

February 2, 2004

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill—Dominion Exploration & Production, Inc.  
RBU 16-20F, Surface Location: 703' FSL, 2,143' FEL, SW/4 SE/4  
Target Location: 750' FSL, 550' FEL, SE/4 SE/4  
Section 20, T10S, R20E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of Dominion Exploration & Production, Inc. (Dominion), Buys & Associates, Inc. respectfully submits the enclosed original and two copies of the *Application for Permit to Drill (APD)* for the above referenced directional well. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Drilling Plan with Directional Drilling Proposal;

Exhibit "E" - Surface Use Plan;

Exhibit "F" - Typical BOP and Choke Manifold diagram.

Please accept this letter as Dominion's, written request for confidential treatment of all information contained in and pertaining to this application.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Carla Christian of Dominion at 405-749-5263 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*  
Don Hamilton  
Agent for Dominion

cc: Diana Mason, Division of Oil, Gas and Mining  
Amanda Mart, Bureau of Indian Affairs  
Carla Christian, Dominion  
Marty Buys, Buys & Associates, Inc.

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001

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
 DRILL  DEEPEN

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Dominion Exploration & Production, Inc.

3. ADDRESS AND TELEPHONE NO.  
 14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 4420338Y 703' FSL, 2,143' FEL 39.92760 SW/4 SE/4  
 At proposed prod. zone 612252X 750' FSL, 550' FEL 109.68639 SE/4 SE/4  
 BHL 4420352Y 39.92760  
 612238X-109.68071

5. LEASE DESIGNATION AND SERIAL NO.  
 U-0143520A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 Ute Indian Tribe

7. UNIT AGREEMENT NAME  
 River Bend Unit

8. FARM OR LEASE NAME, WELL NO.  
 RBU 16-20F

9. API WELL NO.  
 43-047-35467

10. FIELD AND POOL, OR WILDCAT  
 Natural Buttes

11. SEC., T., R., M., OR BLK.  
 Section 20,  
 T10S, R20E, SLB&M

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 11.12 miles south of Ouray, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 703'

16. NO. OF ACRES IN LEASE  
 640

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40 acres

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 41'

19. PROPOSED DEPTH  
 8,000'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5,140' GR

22. APPROX. DATE WORK WILL START\*  
 July 15, 2004

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48#	500'	450 sacks Class C cement + 2% CaCl <sub>2</sub> + 1/4 #/sk. Poly-E-Flakes
12-1/4"	9-5/8" J-55 LT&C	36#	2,800'	300 sacks Lead and 390 sacks Tail (see Drilling Plan)
7-7/8"	5-1/2" Mav-80 LT&C	17#	8,000'	90 sacks Lead and 600 sacks Tail (see Drilling Plan)

Bond Information:

Bond coverage is provided by Travelers Casualty and Surety Company of America, Bond #76S 63050 0330

Other Information:

Drilling Plan and Surface Use Plan are attached.  
Dominion requests that this complete application for permit to drill be held confidential.  
A request for exception to spacing (R649-3-11) is hereby requested based on topography since the well is located within 460' of the drilling unit boundary. Dominion Exploration & Production, Inc. is the only owner and operator within 460' of the proposed well and all points along the intended well bore path. Included with the APD is the following supplemental information:

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Don Hamilton Don Hamilton TITLE Agent for Dominion DATE February 2, 2004

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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:

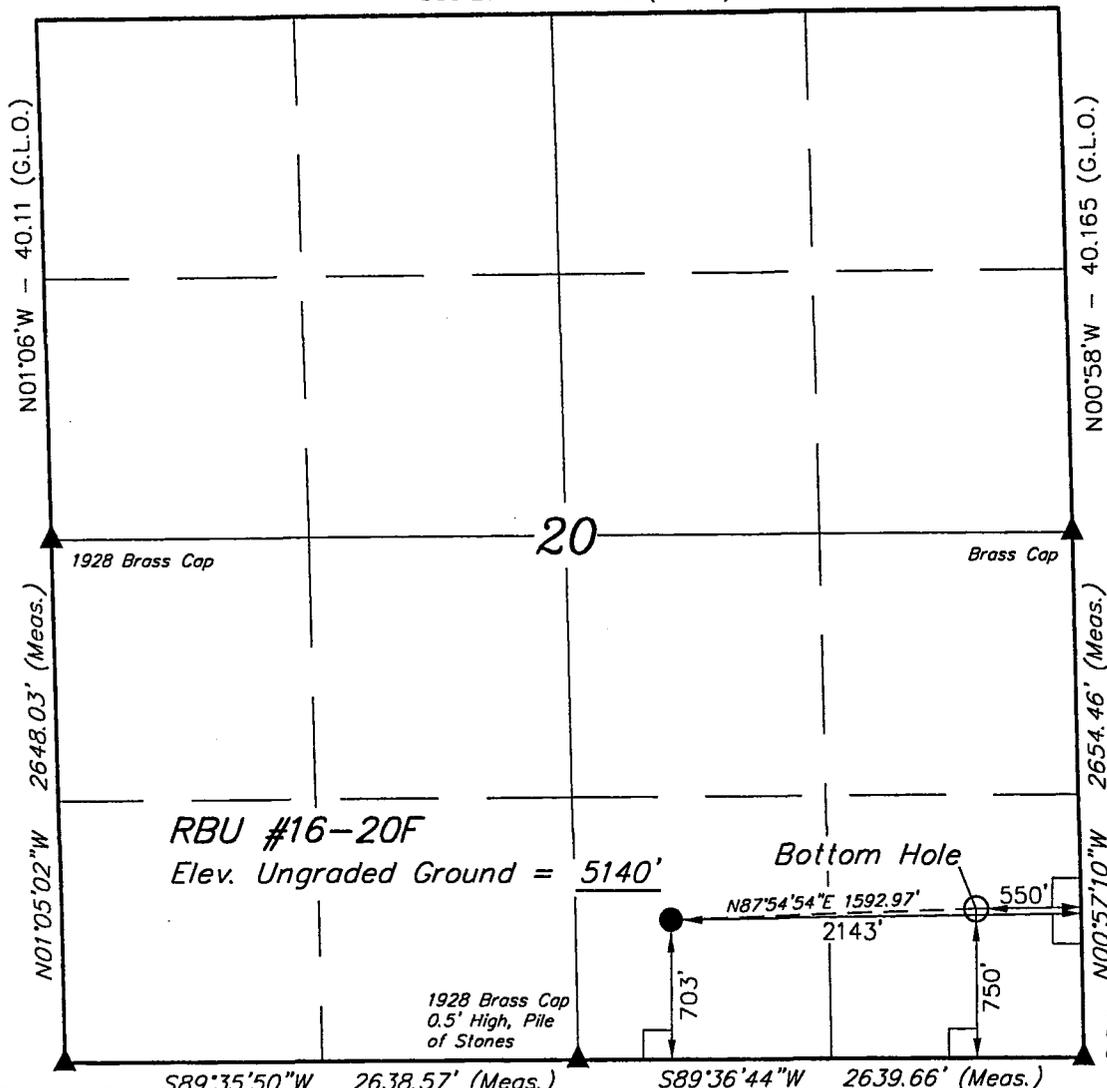
APPROVED BY [Signature] TITLE BRADLEY G. HILL DATE 02-10-04  
ENVIRONMENTAL SCIENTIST III

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the

# T10S, R20E, S.L.B.&M.

S89°29'W - 80.12 (G.L.O.)



**RBU #16-20F**  
Elev. Ungraded Ground = 5140'

Bottom Hole

N87°54'54"E 1592.97'  
2143'

550'

703'

750'

1928 Brass Cap  
0.5' High, Pile  
of Stones

1928 Brass Cap  
0.5' High, Pile  
of Stones

S89°35'50"W 2638.57' (Meas.)

S89°36'44"W 2639.66' (Meas.)

