BOTTOM HOLE



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S82°00'00"W	3884.47
L2	S21°00'00"W	5271.88
L3	S88°00'00"W	3884.47
L4	S72°00'00"W	1165.87
L5	S27°00'00"W	658.37

Sheet 1 of 2

WELL DATA									
WELL NAME	WELL TYPE	WELL DEPTH	WELL DIRECTION	WELL LOCATION	WELL STATUS	WELL DATE	WELL COMMENTS	WELL DRAWN BY	WELL CHECKED BY
W1	W	1000	S82°00'00"W	3884.47	Active	10/1/10	Initial Survey	J. Smith	M. Jones
W2	W	1000	S21°00'00"W	5271.88	Active	10/1/10	Initial Survey	J. Smith	M. Jones
W3	W	1000	S88°00'00"W	3884.47	Active	10/1/10	Initial Survey	J. Smith	M. Jones
W4	W	1000	S72°00'00"W	1165.87	Active	10/1/10	Initial Survey	J. Smith	M. Jones
W5	W	1000	S27°00'00"W	658.37	Active	10/1/10	Initial Survey	J. Smith	M. Jones

BONANZA CREEK ENERGY
OPERATING COMPANY, LLC

STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T36N, R63W, 6th P.M.
WFLD COUNTY, COLORADO

REVIEWED BY	RYAN WILKINS, D.L.	2010-10-01	SUBMIT
DRAWN BY	J. Smith	2010-09-01	DATE

LEGEND:

● - PROPOSED WELLHEAD



- ⑥ EXISTING STATE NORTH PLATTE 34-31-36HNB
- 20'
- ⑦ EXISTING STATE NORTH PLATTE Y-U-36HC
- 21'
- ⑧ EXISTING STATE NORTH PLATTE T34-P31-36HNC
- 20'
- ⑨ EXISTING STATE NORTH PLATTE T-P-36HNB
- 20'
- ⑩ EXISTING STATE NORTH PLATTE T44-P41-36HNC
- 20'
- ⑪ EXISTING STATE NORTH PLATTE 44-41-36HNB
- 19'
- ⑫ EXISTING STATE NORTH PLATTE Y44-U41-36HNC

- LATHAM U41-1-12XRLNB ①
- 20'
- LATHAM P-1-12XRLNC ②
- 20'
- LATHAM K31-1-12XRLNB ③
- 20'
- LATHAM K-1-12XRLNC ④
- 20'
- LATHAM K21-1-12XRLNB ⑤

REV: 2 10-18-18 C.IVIE (WELLHEAD REORDER)

Sheet 1 of 2

#	WELL NAME	SHL FOOTAGE	SHL LAT (NAD 83)	SHL LONG (NAD 83)	SHL PDOP	SHL ELEV.	SHL 1/4 1/4
1	LATHAM U41-1-12XRLNB	348' FSL 732' FEL	N 40.350038°	W 104.378243°	1.9	4551.4'	SESE
2	LATHAM P-1-12XRLNC	328' FSL 732' FEL	N 40.349981°	W 104.378244°	1.9	4552.3'	SESE
3	LATHAM K31-1-12XRLNB	308' FSL 731' FEL	N 40.349928°	W 104.378244°	1.9	4552.9'	SESE
4	LATHAM K-1-12XRLNC	288' FSL 731' FEL	N 40.349871°	W 104.378245°	1.9	4550.2'	SESE
5	LATHAM K21-1-12XRLNB	268' FSL 731' FEL	N 40.349816°	W 104.378245°	1.8	4547.1'	SESE
6	EXISTING STATE NORTH PLATTE 34-31-36HNB	470' FSL 1085' FEL	N 40.350361°	W 104.379428°	1.4	4557.5'	SESE
7	EXISTING STATE NORTH PLATTE Y-U-36HC	450' FSL 1084' FEL	N 40.350305°	W 104.379427°	1.4	4557.7'	SESE
8	EXISTING STATE NORTH PLATTE T34-P31-36HNC	428' FSL 1084' FEL	N 40.350247°	W 104.379427°	1.4	4558.6'	SESE
9	EXISTING STATE NORTH PLATTE T-P-36HNB	409' FSL 1083' FEL	N 40.350192°	W 104.379425°	1.4	4558.9'	SESE
10	EXISTING STATE NORTH PLATTE T44-P41-36HNC	389' FSL 1082' FEL	N 40.350137°	W 104.379425°	1.4	4559.0'	SESE
11	EXISTING STATE NORTH PLATTE 44-41-36HNB	369' FSL 1082' FEL	N 40.350083°	W 104.379424°	1.4	4558.2'	SESE
12	EXISTING STATE NORTH PLATTE Y44-U41-36HNC	350' FSL 1081' FEL	N 40.350030°	W 104.379424°	1.4	4558.3'	SESE

BONANZA CREEK ENERGY OPERATING COMPANY, LLC

STATE NORTH PLATTE T-36 PAD
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

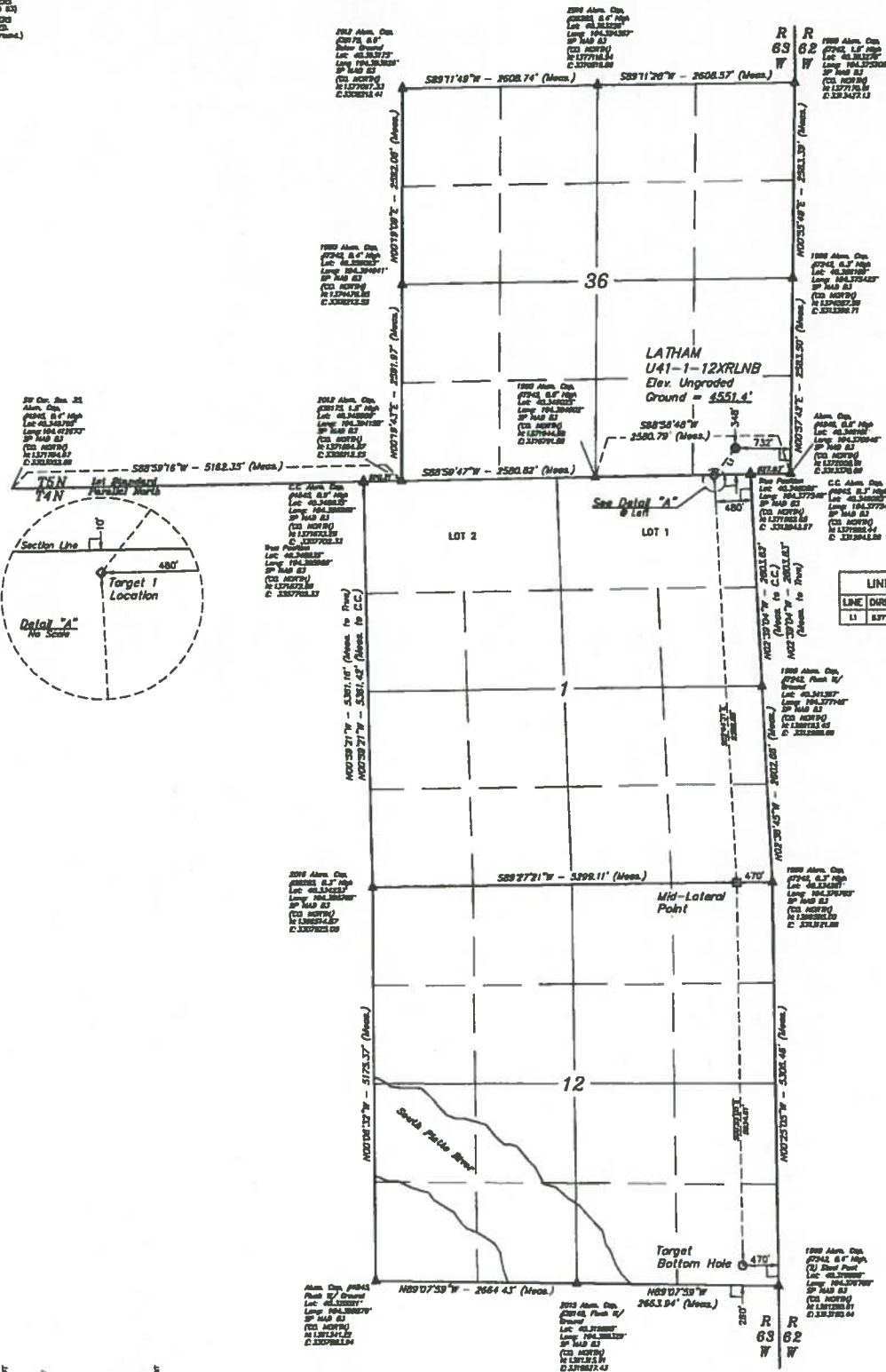


UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	RYAN WILLIAMS, D.E.	07-18-18	SCALE
DRAWN BY	C.IVIE	09-27-18	1" = 50'

MULTI-WELL PLAN

LEGEND:
 - SP SYMBOL
 - PROPOSED WELLHEAD
 - TARGET 1 LOCATION
 - MID-LATERAL TARGET
 - TARGET BOTTOM HOLE
 - SECTION CORNER
 - LOCATED (DAB E3)
 - SECTION CORNER
 - RE-ESTABLISHED
 - (DAB E3)