1928 Brass Cap  
0.7' High, Pile  
of Stones

**LEGEND:**

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

(NAD 83)  
LATITUDE = 39°55'38.57" (39.927381)  
LONGITUDE = 109°41'13.54" (109.687094)

## DOMINION EXPLR. & PROD., INC.

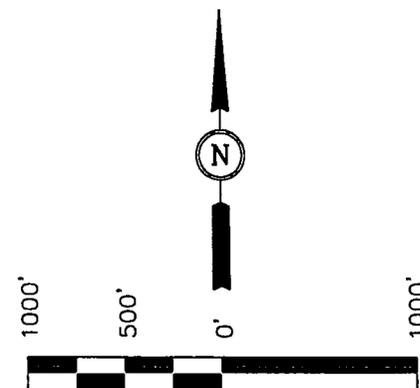
Well location, RBU #16-20F, located as shown in the SW 1/4 SE 1/4 of Section 20, T10S, R20E, S.L.B.&M. Uintah County Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.

### BASIS OF BEARINGS

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



SCALE

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.

*Robert A. Key*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

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

SCALE 1" = 1000'	DATE SURVEYED: 7-2-03	DATE DRAWN: 7-3-03
PARTY S.H. D.A. C.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE DOMINION EXPLR. & PROD., INC.	

# DRILLING PLAN

## APPROVAL OF OPERATIONS

### Attachment for Permit to Drill

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** RBU 16-20F  
SHL: 703' FSL & 2143' FEL Section 20-10S-20E  
BHL: 750' FSL & 550' FEL Section 20-10S-20E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Uintah
2. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS

<u>Formation</u>	<u>Depth</u>
Green River	1.111'
Wasatch Tongue	4.021'
Green River Tongue	4.351'
Wasatch	4.511'
Chapita Wells	5.411'
Uteland Buttes	6.611'
Mesaverde	7.711'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Green River	1.111'	Oil
Wasatch Tongue	4.021'	Oil
Green River Tongue	4.351'	Oil
Wasatch	4.511'	Gas
Chapita Wells	5.411'	Gas
Uteland Buttes	6.611'	Gas
Mesaverde	7.711'	Gas

4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom</u>	<u>Hole</u>
Surface	13-3/8"	48.0 ppf	H-40	STC	0'	500'	17-1/2"
Intermediate	9-5/8"	36.0 ppf	J-55	LTC	0'	2,800'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	8,000'	7-7/8"

5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized.

Intermediate hole: To be drilled using a diverter stack with rotating head to divert flow from rig floor.

Production hole: Prior to drilling out the intermediate casing shoe, 3,000 psi or greater BOP equipment will be installed.

The pipe rams will be operated at least once per day from intermediate casing to total depth. The blind rams will be tested once per day from intermediate casing to total depth if operations permit.

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling below the intermediate casing shoe. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

#### 6. MUD SYSTEMS

- An air or an air/mist system may be used to drill the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.

<u>Depths</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' - 500'	8.4	Air foam mist, no pressure control
500' - 2,800'	8.6	Fresh water, rotating head and diverter
2,800' - 8,000'	8.6	Fresh water/2% KCL/KCL mud system

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a constant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 100' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to intermediate casing.
- The gamma ray will be left on to record from total depth to intermediate casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to intermediate casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500-2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H<sub>2</sub>S gas.

#### 11. WATER SUPPLY

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

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**DRILLING PLAN**

**APPROVAL OF OPERATIONS**

**12. CEMENT SYSTEMS**

**a. Surface Cement:**

Drill 17-1/2" hole to 500' and cement 13-3/8" to surface with 450 sks class "C" cement with 2% CaCl<sub>2</sub> and 1/4 #/sk. Poly-E-Flakes (volume includes 40% excess). Top out if necessary with Top Out cement listed below.

**b. Intermediate Casing Cement:**

- Drill 12-1/4" hole to 2,800'±, run and cement 9-5/8" to surface.
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug two joints off bottom e) bottom three joints thread locked f) pump job with bottom plug only.
- Cement to surface not required due to surface casing set deeper than normal.

<u>Type</u>	<u>Sacks</u>	<u>Interval</u>	<u>Density</u>	<u>Yield</u>	<u>Hole</u>	<u>Cement</u>	<u>Excess</u>
					<u>Volume</u>	<u>Volume</u>	
Lead	300	0'-2,000'	11.0 ppg	3.82 CFS	658 CF	1,152 CF	75%
Tail	390	2,000'-2,800'	15.6 ppg	1.20 CFS	268 CF	469 CF	75%

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
 Slurry yield: 3.82 cf/sack                      Slurry weight: 11.00 #/gal.  
 Water requirement: 22.95 gal/sack  
 Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
 Pump Time: 1 hr. 5 min. @ 90 °F.  
 Compressives @ 95 °F: 24 Hour is 4,700 psi

**c. Production Casing Cement:**

- Drill 7-7/8" hole to 8,000'±, run and cement 5 1/2".
- Cement interface is at 3,700', which is typically 500'-1,000' above shallowest pay.
- Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
- Displace with 3% KCL.

<u>Type</u>	<u>Sacks</u>	<u>Interval</u>	<u>Density</u>	<u>Yield</u>	<u>Hole</u>	<u>Cement</u>	<u>Excess</u>
					<u>Volume</u>	<u>Volume</u>	
Lead	90	3,700'-4,500'	11.5 ppg	3.12 CFS	139 CF	277 CF	100%
Tail	600	4,500'-8,000'	13.0 ppg	1.75 CFS	525 CF	1050 CF	100%

Note: Caliper will be run to determine exact cement volume.

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
 Slurry yield: 3.12 cf/sack                      Slurry weight: 11.60 #/gal.  
 Water requirement: 17.71 gal/sack  
 Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Halliburton HLC blend (Prem Plus V/ JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.  
 Slurry yield: 1.75 cf/sack                      Slurry weight: 13.00 #/gal.  
 Water requirement: 9.09 gal/sack  
 Compressives @ 165°F: 905 psi after 24 hours

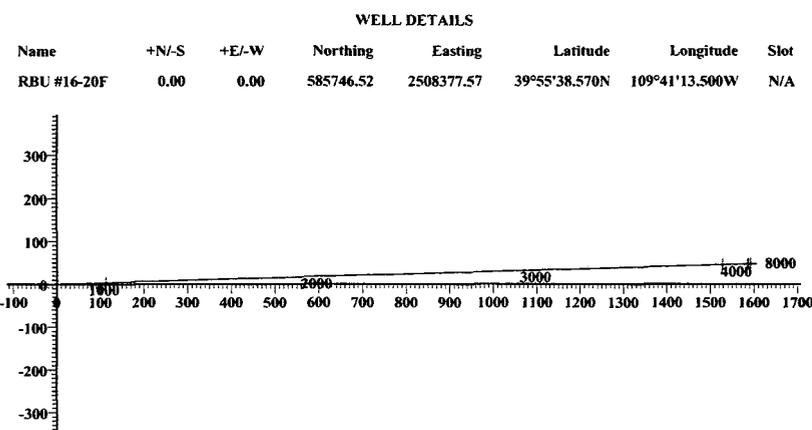
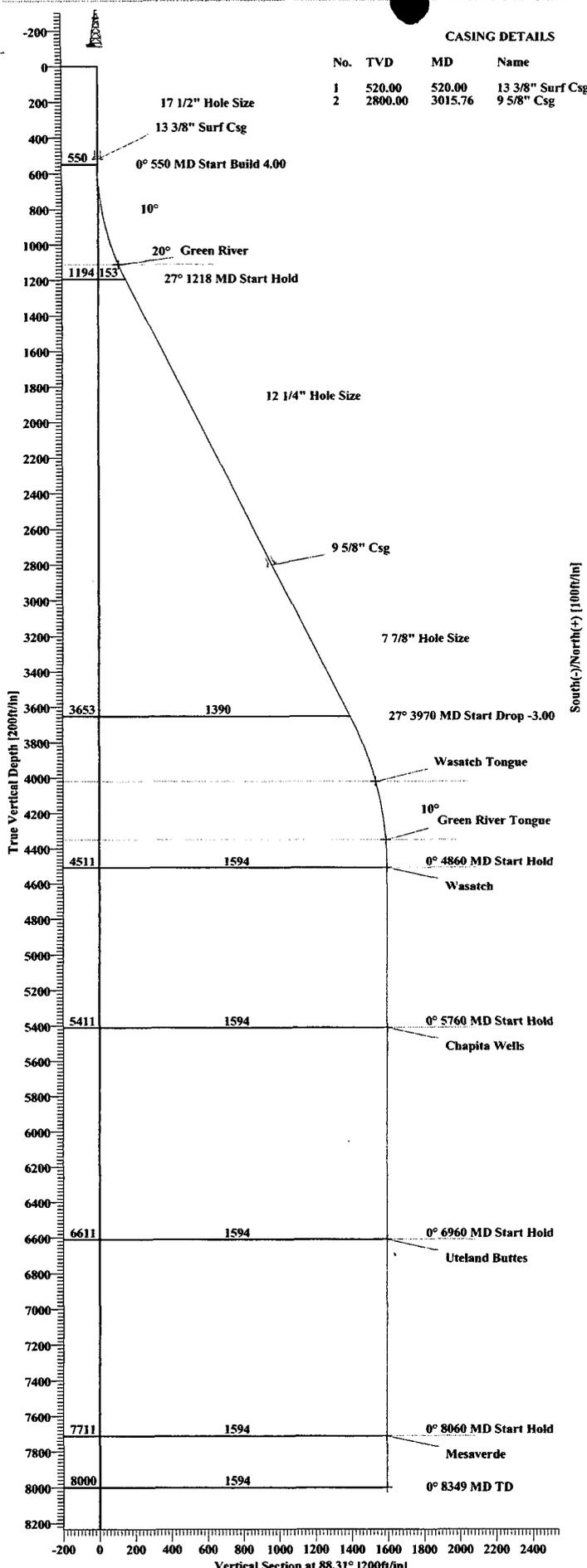
**13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS**

Starting Date: July 15, 2004  
 Duration: 14 Days



# Dominion<sup>SM</sup>

Field: Uintah County, Utah  
 Site: RBU #16-20F  
 Well: RBU #16-20F  
 Wellpath: OH  
 Plan: Plan #1



**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	88.31	0.00	0.00	0.00	0.00	0.00	0.00	
2	550.00	0.00	88.31	550.00	0.00	0.00	0.00	88.31	0.00	
3	1217.70	26.71	88.31	1193.78	4.51	152.76	4.00	88.31	152.82	
4	3970.21	26.71	88.31	3652.62	46.99	1389.32	0.00	0.00	1389.93	
5	4860.48	0.00	88.31	4511.00	47.00	1593.00	3.00	180.00	1593.69	Wasatch
6	5760.48	0.00	88.31	5411.00	47.00	1593.00	0.00	88.31	1593.69	Chapita Wells
7	6960.48	0.00	88.31	6611.00	47.00	1593.00	0.00	88.31	1593.69	Uteland Buttes
8	8060.48	0.00	88.31	7711.00	47.00	1593.00	0.00	88.31	1593.69	Mesaverde
9	8349.48	0.00	88.31	8000.00	47.00	1593.00	0.00	88.31	1593.69	TD

**TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Green River	1111.00	3.37	114.38	585749.89	2508491.95	39°55'38.580N	109°41'12.031W
Wasatch Tongue	4021.00	45.11	1529.10	585791.63	2509906.67	39°55'38.709N	109°40'53.863W
Green River Tongue	4351.00	46.80	1506.29	585793.32	2509963.86	39°55'38.714N	109°40'53.129W
Wasatch	4511.00	47.00	1593.00	585793.52	2509970.57	39°55'38.715N	109°40'53.043W
Chapita Wells	5411.00	47.00	1593.00	585793.52	2509970.57	39°55'38.715N	109°40'53.043W
Uteland Buttes	6611.00	47.00	1593.00	585793.52	2509970.57	39°55'38.715N	109°40'53.043W
Mesaverde	7711.00	47.00	1593.00	585793.52	2509970.57	39°55'38.715N	109°40'53.043W
TD	8000.00	47.00	1593.00	585793.52	2509970.57	39°55'38.715N	109°40'53.043W

**FIELD DETAILS**  
 Uintah County, Utah  
 Natural Buttes Field  
 USA

**SITE DETAILS**  
 RBU #16-20F  
 River Bend Unit

Geodetic System: US State Plane Coordinate System 1927  
 Ellipsoid: NAD27 (Clarke 1866)  
 Zone: Utah, Central Zone  
 Magnetic Model: igrf2000

System Datum: Mean Sea Level  
 Local North: Grid North

Site Centre Latitude: 39°55'38.570N  
 Longitude: 109°41'13.500W

Ground Level: 5140.00  
 Positional Uncertainty: 0.00  
 Convergence: 1.16

**WELLPATH DETAILS**  
 OH

Rig:  
 Ref. Datum: est. RKB 5158.00ft

V.Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
88.31°	0.00	0.00	0.00

Magnetic Field  
 Strength: 531.76nT  
 Dip Angle: 66.02°  
 Date: 10/22/2003  
 Model: igrf2000

Plan: Plan #1 (RBU #16-20F/OH)

Created By: Robbie Melancon Date: 10/22/2003

# Ryan Energy

## Ryan Planing Full

<b>Company:</b> Dominion Exploration & Product	<b>Date:</b> 10/22/2003	<b>Time:</b> 12:23:28	<b>Page:</b> 1
<b>Field:</b> Uintah County, Utah	<b>Co-ordinate(NE) Reference:</b>	Site: RBU #16-20F, Grid North	
<b>Site:</b> RBU #16-20F	<b>Vertical (TVD) Reference:</b>	est. RKB 5158.0	
<b>Well:</b> RBU #16-20F	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,88.31Azi)	
<b>Wellpath:</b> OH	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

<b>Plan:</b> Plan #1	<b>Date Composed:</b>	10/15/2003	
<b>Principal:</b> Yes	<b>Version:</b>	1	
	<b>Tied-to:</b>	From Surface	

<b>Field:</b> Uintah County, Utah Natural Buttes Field USA	<b>Map Zone:</b>	Utah, Central Zone	
<b>Map System:</b> US State Plane Coordinate System 1927	<b>Coordinate System:</b>	Site Centre	
<b>Geo Datum:</b> NAD27 (Clarke 1866)	<b>Geomagnetic Model:</b>	igrf2000	
<b>Sys Datum:</b> Mean Sea Level			

<b>Site:</b> RBU #16-20F			
River Bend Unit			
<b>Site Position:</b>	<b>Northing:</b> 585746.52 ft	<b>Latitude:</b> 39 55 38.570 N	
<b>From:</b> Geographic	<b>Easting:</b> 2508377.57 ft	<b>Longitude:</b> 109 41 13.500 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 5140.00 ft		<b>Grid Convergence:</b> 1.16 deg	

<b>Well:</b> RBU #16-20F			
Sec 20, T10S, R20E			
<b>Well Position:</b>	<b>Northing:</b> 585746.52 ft	<b>Latitude:</b> 39 55 38.570 N	
<b>From:</b> +N/-S 0.00 ft	<b>Easting:</b> 2508377.57 ft	<b>Longitude:</b> 109 41 13.500 W	
<b>Position Uncertainty:</b> 0.00 ft			

<b>Wellpath:</b> OH	<b>Drilled From:</b>	Surface	
<b>Current Datum:</b> est. RKB	<b>Tie-on Depth:</b>	0.00 ft	
<b>Magnetic Data:</b> 10/22/2003	<b>Above System Datum:</b>	Mean Sea Level	
<b>Field Strength:</b> 53176 nT	<b>Declination:</b>	12.35 deg	
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b>	66.02 deg	
ft	+N/-S	+E/-W	Direction
ft	ft	ft	deg
0.00	0.00	0.00	88.31

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	88.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	88.31	550.00	0.00	0.00	0.00	0.00	0.00	88.31	
1217.70	26.71	88.31	1193.78	4.51	152.76	4.00	4.00	0.00	88.31	
3970.21	26.71	88.31	3652.62	40.99	1389.32	0.00	0.00	0.00	0.00	
4860.48	0.00	88.31	4511.00	47.00	1593.00	3.00	-3.00	0.00	180.00	Wasatch
5760.48	0.00	88.31	5411.00	47.00	1593.00	0.00	0.00	0.00	88.31	Chapita Wells
6960.48	0.00	88.31	6611.00	47.00	1593.00	0.00	0.00	0.00	88.31	Uteland Buttes
8060.48	0.00	88.31	7711.00	47.00	1593.00	0.00	0.00	0.00	88.31	Mesaverde
8349.48	0.00	88.31	8000.00	47.00	1593.00	0.00	0.00	0.00	88.31	TD