PD01P-1.9

NAD83 (SURFACE) LOCATION	NAD83 (TARGET 1) LOCATION
LATITUDE = 40°21'00.11" (40 150016")	LATITUDE = 40°20'46.56" (40 149034")
LONGITUDE = 104°22'41.68" (104 376243")	LONGITUDE = 104°22'45.34" (104 379260")
STATE PLANE NAD83 (CO. NORTH)	STATE PLANE NAD83 (CO. NORTH)
N 1372336.16' E 3312642.73'	N 1371971.42' E 3312163.88'
NAD83 (MID-LATERAL TARGET)	NAD83 (TARGET BOTTOM HOLE)
LATITUDE = 40°20'03.33" (40 134357")	LATITUDE = 40°19'13.59" (40 320441")
LONGITUDE = 104°22'47.49" (104 376471")	LONGITUDE = 104°22'42.48" (104 376466")
STATE PLANE NAD83 (CO. NORTH)	STATE PLANE NAD83 (CO. NORTH)
N 1366587.89' E 3312652.08'	N 1361555.04' E 3312717.17'

BASIS OF REVISIONS
 TRANSVERSE MERIDIAN PROJECTION & EARTH CURVATURE MERIDIAN CURVATURE
 REVISIONS: 1. 11/11/2010
 2. 11/11/2010
 3. 11/11/2010



UTLS, LLC
 Corporate Office: 85 South 200 East
 Provo, UT 84601 • (801) 794-1017



REVISED BY: RWM (SURFACE LOCATION) DATE: 11/11/2010

BONANZA CREEK ENERGY OPERATING COMPANY, LLC

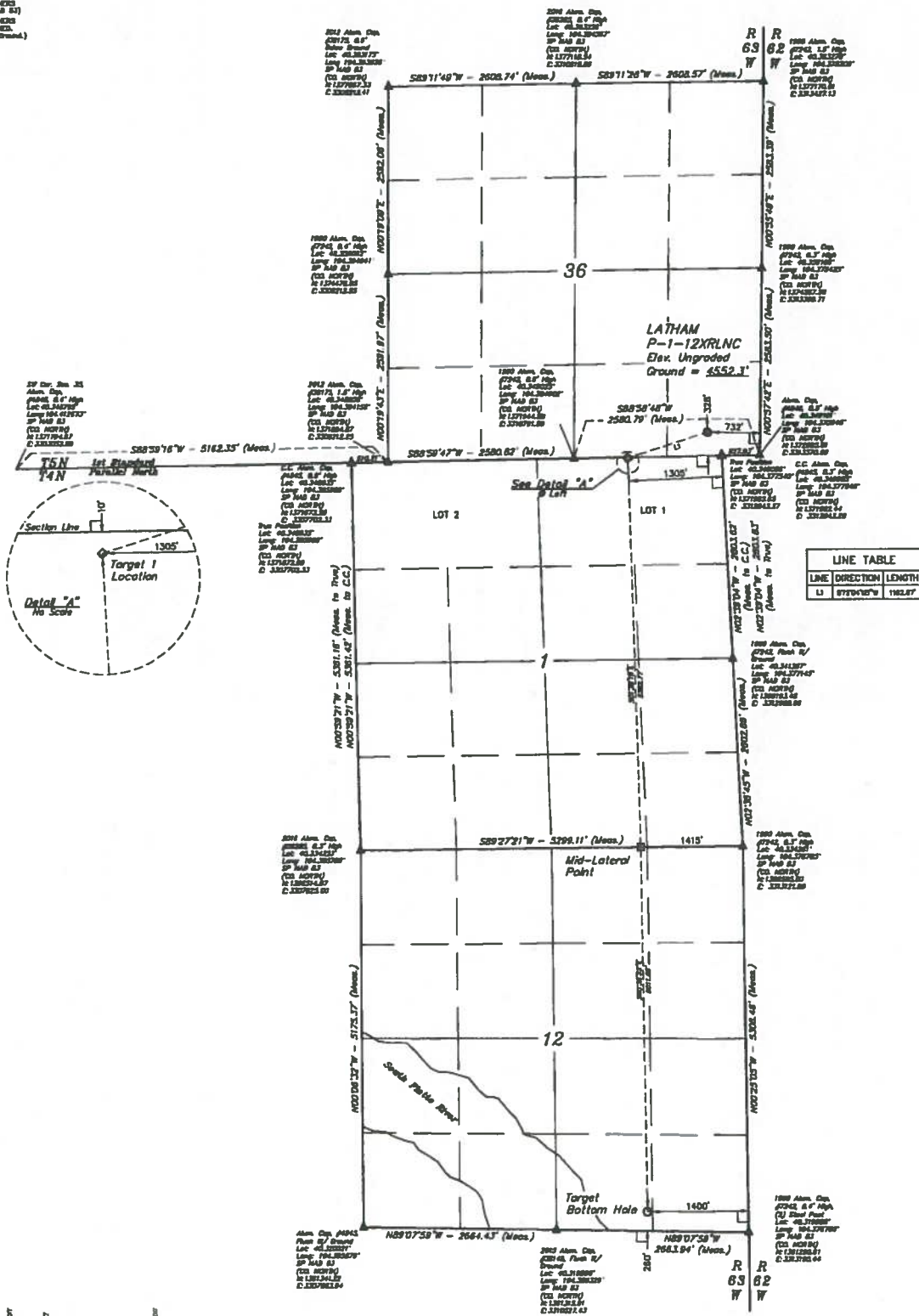
LATHAM U41-1-12XRLNB
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

REVISION	BY	DATE	REVISION
1	RWM	11/11/2010	1
2	RWM	11/11/2010	2

WELL LOCATION PLAN

LEGEND:

- 90° SYMBOL.
- - PROPOSED WELLHEAD.
- ◆ - TARGET 1 LOCATION.
- - MID-LATERAL TARGET.
- - TARGET BOTTOM HOLE.
- ▲ - SECTION CORNERS LOCATED (PLAS 83).
- △ - SECTION CORNERS RE-ESTABLISHED (PLAS 83 on ground.)



LINE TABLE		
LINE	DIRECTION	LENGTH
U3	S77D41E15W	1182.87'

NAD 83 (SURFACE 1 LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE 40°20'59.91" (40 149891)	LATITUDE 40°20'56.47" (40 149802)
LONGITUDE -104°22'41.66" (104 376244)	LONGITUDE -104°22'55.99" (104 382222)
STATE PLANE NAD 83 (CD, NORTH)	STATE PLANE NAD 83 (CD, NORTH)
N 173216.17 E 311264.85	N 171952.09 E 311559.02
NAD 83 (MID-LEVEL TARGET)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE 40°20'08.30" (40 334251)	LATITUDE 40°19'13.79" (40 320497)
LONGITUDE -104°22'54.66" (104 381859)	LONGITUDE -104°22'54.48" (104 381800)
STATE PLANE NAD 83 (CD, NORTH)	STATE PLANE NAD 83 (CD, NORTH)
N 136657.67 E 331707.88	N 136156.91 E 331787.22

[illegible]

XIV : 10-12-13 CIVIL (SURFACE LOCATION MOVIE)

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

LATHAM P-1-12XR1NC
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

SEARCHED BY THOMAS, RY	RYAN WILLIAMS, III 4/15/18	07-18-18 06:27:18	SC#1 P. 1 of 1 pages
---------------------------	-------------------------------	----------------------	-------------------------

WILLIAMS, RYAN

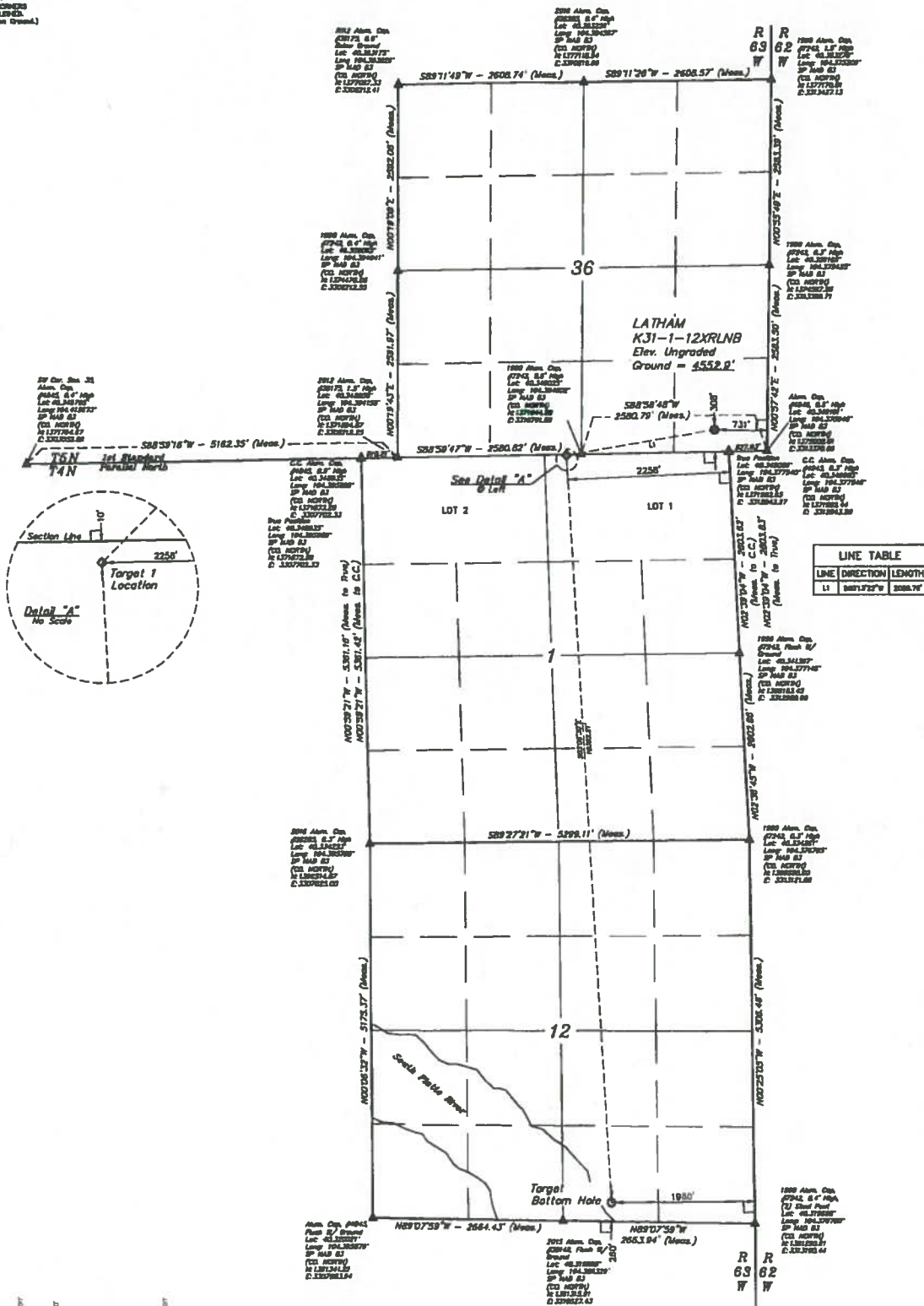
BASIS OF BEARINGS
TRANSVERSE VIBRATOR PROJECTION WITH
A CENTRAL MIRROR OF WAVELENGTH

BASIS OF RELATION
OF SOLUTION GENERATION AND

U.F.I.S. I.L.C.
 Office • 87 South 200 East
 Salt Lake City • (435) 784-1017

Page 15 of 36

LEGEND:
 - OF PIANO
 - PROPOSED WELLHEAD
 - TARGET 1 LOCATION
 - TARGET BOTTOM HOLE
 - SECTION CORNER LOCATED (NAD 83)
 - SECTION CORNER RE-ESTABLISHED (Per Sec. 6 of 1982) (NAD 83)



FDMIP-111	
NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°20'59.73" (40 349926")	LATITUDE = 40°20'56.17" (40 348992")
LONGITUDE = 104°22'41.68" (104 376244")	LONGITUDE = 104°23'08.30" (104 385640")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 172296.17' E 3112642.96'	N 171929.82' E 3110586.18'
NAD 83 (TARGET BOTTOM HOLE)	
LATITUDE = 40°19'13.92" (40 320532")	LATITUDE = 40°19'13.92" (40 320532")
LONGITUDE = 104°23'01.97" (104 383880")	LONGITUDE = 104°23'01.97" (104 383880")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1761569.19' E 3111207.28'	

BASE OF BEARINGS
 TR. W. 1/4 SEC. 14, T5N, R63W, 6th P.M.
 A CENTRAL MERIDIAN OF W. 100° 00' 00"

BASE OF BEARINGS
 DMS SOLUTION GENERATED NAVD 83

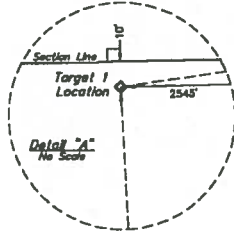


UTAH
 Corporate Office • 85 South 200 East
 Provo, UT 84601 • (435) 799-1017



**BONANZA CREEK ENERGY
 OPERATING COMPANY, LLC**
 LATHAM K31-1-12XRLNB
 SE 1/4 SEC. 14, T5N, R63W, 6th P.M.
 WELD COUNTY, COLORADO

REVIEWED BY: RYAN WILLY (ARS, EIT) 07-18-15
 DRAWN BY: CLIP 06-12-11
 REVISION: 1
 WITH LOCATION PLAN



LINE TABLE		
LINE	DIRECTION	LENGTH
11	S81°W 27°E	2.37-2.80



NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE = 40° 23' 59.54" (04 348971)	LATITUDE = 40° 23' 55.44" (04 348981)
LONGITUDE = 104° 21' 14.68" (04 373445)	LONGITUDE = 104° 21' 12.01" (04 366670)
STATE PLANE NAD 83 (CU. NORTH)	STATE PLANE NAD 83 (CU. NORTH)
N 172726.16 E 3112645.07	N 171923.11 E 3110299.23
NAD 83 (MID-LATERAL TARGET)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40° 20' 03.73" (04 334241)	LATITUDE = 40° 19' 14.71" (04 320593)
LONGITUDE = 104° 22' 13.56" (04 387099)	LONGITUDE = 104° 21' 14.92" (04 363479)
STATE PLANE NAD 83 (CU. NORTH)	STATE PLANE NAD 83 (CU. NORTH)
N 136551.51 E 3110246.98	N 136157.92 E 3110203.50

BASIS OF HEARINGS

BASES OF LEXICONS

UFIS, I.I.C.
Corporate Office • 25 South 1st East
Aurora, UT 84003 • (435) 726-1017



RIV 1 10-15-18 LTVH (SURFACT LOCATION) (U)

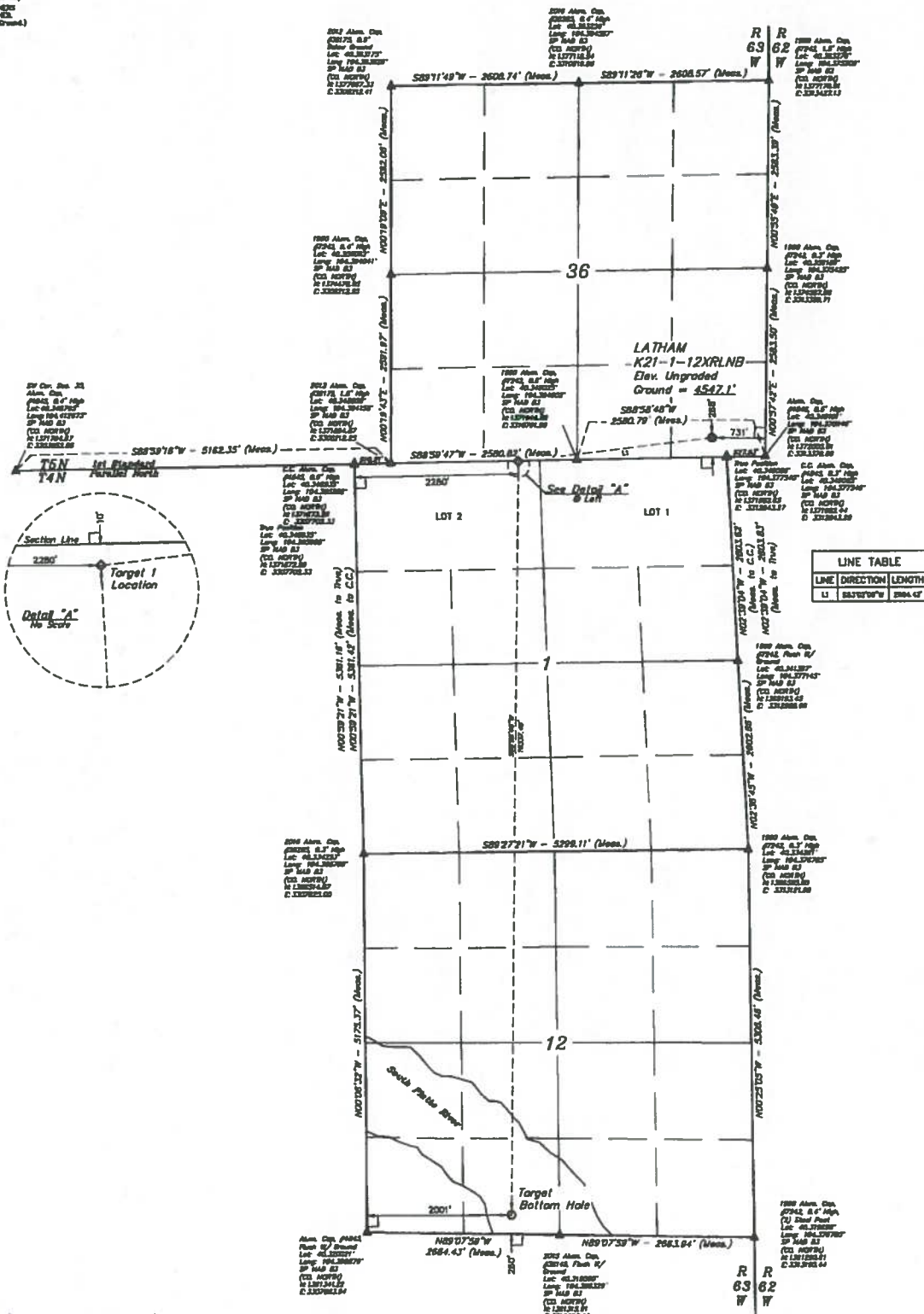
**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