**Casing Points**

MD ft	TVD ft	Diameter in	Hole Size in	Name
520.00	520.00	13.375	17.500	13 3/8" Surf Csg
3015.76	2800.00	9.625	12.250	9 5/8" Csg

**Formations**

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1126.43	1111.00	Green River		0.00	0.00
4364.94	4021.00	Wasatch Tongue		0.00	0.00
4700.29	4351.00	Green River Tongue		0.00	0.00
4860.48	4511.00	Wasatch		0.00	0.00
5760.48	5411.00	Chapita Wells		0.00	0.00
6960.48	6611.00	Uteland Buttes		0.00	0.00
8060.48	7711.00	Mesaverde		0.00	0.00

# Ryan Energy

## Ryan Planing Full

**Company:** Dominion Exploration & Product  
**Field:** Uintah County, Utah  
**Site:** RBU #16-20F  
**Well:** RBU #16-20F  
**Wellpath:** OH

**Date:** 10/22/2003 **Time:** 12:23:28 **Page:** 2  
**Co-ordinate(NE) Reference:** Site: RBU #16-20F, Grid North  
**Vertical (TVD) Reference:** est. RKB 5158.0  
**Section (VS) Reference:** Well (0.00N,0.00E,88.31Azi)  
**Survey Calculation Method:** Minimum Curvature **Db:** Sybase

### Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
Green River			1111.00	3.37	114.38	585749.89	2508491.95	39	55	38.580	N	109	41	12.031	W
-Plan hit target															
Wasatch Tongue			4021.00	45.11	1529.10	585791.63	2509906.67	39	55	38.709	N	109	40	53.863	W
-Plan hit target															
Green River Tongue			4351.00	46.80	1586.29	585793.32	2509963.86	39	55	38.714	N	109	40	53.129	W
-Plan hit target															
Wasatch			4511.00	47.00	1593.00	585793.52	2509970.57	39	55	38.715	N	109	40	53.043	W
-Plan hit target															
Chapita Wells			5411.00	47.00	1593.00	585793.52	2509970.57	39	55	38.715	N	109	40	53.043	W
-Plan hit target															
Uteland Buttes			6611.00	47.00	1593.00	585793.52	2509970.57	39	55	38.715	N	109	40	53.043	W
-Plan hit target															
Mesaverde			7711.00	47.00	1593.00	585793.52	2509970.57	39	55	38.715	N	109	40	53.043	W
-Plan hit target															
TD			8000.00	47.00	1593.00	585793.52	2509970.57	39	55	38.715	N	109	40	53.043	W
-Plan hit target															

### Survey

MD ft	Incl deg	Azim deg	TVD ft	Subsea ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	MapN ft	MapE ft
0.00	0.00	88.31	0.00	-5158.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
100.00	0.00	88.31	100.00	-5058.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
200.00	0.00	88.31	200.00	-4958.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
300.00	0.00	88.31	300.00	-4858.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
400.00	0.00	88.31	400.00	-4758.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
500.00	0.00	88.31	500.00	-4658.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
520.00	0.00	88.31	520.00	-4638.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
550.00	0.00	88.31	550.00	-4608.00	0.00	0.00	0.00	0.00	0.00	0.00	585746.52	2508377.57
600.00	2.00	88.31	599.99	-4558.01	0.87	0.03	0.87	4.00	4.00	0.00	585746.55	2508378.44
700.00	6.00	88.31	699.73	-4458.27	7.85	0.23	7.84	4.00	4.00	0.00	585746.75	2508385.41
800.00	10.00	88.31	798.73	-4359.27	21.76	0.64	21.75	4.00	4.00	0.00	585747.16	2508399.32
900.00	14.00	88.31	896.53	-4261.47	42.55	1.25	42.53	4.00	4.00	0.00	585747.78	2508420.10
1000.00	18.00	88.31	992.63	-4165.37	70.11	2.07	70.08	4.00	4.00	0.00	585748.59	2508447.64
1100.00	22.00	88.31	1086.58	-4071.42	104.30	3.08	104.26	4.00	4.00	0.00	585749.60	2508481.82
1126.43	23.06	88.31	1111.00	-4047.00	114.43	3.37	114.38	4.00	4.00	0.00	585749.90	2508491.95
1200.00	26.00	88.31	1177.92	-3980.08	144.97	4.28	144.90	4.00	4.00	0.00	585750.80	2508522.47
1217.70	26.71	88.31	1193.78	-3964.22	152.82	4.51	152.76	4.00	4.00	0.00	585751.03	2508530.32
1300.00	26.71	88.31	1267.30	-3890.70	189.81	5.60	189.73	0.00	0.00	0.00	585752.12	2508567.30
1400.00	26.71	88.31	1356.63	-3801.37	234.76	6.92	234.66	0.00	0.00	0.00	585753.44	2508612.22
1500.00	26.71	88.31	1445.96	-3712.04	279.70	8.25	279.58	0.00	0.00	0.00	585754.77	2508657.15
1600.00	26.71	88.31	1535.29	-3622.71	324.65	9.57	324.51	0.00	0.00	0.00	585756.10	2508702.07
1700.00	26.71	88.31	1624.62	-3533.38	369.59	10.90	369.43	0.00	0.00	0.00	585757.42	2508747.00
1800.00	26.71	88.31	1713.95	-3444.05	414.54	12.23	414.36	0.00	0.00	0.00	585758.75	2508791.92
1900.00	26.71	88.31	1803.28	-3354.72	459.48	13.55	459.28	0.00	0.00	0.00	585760.07	2508836.85
2000.00	26.71	88.31	1892.62	-3265.38	504.42	14.88	504.21	0.00	0.00	0.00	585761.40	2508881.77
2100.00	26.71	88.31	1981.95	-3176.05	549.37	16.20	549.13	0.00	0.00	0.00	585762.72	2508926.70
2200.00	26.71	88.31	2071.28	-3086.72	594.31	17.53	594.06	0.00	0.00	0.00	585764.05	2508971.62
2300.00	26.71	88.31	2160.61	-2997.39	639.26	18.85	638.98	0.00	0.00	0.00	585765.37	2509016.55
2400.00	26.71	88.31	2249.94	-2908.06	684.20	20.18	683.90	0.00	0.00	0.00	585766.70	2509061.47
2500.00	26.71	88.31	2339.27	-2818.73	729.15	21.50	728.83	0.00	0.00	0.00	585768.03	2509106.40
2600.00	26.71	88.31	2428.60	-2729.40	774.09	22.83	773.75	0.00	0.00	0.00	585769.35	2509151.32
2700.00	26.71	88.31	2517.93	-2640.07	819.04	24.15	818.68	0.00	0.00	0.00	585770.68	2509196.25
2800.00	26.71	88.31	2607.26	-2550.74	863.98	25.48	863.60	0.00	0.00	0.00	585772.00	2509241.17
2900.00	26.71	88.31	2696.59	-2461.41	908.92	26.81	908.53	0.00	0.00	0.00	585773.33	2509286.10
3000.00	26.71	88.31	2785.92	-2372.08	953.87	28.13	953.45	0.00	0.00	0.00	585774.65	2509331.02

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# Ryan Energy

## Ryan Planing Full

**Company:** Dominion Exploration & Product  
**Field:** Uintah County, Utah  
**Site:** RBU #16-20F  
**Well:** RBU #16-20F  
**Wellpath:** OH