LATHAM 6-1-12XRI NC
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P M
WELD COUNTY, COLORADO

SLIPPER	RYAN WILKINS D1	07-15-18	54114
THANKS	C 1511	06-12-18	1001007

WILL LOCATE PLAT

- LEGEND:**
- 1/2" STRICK
 - PROPOSED WELLHEAD
 - TARGET 1 LOCATION
 - △ TARGET BOTTOM HOLE
 - SECTION CORNER LOCATIONS (NAD 83)
 - SECTION CORNER RE-ESTABLISHED (Not Set on Ground) (NAD 83)

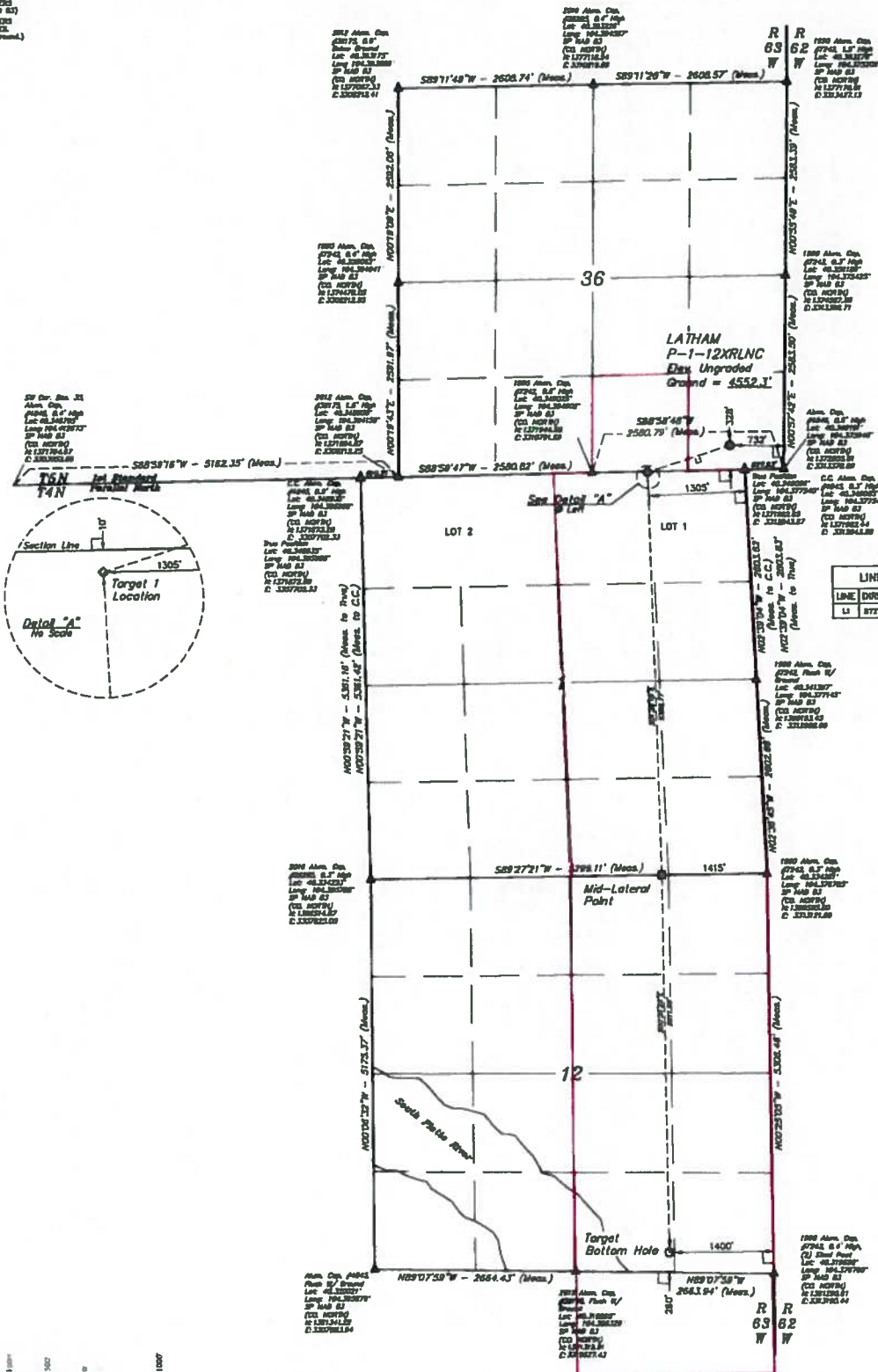


FD41P - 1A	
NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE = 40°20'59.14" (40°14'48.16")	LATITUDE = 40°20'56.11" (40°14'49.74")
LONGITUDE = 104°22'41.68" (104°37'24.55")	LONGITUDE = 104°23'16.12" (104°38'7.11")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1722356.19' E 1112641.18'	N 171915.82' E 1109981.26'
NAD 83 (TARGET BOTTOM HOLE)	
LATITUDE = 40°19'14.21" (40°32'06.14")	
LONGITUDE = 104°23'19.32" (104°38'7.01")	
STATE PLANE NAD 83 (CO. NORTH)	
N 1761582.16' E 1109962.57'	



LEGEND:

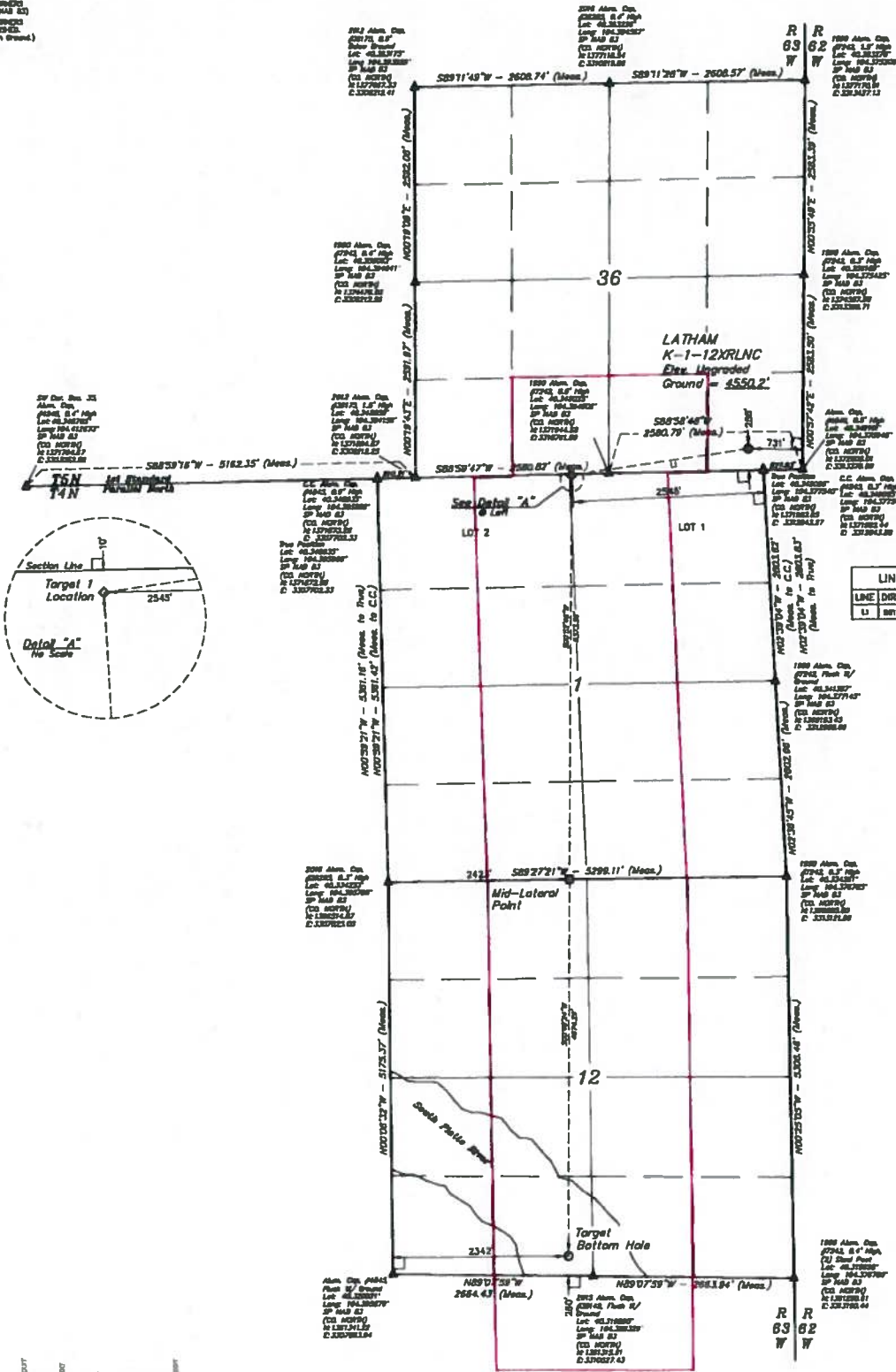
- 6" FINISH
- PROPOSED WELLHEAD
- TARGET 1 LOCATION
- MID-LATERAL TARGET
- TARGET BOTTOM HOLE
- SECTION CORNERS (LEASED) (Map 63)
- SECTION CORNERS (RE-ESTABLISHED) (Map 63)