**Date:** 10/22/2003 **Time:** 12:23:28 **Page:** 3  
**Co-ordinate(NE) Reference:** Site: RBU #16-20F, Grid North  
**Vertical (TVD) Reference:** est. RKB 5158.0  
**Section (VS) Reference:** Well (0.00N,0.00E,88.31Azi)  
**Survey Calculation Method:** Minimum Curvature **Db:** Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	Subsea ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	MapN ft	MapE ft
3015.76	26.71	88.31	2800.00	-2358.00	960.95	28.34	960.53	0.00	0.00	0.00	585774.86	2509338.10
3100.00	26.71	88.31	2875.25	-2282.75	998.81	29.46	998.38	0.00	0.00	0.00	585775.98	2509375.95
3200.00	26.71	88.31	2964.59	-2193.41	1043.76	30.78	1043.30	0.00	0.00	0.00	585777.30	2509420.87
3300.00	26.71	88.31	3053.92	-2104.08	1088.70	32.11	1088.23	0.00	0.00	0.00	585778.63	2509465.80
3400.00	26.71	88.31	3143.25	-2014.75	1133.65	33.43	1133.15	0.00	0.00	0.00	585779.95	2509510.72
3500.00	26.71	88.31	3232.58	-1925.42	1178.59	34.76	1178.08	0.00	0.00	0.00	585781.28	2509555.65
3600.00	26.71	88.31	3321.91	-1836.09	1223.54	36.08	1223.00	0.00	0.00	0.00	585782.61	2509600.57
3700.00	26.71	88.31	3411.24	-1746.76	1268.48	37.41	1267.93	0.00	0.00	0.00	585783.93	2509645.50
3800.00	26.71	88.31	3500.57	-1657.43	1313.43	38.73	1312.85	0.00	0.00	0.00	585785.26	2509690.42
3900.00	26.71	88.31	3589.90	-1568.10	1358.37	40.06	1357.78	0.00	0.00	0.00	585786.58	2509735.35
3970.21	26.71	88.31	3652.62	-1505.38	1389.93	40.99	1389.32	0.00	0.00	0.00	585787.51	2509766.89
4000.00	25.81	88.31	3679.34	-1478.66	1403.11	41.38	1402.50	3.00	-3.00	0.00	585787.90	2509780.06
4100.00	22.81	88.31	3770.45	-1387.55	1444.28	42.59	1443.65	3.00	-3.00	0.00	585789.12	2509821.21
4200.00	19.81	88.31	3863.60	-1294.40	1480.62	43.67	1479.98	3.00	-3.00	0.00	585790.19	2509857.54
4300.00	16.81	88.31	3958.53	-1199.47	1512.04	44.59	1511.38	3.00	-3.00	0.00	585791.11	2509888.95
4364.94	14.87	88.31	4021.00	-1137.00	1529.77	45.11	1529.10	3.00	-3.00	0.00	585791.64	2509906.67
4400.00	13.81	88.31	4054.97	-1103.03	1538.45	45.37	1537.78	3.00	-3.00	0.00	585791.89	2509915.35
4500.00	10.81	88.31	4152.65	-1005.35	1559.77	46.00	1559.10	3.00	-3.00	0.00	585792.52	2509936.66
4600.00	7.81	88.31	4251.32	-906.68	1575.96	46.48	1575.27	3.00	-3.00	0.00	585793.00	2509952.84
4700.00	4.81	88.31	4350.71	-807.29	1586.95	46.80	1586.26	3.00	-3.00	0.00	585793.32	2509963.83
4700.29	4.81	88.31	4351.00	-807.00	1586.98	46.80	1586.29	3.00	-3.00	0.00	585793.32	2509963.86
4800.00	1.81	88.31	4450.53	-707.47	1592.74	46.97	1592.04	3.00	-3.00	0.00	585793.49	2509969.61
4860.48	0.00	88.31	4511.00	-647.00	1593.69	47.00	1593.00	3.00	-3.00	0.00	585793.52	2509970.57
4900.00	0.00	88.31	4550.52	-607.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5000.00	0.00	88.31	4650.52	-507.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5100.00	0.00	88.31	4750.52	-407.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5200.00	0.00	88.31	4850.52	-307.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5300.00	0.00	88.31	4950.52	-207.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5400.00	0.00	88.31	5050.52	-107.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5500.00	0.00	88.31	5150.52	-7.48	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5600.00	0.00	88.31	5250.52	92.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5700.00	0.00	88.31	5350.52	192.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5760.48	0.00	88.31	5411.00	253.00	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5800.00	0.00	88.31	5450.52	292.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
5900.00	0.00	88.31	5550.52	392.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6000.00	0.00	88.31	5650.52	492.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6100.00	0.00	88.31	5750.52	592.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6200.00	0.00	88.31	5850.52	692.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6300.00	0.00	88.31	5950.52	792.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6400.00	0.00	88.31	6050.52	892.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6500.00	0.00	88.31	6150.52	992.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6600.00	0.00	88.31	6250.52	1092.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6700.00	0.00	88.31	6350.52	1192.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6800.00	0.00	88.31	6450.52	1292.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6900.00	0.00	88.31	6550.52	1392.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
6960.48	0.00	88.31	6611.00	1453.00	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7000.00	0.00	88.31	6650.52	1492.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7100.00	0.00	88.31	6750.52	1592.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7200.00	0.00	88.31	6850.52	1692.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7300.00	0.00	88.31	6950.52	1792.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7400.00	0.00	88.31	7050.52	1892.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7500.00	0.00	88.31	7150.52	1992.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57

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# Ryan Energy

## Ryan Planing Full

**Company:** Dominion Exploration & Product  
**Field:** Uintah County, Utah  
**Site:** RBU #16-20F  
**Well:** RBU #16-20F  
**Wellpath:** OH

**Date:** 10/22/2003      **Time:** 12:23:28      **Page:** 4  
**Co-ordinate(NE) Reference:** Site: RBU #16-20F, Grid North  
**Vertical (TVD) Reference:** est. RKB 5158.0  
**Section (VS) Reference:** Well (0.00N,0.00E,88.31Azi)  
**Survey Calculation Method:** Minimum Curvature      **Db:** Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	Subsea ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	MapN ft	MapE ft
7600.00	0.00	88.31	7250.52	2092.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7700.00	0.00	88.31	7350.52	2192.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7800.00	0.00	88.31	7450.52	2292.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
7900.00	0.00	88.31	7550.52	2392.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
8000.00	0.00	88.31	7650.52	2492.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
8060.48	0.00	88.31	7711.00	2553.00	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
8100.00	0.00	88.31	7750.52	2592.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
8200.00	0.00	88.31	7850.52	2692.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
8300.00	0.00	88.31	7950.52	2792.52	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57
8349.48	0.00	88.31	8000.00	2842.00	1593.69	47.00	1593.00	0.00	0.00	0.00	585793.52	2509970.57

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## SURFACE USE PLAN

### CONDITIONS OF APPROVAL

#### *Attachment for Permit to Drill*

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** RBU 16-20F  
SHL: 703' FSL & 2143' FEL Section 20-10S-20E  
BHL: 750' FSL & 550' FEL Section 20-10S-20E  
Uintah County, UT

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

The onsite inspection for the referenced well was conducted on Wednesday, December 17, 2003

1. Existing Roads:
  - a. The proposed well site is located approximately 11.12 miles south of Ouray, UT.
  - b. Directions to the proposed well site have been attached at the end of Exhibit B.
  - c. The use of roads under State and County Road Department maintenance is necessary to access the River Bend Unit. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
  - d. All existing roads will be maintained and kept in good repair during all phases of operation.
  - e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
  - f. Since no improvements are anticipated to the State, County or BLM access roads no topsoil striping will occur.
  - g. An off-lease federal Right-of-Way is not anticipated for the access road or utility corridor since both are located within the existing federal unit boundary and existing at this time.

2. Planned Access Roads:

- a. No new access is proposed with this application since the proposed well utilizes the existing RBU 15-20F pad.

3. Location of Existing Wells:

- a. Following is a list of existing wells within a one mile radius of the proposed well:

i. Water wells	1
ii. Injection wells	None
iii. Disposal wells	None
iv. Drilling wells	None
v. Temp. shut-in wells	1
vi. Producing wells	19
vii. Abandon wells	None

- b. Exhibit B is a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Desert Brown to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. Dominion Exploration and Production, Inc. requests permission through the APD approval process to upgrade the existing 3" steel surface line to a 4" steel surface line from the existing well site referenced in the APD to the existing 4" trunk line near the existing RBU 9-20F.

- i. The upgraded gas pipeline will be a 4" steel surface line within a 20' wide utility corridor. The use of existing roads along the pipeline will facilitate the staging of the pipeline construction. A pipeline upgrade length of 1,900' is associated with this well.
- j. Dominion intends on installing the pipeline on the surface by welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. Dominion intends on connecting the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. The location and type of water supply has been addressed as number 11 within the previous drilling plan information.

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from BLM.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the southwest side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 12 mil minimum thickness plastic nylon reinforced liner material overlaying a felt liner pad. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved Dominion disposal well for disposal.
- k. After first production, produced wastewater will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, an application for approval of a permanent disposal method and location will be applied for in accordance with Onshore Order #7.
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the east.
- c. The pad and road designs are consistent with BLM specification
- d. A pre-construction meeting with a responsible company representative, contractors, and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size, however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from

entering the well site area.

- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- l. The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface:

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.
- c. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.
- d. Prior to reseeding the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix is as follows:

Shads Scale	4 pounds per acre
Matt Salt Brush	5 pounds per acre
Galletta Grass	3 pounds per acre

11. Surface and Mineral Ownership:

- a. Surface Ownership – Ute Indian Tribe under the management of the Bureau of Indian Affairs – Uintah and Ouray Agency, P.O. Box 130, 988 South 7500 East, Ft. Duchesne, Utah 84026
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

- a. AIA Archaeological has conducted a Class III archeological survey for the proposed RBU 16-20F. A copy of the report has been submitted under separate cover to the appropriate agencies by AIA Archaeological.
- b. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.

- b. No significant nesting raptors species are anticipated in the area since suitable nesting habitat does not exist.
- c. No drainage crossings that require additional State or Federal approval are being crossed.

13. Operator's Representative and Certification

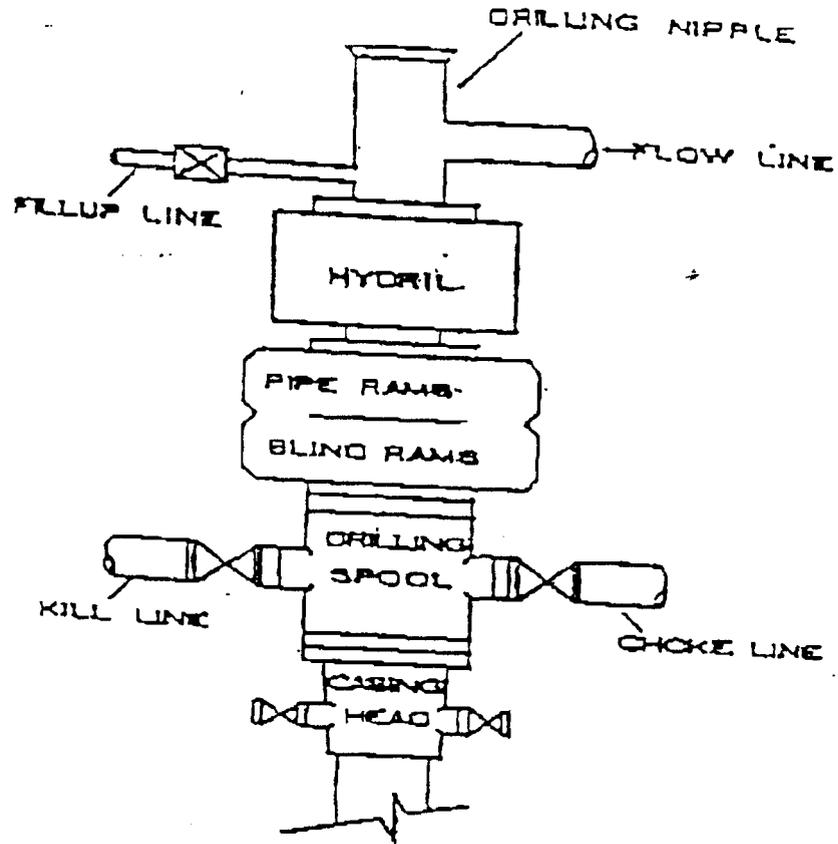
<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Roosevelt)	Mitchiel Hall	1-435-722-4521
Company Representative (Oklahoma)	Carla Christian	1-405-749-5263
Agent for Dominion	Don Hamilton	1-435-637-4075

Certification:

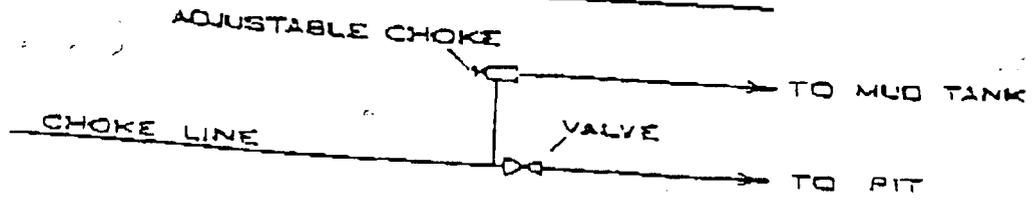
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exists; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Dominion Exploration & Production, Inc. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Dominion's BLM bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: Don Hamilton Date: 2-2-04

# BOP STACK



# CHOKE MANIFOLD



# DOMINION EXPLR. & PROD., INC.

## LOCATION LAYOUT FOR

RBU #16-20F

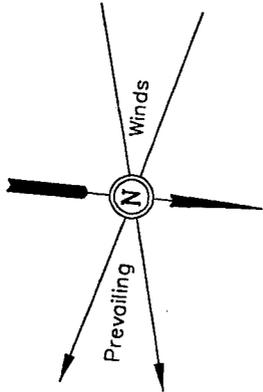
SECTION 20, T10S, R20E, S.L.B.&M.

703' FSL 2143' FEL

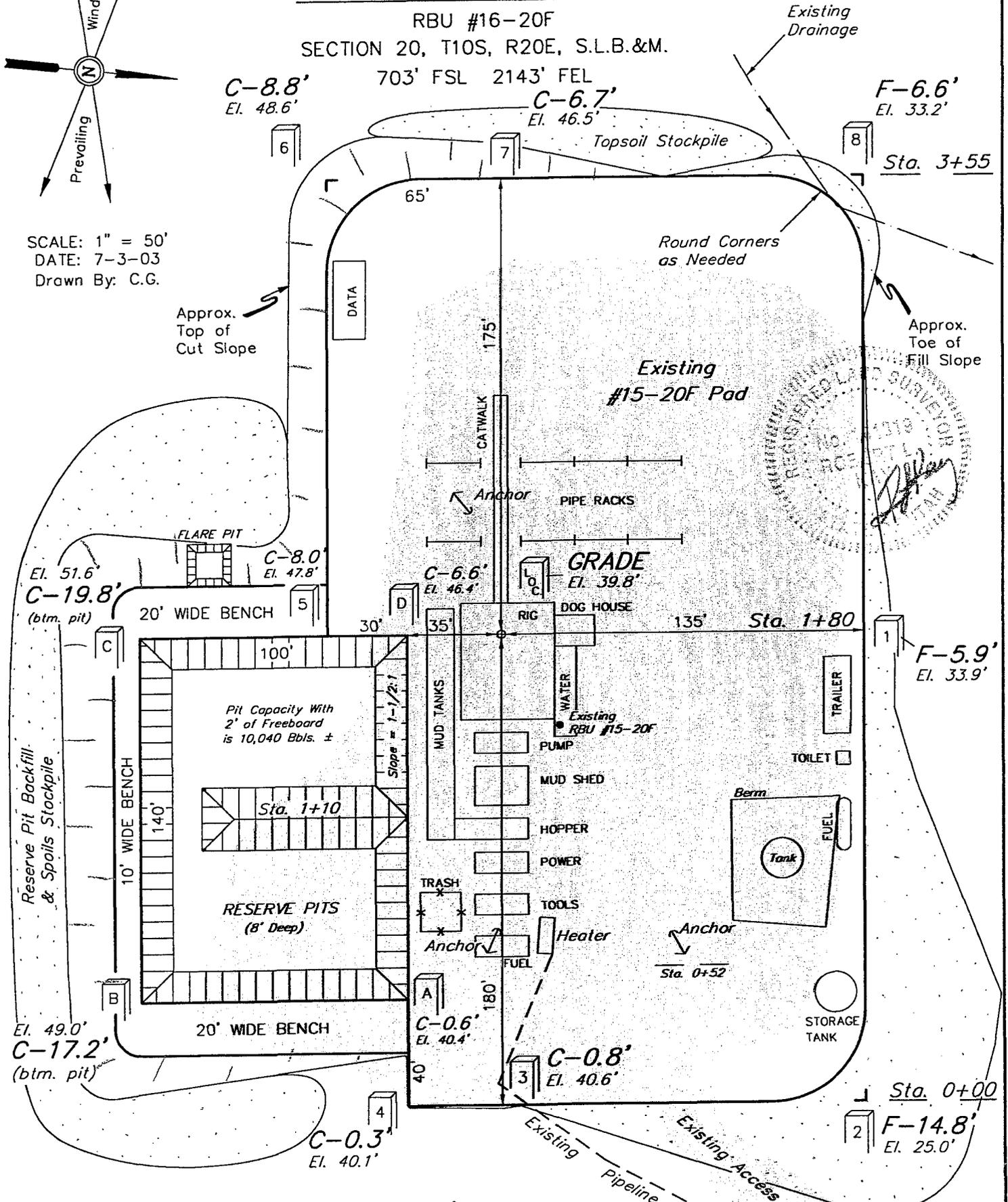
C-8.8'  
El. 48.6'