**Wellbore
Spacing
Unit Outline**

NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE = 40°20'59.91" (40.349981°)	LATITUDE = 40°20'46.47" (40.349020°)
LONGITUDE = 104°22'41.68" (104.376244°)	LONGITUDE = 104°22'55.99" (104.382221°)
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1172116.17' E 3112642.85'	N 1171952.09' E 3111519.02'
NAD 83 (MID-LATERAL TARGET)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°20'03.30" (40.334351°)	LATITUDE = 40°19'13.79" (40.320497°)
LONGITUDE = 104°22'54.69" (104.381859°)	LONGITUDE = 104°22'54.48" (104.381800°)
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1306573.60' E 3111707.48'	N 1361363.88' E 3111787.22'

- LEGEND**
- 8" SYMBOL
 - PROPOSED WELLHEAD
 - TARGET 1 LOCATION
 - MID-LATERAL TARGET
 - TARGET BOTTOM HOLE
 - SECTION CORNER LOCATED (NAD 83)
 - SECTION CORNER RE-ESTABLISHED (Not Set on Ground) (NAD 83)



LINE TABLE		
LINE	DIRECTION	LENGTH
U	89°11'26"W	2545'

Wellbore
Spacing
Unit Outline

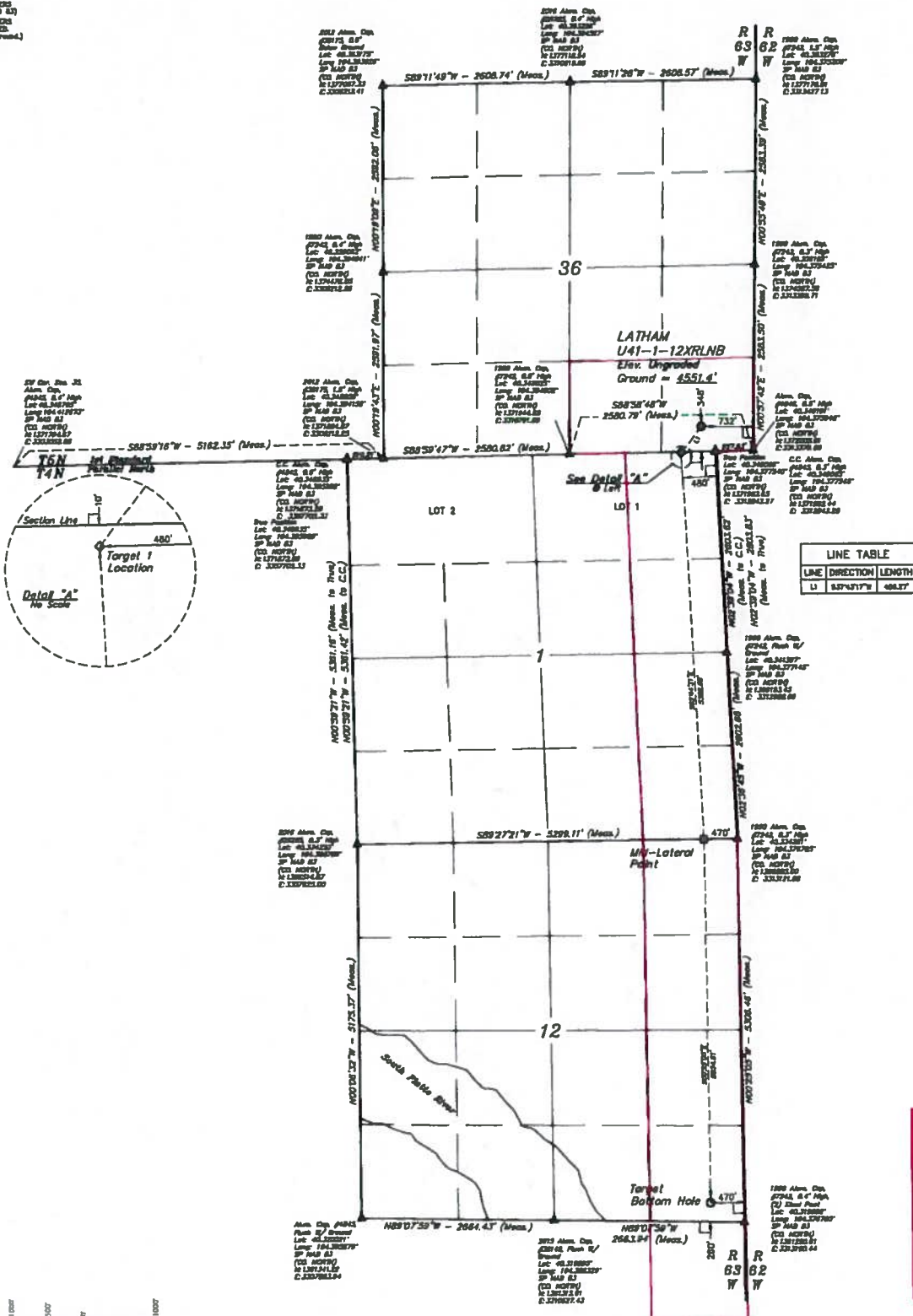
NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE = 40°26'39.44" (40 349871")	LATITUDE = 40°26'39.44" (40 349871")
LONGITUDE = 104°23'41.68" (104 376245")	LONGITUDE = 104°23'12.01" (104 386670")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1172276.18' E 1112641.07'	N 1171923.10' E 1110299.21'
NAD 83 (MID-LATERAL TARGET)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°26'03.27" (40 334241")	LATITUDE = 40°19'14.14" (40 320593")
LONGITUDE = 104°23'11.46" (104 376099")	LONGITUDE = 104°23'14.92" (104 387479")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1366551.57' E 3310246.99'	N 1361578.92' E 3310207.50'



BONANZA CREEK ENERGY OPERATING COMPANY, LLC
 LATHAM K-1-12XRLNC
 SE 1/4 SE 1/4 SECTION 36, T5N, R63W, 6th P.M.
 WELD COUNTY, COLORADO
 SURVEYED BY: RYAN WILLIAMS, L.L.C.
 DATE: 12/15/2018
 SCALE: 1" = 400'

LEGEND

- OF TRAIL
- PROPOSED HEADLINE
- — TARGET 1 LOCATION
- MID-LATERAL TARGET
- TARGET BOTTOM HOLE
- ▲ — SECTION CORNERS LOCATED (DAB B3)
- ▲ — SECTION CORNERS NOT LOCATED (DAB B3)



Wellbore
Spacing
Unit Outline

NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE = 40°21'00.11" (40 150016")	LATITUDE = 40°20'56.56" (40 149044")
LONGITUDE = 104°22'41.68" (104 376243")	LONGITUDE = 104°22'45.34" (104 379260")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1122136.16' E 1112642.71'	N 1171971.42' E 1112161.88'
NAD 83 (MID-LATERAL TARGET)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°20'03.33" (40 334257")	LATITUDE = 40°19'13.59" (40 320441")
LONGITUDE = 104°22'42.49" (104 376471")	LONGITUDE = 104°22'42.48" (104 376466")
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1166587.89' E 1112652.08'	N 1161555.04' E 1112717.13'

BASIS OF MEASUREMENTS
TRANSVERSE MEASUREMENTS WITH
A CENTRAL MERIDIAN TO "W" OF "W" OF "W"

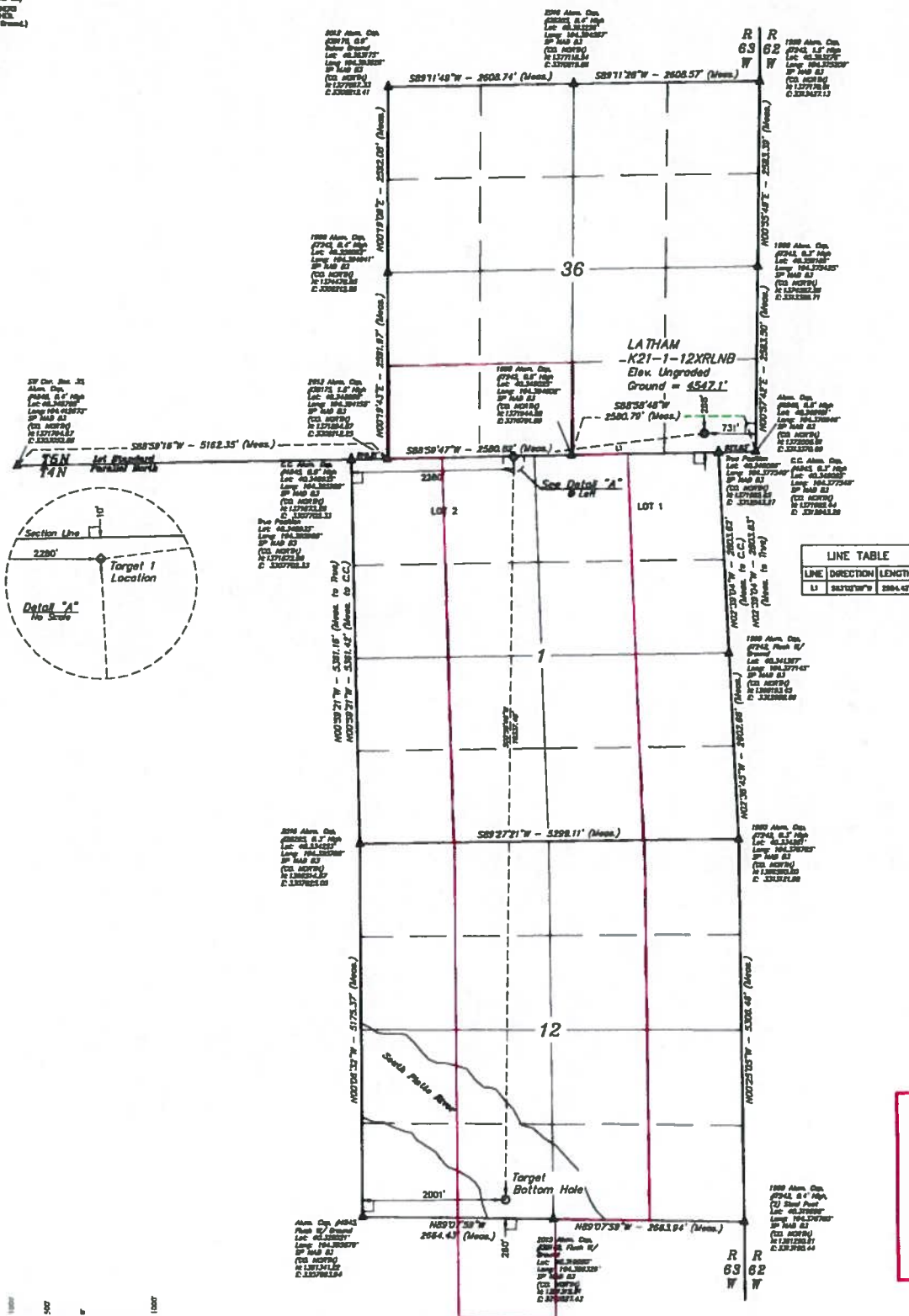
BASIS OF ELEVATION
GPS SOLUTION GEOMETRICALLY ADJUSTED

UPLS, LLC
Corporate Office: 725 South 200 East
Vernal, UT 84077 • (435) 796-1017



BONANZA CREEK ENERGY OPERATING COMPANY, LLC
LATHAM U41-1-12XRLNB
SE 1/4 SE 1/4 SECTION 36, T5N, R63W, 6th P.M.
WELD COUNTY, COLORADO

WELL LOCATION PLAN



LINE TABLE		
LINE	DIRECTION	LENGTH
U	S31°02'W	2804.42

Wellbore Spacing Unit Outline

NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET LOCATION)
LATITUDE = 40°29'59.14" (40 149816")	LATITUDE = 40°30'46.11" (40 148974")
LONGITUDE = 104°22'41.68" (104 318245")	LONGITUDE = 104°23'16.12" (104 318870")
STATE PLANE NAD 83 (CG NORTH)	STATE PLANE NAD 83 (CG NORTH)
N 1372256.19' E 3312643.10'	N 1369943.72' E 3310994.82'
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°19'14.21" (40 320614")	LATITUDE = 40°19'14.21" (40 320614")
LONGITUDE = 104°23'19.32" (104 318870")	LONGITUDE = 104°23'19.32" (104 318870")
STATE PLANE NAD 83 (CG NORTH)	STATE PLANE NAD 83 (CG NORTH)
N 1361582.16' E 3310962.57'	N 1361582.16' E 3310962.57'

[illegible]

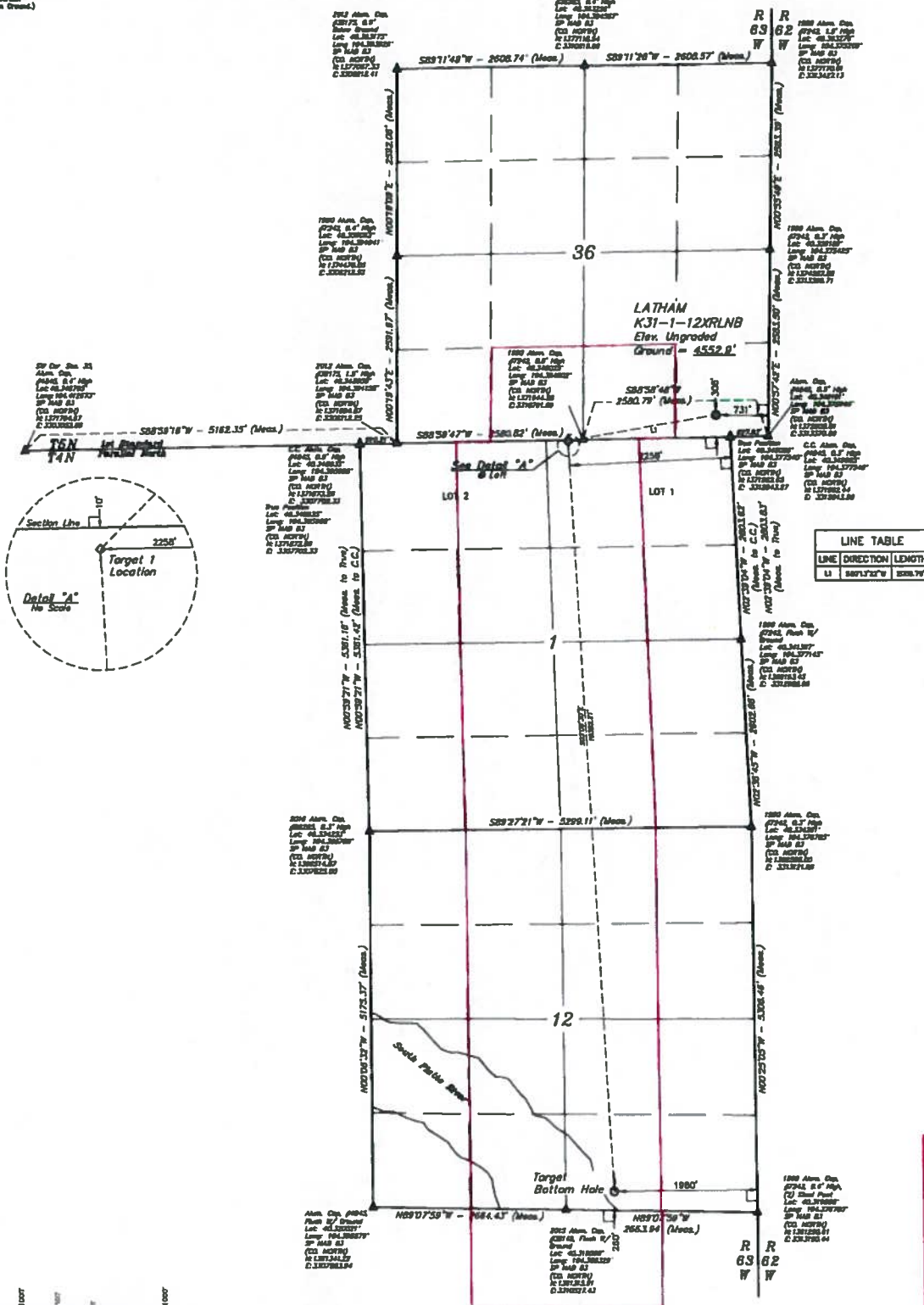
REV 1 10-12-12 CIVIL (SURFACE LOCATION STUDY)

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

LATHAM K21-1-12XR1NB
5E 1/4 SE 1/4, SECTION 36, T5N. R63W, 6th P.M.
WELD COUNTY, COLORADO

REVIEWED BY	RYAN WILLIAMS, III	07-18-10	SCARF
URANS BY	ELITE	09-27-10	1" = 100 FT

WELL LOCATION PLAT



LINE TABLE		
LINE	DIRECTION	LENGTH
U	S87.3°22'W	2008.70

Wellbore Spacing Unit Outline

NAD 83 (SURFACE LOCATION)	NAD 83 (TARGET 1 LOCATION)
LATITUDE - 40 3059 53 (40 349926"E)	LATITUDE - 41 3056 17 (40 348993"E)
LONGITUDE - 104 2241 68" (104 334244"W)	LONGITUDE - 104 2308 30" (104 336440"W)
STATE PLANE NAD 83 (CO. NORTH)	STATE PLANE NAD 83 (CO. NORTH)
N 1172396 17' E 3112642 96'	N 1170329 82' E 3110566 16'
	NAD 83 (TARGET BOTTOM HOLE F)
	LATITUDE - 40 1913 92" (40 326533"E)
	LONGITUDE - 104 2301 97" (104 333580"W)
	STATE PLANE NAD 83 (CO. NORTH)
	N 1361569 19' E 3111207 28'

BASE OF BEARINGS
TRANSVERSE MERCATOR PROJECTION WITH
A CONTROLLING MIDDLE LINE OF 125° 00' 00"

BASE OF BEARINGS
ON A SOLUTION GENERATED BY AID 96

UEIS, LLC
Corporate Office • 89 South 200 East



Page 23 of 36

**BONANZA CREEK ENERGY
OPERATING COMPANY, LLC**

LATHAM KJ1-1-12XR1NB
SE 1/4 SE 1/4, SECTION 36, T5N, R63W, 6th P.M.