C-6.7'  
El. 46.5'

F-6.6'  
El. 33.2'



SCALE: 1" = 50'  
DATE: 7-3-03  
Drawn By: C.G.



Elev. Ungraded Ground at Location Stake = 5139.8'  
Elev. Graded Ground at Location Stake = 5139.8'

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

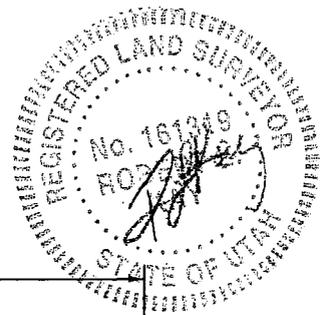
DOMINION EXPLR. & PROD., INC.

TYPICAL CROSS SECTIONS FOR

RBU #16-20F

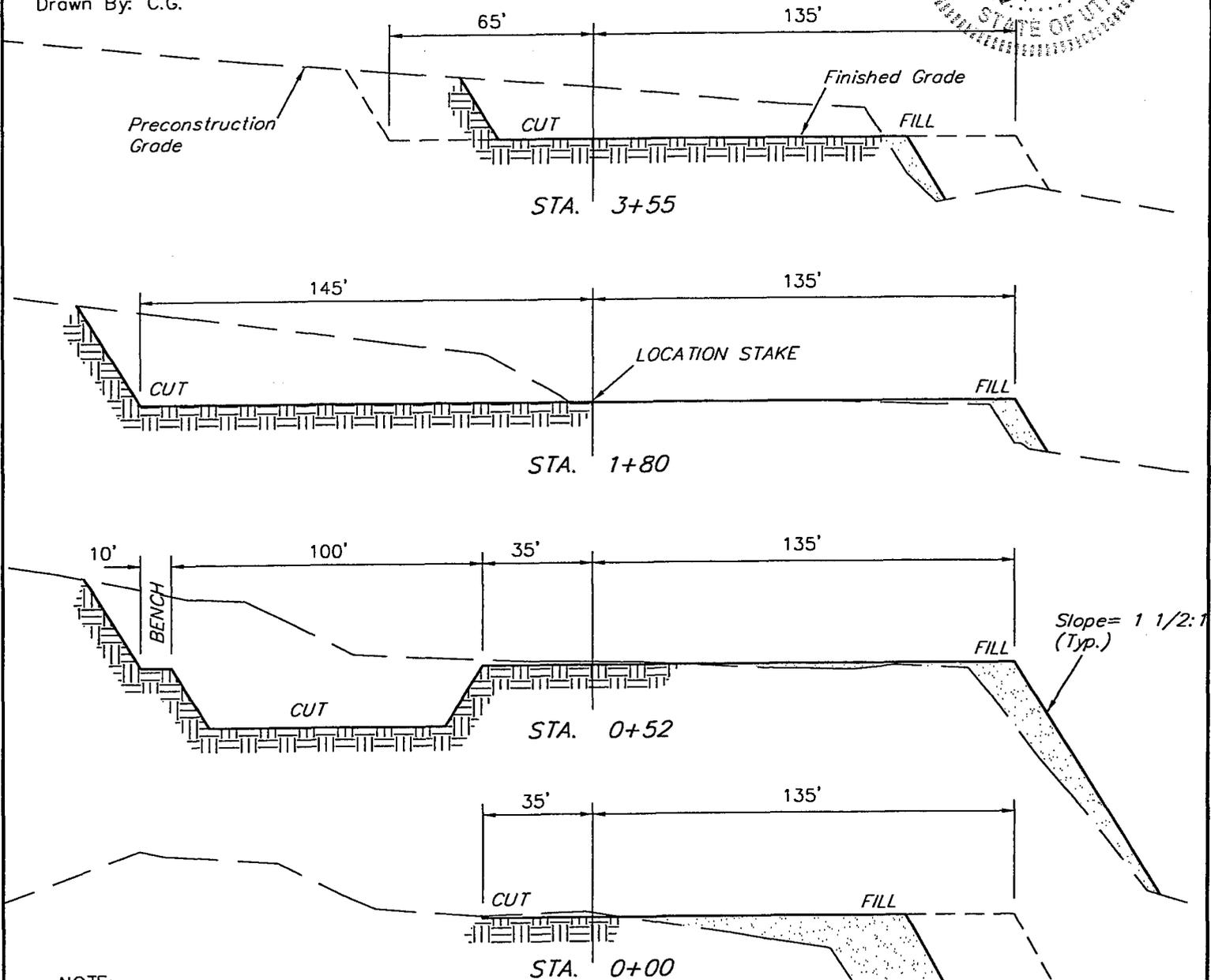
SECTION 20, T10S, R20E, S.L.B.&M.

703' FSL 2143' FEL



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

DATE: 7-3-03  
Drawn By: C.G.



NOTE:

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

APPROXIMATE YARDAGES

CUT

(12") Topsoil Stripping	= 990 Cu. Yds.
Remaining Location	= 12,820 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 13,810 CU.YDS.</b>
<b>FILL</b>	<b>= 3,260 CU.YDS.</b>

EXCESS MATERIAL AFTER

5% COMPACTION	= 10,380 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,520 Cu. Yds.
<b>EXCESS UNBALANCE (After Rehabilitation)</b>	<b>= 7,860 Cu. Yds.</b>

# DOMINION EXPLR. & PROD., INC.

RBU #16-20F  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 20, T10S, R20E, S.L.B.&M.