SEARCHED BY	RYAN WILKINS, III	07-18-18	PC 110
INDEXED BY	ELITE	06-27-18	10:00 PM

WILL EDUCATION FEE

Amendment - Exhibit B

**SURFACE USE AGREEMENT
PAYMENT TABLE**

Fee Category	Tier 1	Tier 2	Tier 3
	State has a mineral interest of greater than or equal to 50% but less than 100% ⁵	State has a mineral interest of greater than 10% but less than 50%	State has a mineral interest of less than or equal to 10% ⁴
Initial Damage Payment: Initial well pad or facility payment per acre			TBD
Well Payments: Well payment per well ¹			TBD ⁶
Annual Payment: Rental due per year	of initial well pad or facility payment	of initial well pad or facility payment	TBD
Access Corridor Payment: Access roads, pipeline and powerline easements, and other off-pad disturbances	per acre or ROW pricing ² , one-time payment	per acre or ROW pricing ² , one-time payment	TBD
Production Facilities Payment: Off-property wells producing through an onsite Production Facility ³	per well, one-time payment	per well, one-time payment	TBD

- (1) Payment is due on or before the next annual anniversary date after the spud of a well.
- (2) per acre or the Standard State ROW rates, whichever is greater; may be subject to either the SUA or a separate ROW agreement.
- (3) Requires prior written approval by the State Land Board and payment before any construction may begin. Please refer to the COGCC Rules and Regulations for the definition of Production Facility.
- (4) All applications that fall into the Tier 3 category require that the proposed fee structure be submitted to the Board for approval.
- (5) SUAs are not required when the state has 100% mineral ownership or when wellbores are contained entirely within state minerals.
- (6) Well Payments will be when the Initial Damage Payment falls into Tier 1 or Tier 2.

Acreeage and Annual Payment Calculator				
Well Name	%	Percentage of State Minerals	Charge per Acre	
State North Platte T34-P31-36HNC		10% to 0% State minerals	Board Approval	
State North Platte T-P-36HNB		Greater then 10% but less then 50% State Minerals		
State North Platte T44-P41-36HNC		50% or greater but less then 100% State Minerals		
State North Platte 44-41-36HNB		100% State Minerals		
State North Platte Y44-U41-36HNC				
State North Platte 34-31-36HNB		Input the proposed total disturbance to the maximum known decimal point below		
State North Platte Y-U-36HC				
Latham P1-12XRLNC		Input the total acreage of the wellpad		
Latham K-1-12XRLNC		Input the total acreage of all pipeline easements, access roads, and other disturbances NOT on the well pad		
Latham U41-1-12XRLNB		Calculated Total State Percentage from previous column		
Latham K21-1-12XRLNB				
Latham K31-1-12XRLNB		Well pad cost per acre based to State Percentage		
		Off well pad cost per acre for off well pad disturbances		
		Initial payment due for well pad disturbance		
		One time payment due for off well pad disturbance		
		Final Calculated Payments		
		Total initial payment due for all planned construction		
		Annual Rental Payment due on anniversary date		

Total Well Payment Calculator				
Percentage of State Minerals	Enter the number of wells running into the State Facility for each category	Charge per well	Total Payments	
10% to 0% State minerals	4			
Greater then 10% but less then 50% State Minerals	1			
50% or greater but less then 100% State Minerals	2			
100% State Minerals	5			
		Total Well Payment*		

*Well payments are due prior to spud date. This number assumes full development

Amendment - Exhibit C



**BONANZA
CREEK**

410 17th Street, Suite 1400
Denver, CO 80202
(720) 440-6100 phone
(720) 305-0804 fax

Bonanzacrk.com

November 28, 2018

State Board of Land Commissioners
Attn: Steve Freese
1127 Sherman Street, Suite 300
Denver, Colorado 80203

RE: Site Consult Request
State North Platte T-36 Pad
Section 36, T5N R63W- SE/SE
Weld County, Colorado

Dear Mr. Freese,

Bonanza Creek Energy, Inc. (Bonanza) would like to request a consult of the above referenced well pad at your earliest convenience.

Bonanza intends to drill five (5) horizontal wells on the State North Platte T-36 Pad in 5N-63W Section 36. The wells Bonanza intends to drill are shown on the included survey plat package that is being submitted herewith. The proposed wells Bonanza intends to drill are the Latham P1-12XRLNC, Latham K-1-12XRLNC, Latham U41-1-12XRLNB, Latham K21-1-12XRLNB and Latham K31-1-12XRLNB. The proposed wells will be drilled in accordance with the lease rights granted by the State of Colorado. Bonanza understands that a Surface Use Agreement may be required prior to any off lease production.

Upon review of oil and gas lease no. OG 2148.12, Bonanza has determined that there are National Hog Farms (NHF) stipulations associated with the mentioned lease. However, Bonanza intends to accommodate any timing or locations issues that may affect its drilling operations.

Enclosed please find the applicable survey documents for the pad. Should you find the location satisfactory and approve the location and wells to be drilled, please sign and return the attached acknowledgement. If you have any questions, please do not hesitate to call or email me.

Should you have any questions, please do not hesitate to contact me at my phone number given below.

Sincerely,

Tim Koch

Senior Operations Landman
720-440-6128
tkoch@bonanzacrk.com

I hereby acknowledge receipt of the surveyed plats for the Bonanza's State North Platte T-36 Pad located in T5N R63W Section 36. I find the location to be satisfactory and approve of the wells to be drilled as shown on the attached plats.

Steve Freese
Minerals Field Technician

By: 

Date: 12/4/18

CORRESPONDENCE
410 17th Street Suite 1400
Denver CO 80202
Office (720) 440-6100



COLORADO

Parks and Wildlife

Department of Natural Resources

Fort Collins Area 4
317 West Prospect Road
Fort Collins, CO 80526-2003
P 970.472.4300 | F 970.472.4458

August 15, 2016

Alexander S Newell
Landman III, Rocky Mountain Region
Bonanza Creek Energy
410 17th ST, Suite 1400
Denver, CO 80202

RE: State Land Board Parcels in Central Weld County

Dear Mr. Newell,

Thank you for the opportunity to review and provide comment on potential wildlife impacts from proposed well sites on State Land Board Parcels in central Weld County. Colorado Parks and Wildlife staff is very familiar with the area and have reviewed the sections involved in the proposal. CPW has determined that there is no sensitive or critical wildlife habitat that qualifies under HB1298 and therefore there is no restricted surface occupancy area on these parcels. However, some of these parcels fall under critical severe winter habitat for both Pronghorn Antelope and Mule Deer.

The Township, Range and Sections of Weld County included in this review are:

3N 62W

Section 5: SE

Section 6: All

3N 63W

Section 2: All

Section 12: All

Section 14: All

Section 16: All

Section 22: All

Section 26: SW

Section 28: NE

Section 30: E2E2

4N 62W

Section 3: NE, NW

Section 4: All land north of the Riverside intake canal

Section 6: All

Section 8: All

Section 18: All

4N 63W



Section 36: All

5N 61W

Section 29: W2, SE

Section 30: All

Section 31: NE, E2SE

Section 32: All

5N 62W

Section 1: All

Section 2: All

Section 3: E2E2, W2E2

Section 11: All

Section 12: All

Section 13: All

Section 15: E2E2, W2, W2E2

Section 16: All

Section 24: All

Section 28: All

Section 30: All

Section 32: All

5N 63W

Section 26: All

Section 36: All

6N 61W

Section 6: N2, SW

Section 16: All

6N 62W

Section 1: NE

Section 36: All

7N 61W

Section 16: All

7N 62W

Section 16: All

Section 20: All

Section 26: All

Section 27: All

Section 36: All

8N 63W

Section 36: All

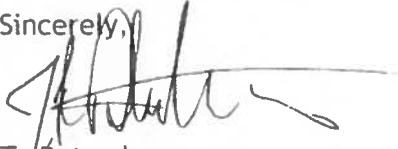
To mitigate impacts to these critical severe winter habitats, CPW would like to recommend the following:

- Consolidate construction activity to one location and access minerals from one central point to minimize fragmentation of available habitat.
- Fences should be limited to three or four strand fencing with a bottom strand minimum height of 17 inches and a maximum top smooth strand height of 42 inches along with double stays between posts.
- Development should be buffered away from all drainages and playas by a minimum of 300 feet.

- Conduct a survey for nesting raptors and Burrowing owls by a certified wildlife biologist in construction areas and around development. CPW can provide species specific raptor nest buffer guidelines in the event any nest sites are found.

If you have any questions regarding these recommendations, please feel free to contact District Wildlife Manager Brandon Muller at 970-692-9530.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ty Petersburg', with a long horizontal flourish extending to the right.

Ty Petersburg
Area Wildlife Manager- Area 4

CC: M. Leslie, T. Kroening, B. Muller, T. Florian, M. Grooms, M. Vieira, M. Sherman, J. George, S. Freese



STATE OF
COLORADO

Freese - DNR, Steve <steve.freese@state.co.us>

Re: Bonanza Creek Letter

1 message

Muller - DNR, Brandon <brandon.muller@state.co.us>
To: "Freese - DNR, Steve" <steve.freese@state.co.us>

Sun, Aug 28, 2016 at 9:56 PM

Steve,

Yes, you are correct in your summary of our conversation. If there is any additional confusion or need further clarification, please don't hesitate to call.

Thanks

Brandon

On Wed, Aug 17, 2016 at 6:57 AM, Freese - DNR, Steve <steve.freese@state.co.us> wrote:
Brandon,

Per our phone discussion yesterday I wanted to clear up a couple of points on the letter CPW wrote for Bonanza Creek and make sure that both the State Land Board and Bonanza are following CPW's recommendations.

1. The recommendation for a raptor survey only applies when there are drainages and/or trees in the vicinity of the wellpad.
2. The recommendation for the consolidation of the wellpads is to limit construction and disturbance to the extent possible. As per our discussion this will typically mean 2-4 wellpads to develop a minimum of one section. In most cases these wellpads will develop multiple sections and minimize the overall amount of roads and pipelines that need to be constructed due to horizontal drilling.

Please let me know if I have misunderstood anything from our conversation.

Thank you,

Steve Freese
Minerals Field Technician



COLORADO

State Land Board

Department of Natural Resources

P [303.866.3454](tel:303.866.3454) | F [303.866.3152](tel:303.866.3152) | C [303.905.2808](tel:303.905.2808)

1127 Sherman Street, Suite 300, Denver, CO 80203

Steve.Freese@state.co.us | www.colorado.gov/statelandboard

----- Forwarded message -----

From: Kostiv - DNR, Denise <denise.kostiv@state.co.us>

Date: Tue, Aug 16, 2016 at 9:57 AM

Subject: Bonanza Creek Letter

To: Ty Petersburg - DNR <ty.petersburg@state.co.us>

Cc: Mark Leslie - DNR <mark.leslie@state.co.us>, Tom Kroening - DNR <tom.kroening@state.co.us>, Brandon Muller - DNR <brandon.muller@state.co.us>, Troy Florian - DNR <troy.florian@state.co.us>, Michael Grooms - DNR <michael.grooms@state.co.us>, Mark Vieira - DNR <mark.vieira@state.co.us>, Mike Sherman - DNR <mike.sherman@state.co.us>, Janet George - DNR <janet.george@state.co.us>, Steve Freese - DNR <steve.freese@state.co.us>

All,

The attached letter was sent to Alexander Newell with Bonanza Creek Energy today.

Denise

—
Denise Kostiv
Administrative Assistant III
Area 4 - Fort Collins



COLORADO

Parks and Wildlife

Department of Natural Resources

P 970-472-4309 | F 970-472-4458

317 W. Prospect, Fort Collins, CO 80526

denise.kostiv@state.co.us | www.cpw.state.co.us

A desktop review was performed using the CNHP database that was last updated in May of 2013. Upon completion of the review it was determined that there are no issues of concern for Sect. 36 Twp 5N Rng 63W.



Steve Freese
Mineral Field Technician
Colorado State Land Board

Date 12/2/15



410 17th Street, Suite 1400
Denver, CO 80202
(720) 440-6100 phone
(720) 305-0804 fax

Bonanzacrk.com

November 19, 2018

State Board of Land Commissioners
1127 N. Sherman St Suite 300
Denver, CO 80203

Exception Location Waiver - COGCC Wattenberg Window and Twinning Rules (318A.a, 318A.c.)
State North Platte T-36 Pad- SESE of Section 36, T5N, R63W, 6th PM, Weld County, Colorado

EXISTING STATE NORTH PLATTE T-P-36HNB	EXISTING STATE NORTH PLATTE Y44-U41-36HNC
EXISTING STATE NORTH PLATTE T44-P41-36HNC	LATHAM U41-I-12XRLNB
EXISTING STATE NORTH PLATTE 44-41-36HNB	LATHAM P-I-12XRLNC
EXISTING STATE NORTH PLATTE 34-31-36HNB	LATHAM K31-I-12XRLNB
EXISTING STATE NORTH PLATTE Y-U-36HC	LATHAM K-I-12XRLNC
EXISTING STATE NORTH PLATTE T34-P31-36HNC	LATHAM K21-I-12XRLNB

To Whom It May Concern,

Bonanza Creek Energy Operating Company LLC ("Bonanza") intends to drill the above referenced Niobrara Formation horizontal oil and gas wells, to be located as described above. Bonanza Creek reserves the right to change any of the well names listed above at its discretion without further notice.

The Colorado Oil and Gas Conservation Commission (COGCC) has implemented certain rules which pre-determine the location of oil and gas wells in this area; and to which exemptions may be granted with the Surface Owner's approval.

COGCC Rule 318A.a. defines a "400' Greater Wattenberg Area (GWA) Window" as "A square with sides four hundred (400) feet in length, the center of which is the center of any governmental quarter-quarter section." The rule also defines an 800' GWA Window as "a square with sides eight hundred (800) feet in length, the center of which is the center of any governmental quarter section." In order drill to horizontal wells with sufficient lateral length in the producible zone; the wellhead surface locations have been staked outside of the associated GWA Window.

COGCC Rule 318A.c. requires that an exception be granted by the Surface Owner for a well permitted to be greater than 50' from an existing well in the same quarter-quarter. For safety reasons, multiple rows of wells have been staked with greater than 50' between rows of wellheads.

Bonanza respectfully requests you or your authorized agent complete and signs the attached form; scan or email the signed waiver to mfaith@bonanzacrk.com. Please do not hesitate to call me, at (303) 803-1732, should you have any questions or concerns.

Sincerely,
BONANZA CREEK ENERGY OPERATING COMPANY LLC

Maxwell Faith, CPL
Land Manager

CORPORATE OFFICE
410 17th Street, Suite 1400
Denver, CO 80202
Office (720) 440-6100

MAGNOLIA OFFICE
50 Columbia 300
Magnolia, AR 71753
Office (870) 235-0400



**BONANZA
CREEK**

410 17th Street, Suite 1400
Denver, CO 80202
(720) 440-6100 phone
(720) 305-0804 fax

Bonanzacrk.com

SURFACE OWNER RESPONSE LETTER
COGCC Rule 318A.a. & 318A.c. Exceptions

Exception Location Waiver - COGCC Wattenberg Window and Twinning Rules (318A.a, 318A.c.)
State North Platte T-36 Pad- SESE of Section 36, T5N, R63W, 6th PM, Weld County, Colorado

EXISTING STATE NORTH PLATTE T-P-36HNB	EXISTING STATE NORTH PLATTE Y44-U41-36HNC
EXISTING STATE NORTH PLATTE T44-P41-36HNC	LATHAM U41-1-12XRLNB
EXISTING STATE NORTH PLATTE 44-41-36HNB	LATHAM P-1-12XRLNC
EXISTING STATE NORTH PLATTE 34-31-36HNB	LATHAM K31-1-12XRLNB
EXISTING STATE NORTH PLATTE Y-U-36HC	LATHAM K-1-12XRLNC
EXISTING STATE NORTH PLATTE T34-P31-36HNC	LATHAM K21-1-12XRLNB

Having reviewed Bonanza Creek Energy Operating Company LLC letter **Exception Location Waiver, COGCC Wattenberg Window and Twinning Rules** dated November 19, 2018, the undersigned Surface Owner or their Designated Representative hereby grants Bonanza exceptions to the following COGCC Rules with respect to the above referenced well locations.

COGCC Rule 318A.a – Well location within a GWA Window
COGCC Rule 318A.c – Well location within 50' of an existing well

SURACE OWNER or DESIGNATED REPRESENTATIVE:

By Steve Freese Date 12/14/18 By _____ Date _____
Printed Name Steve Freese Printed Name _____
Title Minerals Field Tech CSLB Title _____
Phone Number 303-905-2808 Phone Number _____

CORPORATE OFFICE
410 17th Street, Suite 1400
Denver, CO 80202
Office (720) 440-6100

MAGNOLIA OFFICE
50 Columbia 300
Magnolia, AR 71753
Office (870) 235-4100