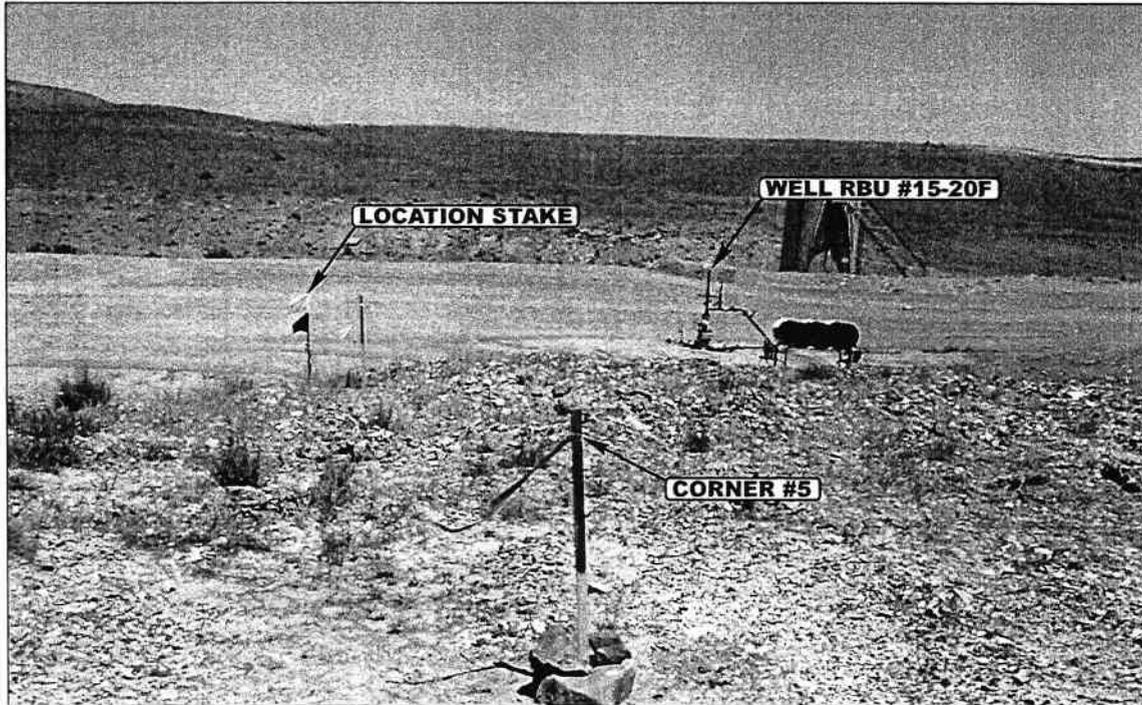


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

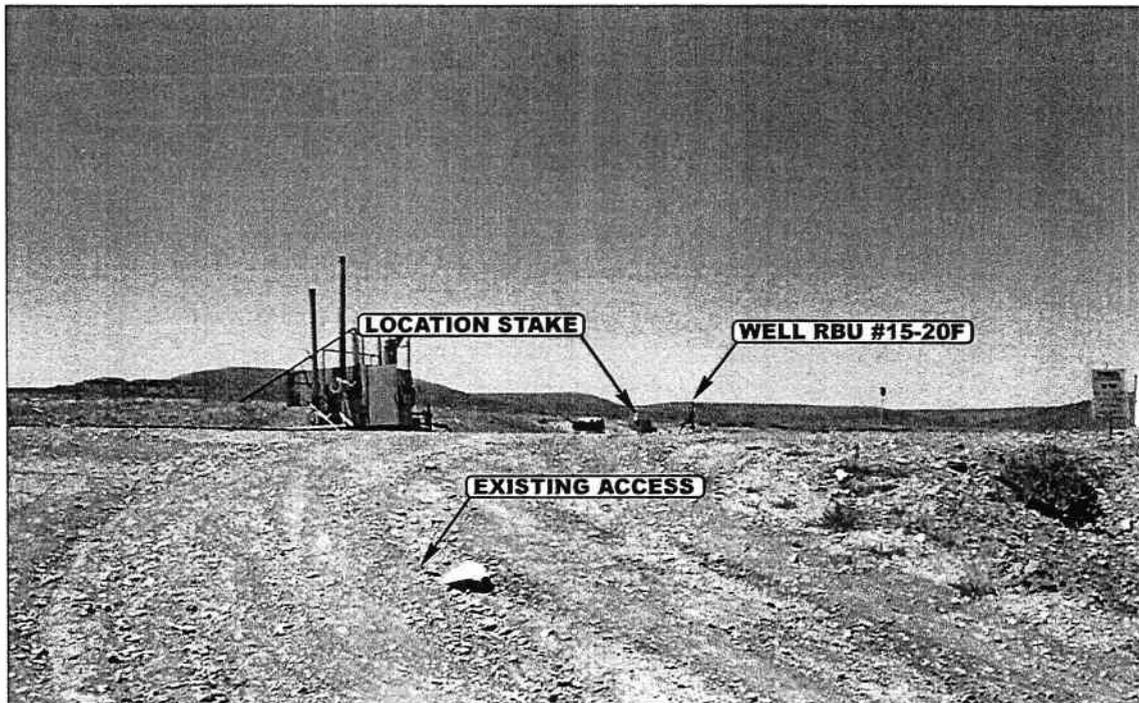


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHWESTERLY

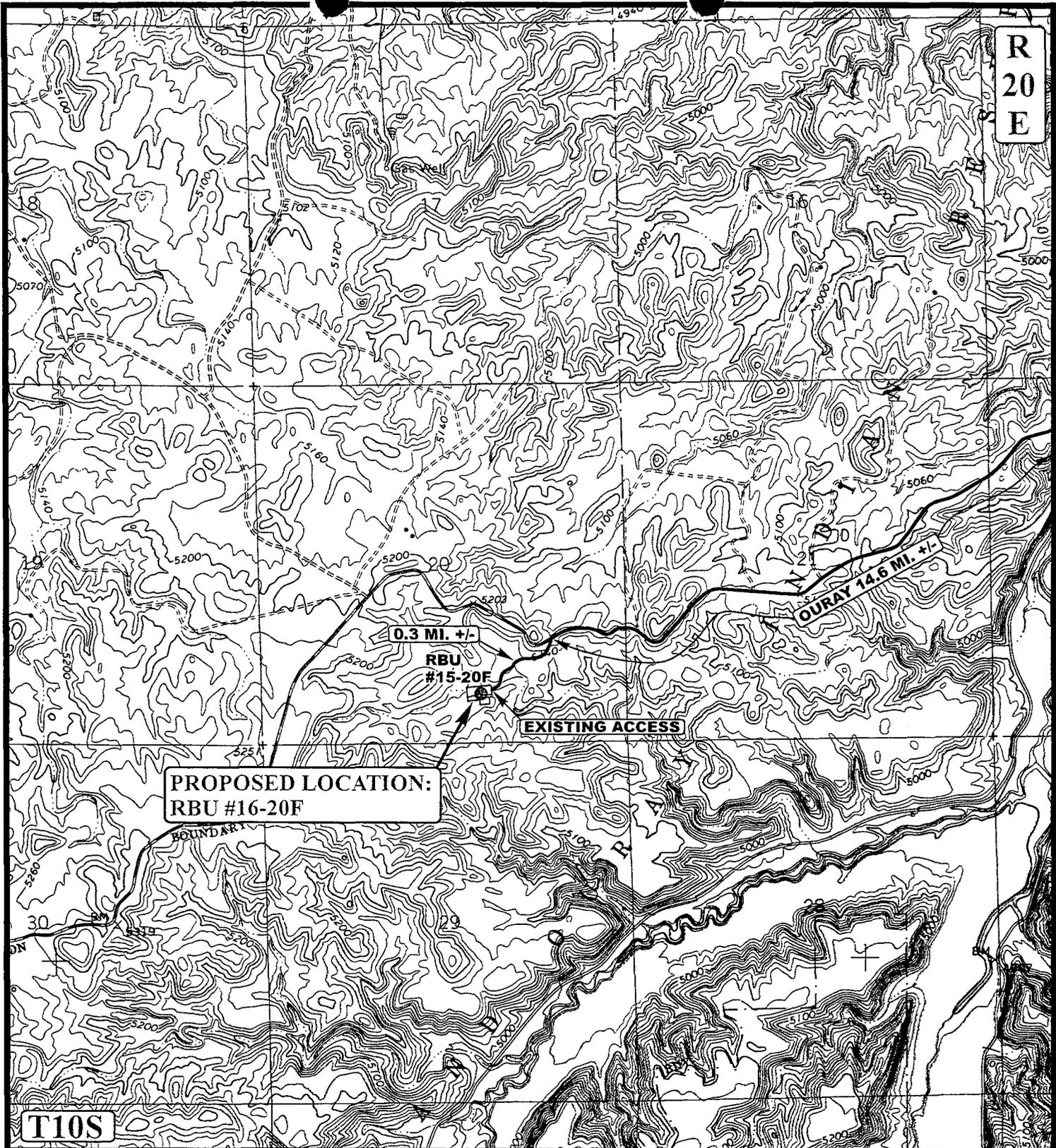


**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	07	08	03	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: S.H.	DRAWN BY: P.M.		REVISED: 00-00-00	



R  
20  
E



**PROPOSED LOCATION:  
RBU #16-20F**

**0.3 MI. +/-  
RBU  
#15-20F**

**OURAY 14.6 MI. +/-**

**EXISTING ACCESS**

**T10S**

**LEGEND:**

————— EXISTING ROAD

**DOMINION EXPLR. & PROD., INC.**

**RBU #16-20F  
SECTION 20, T10S, R20E, S.L.B.&M.  
703' FSL 2143' FEL**



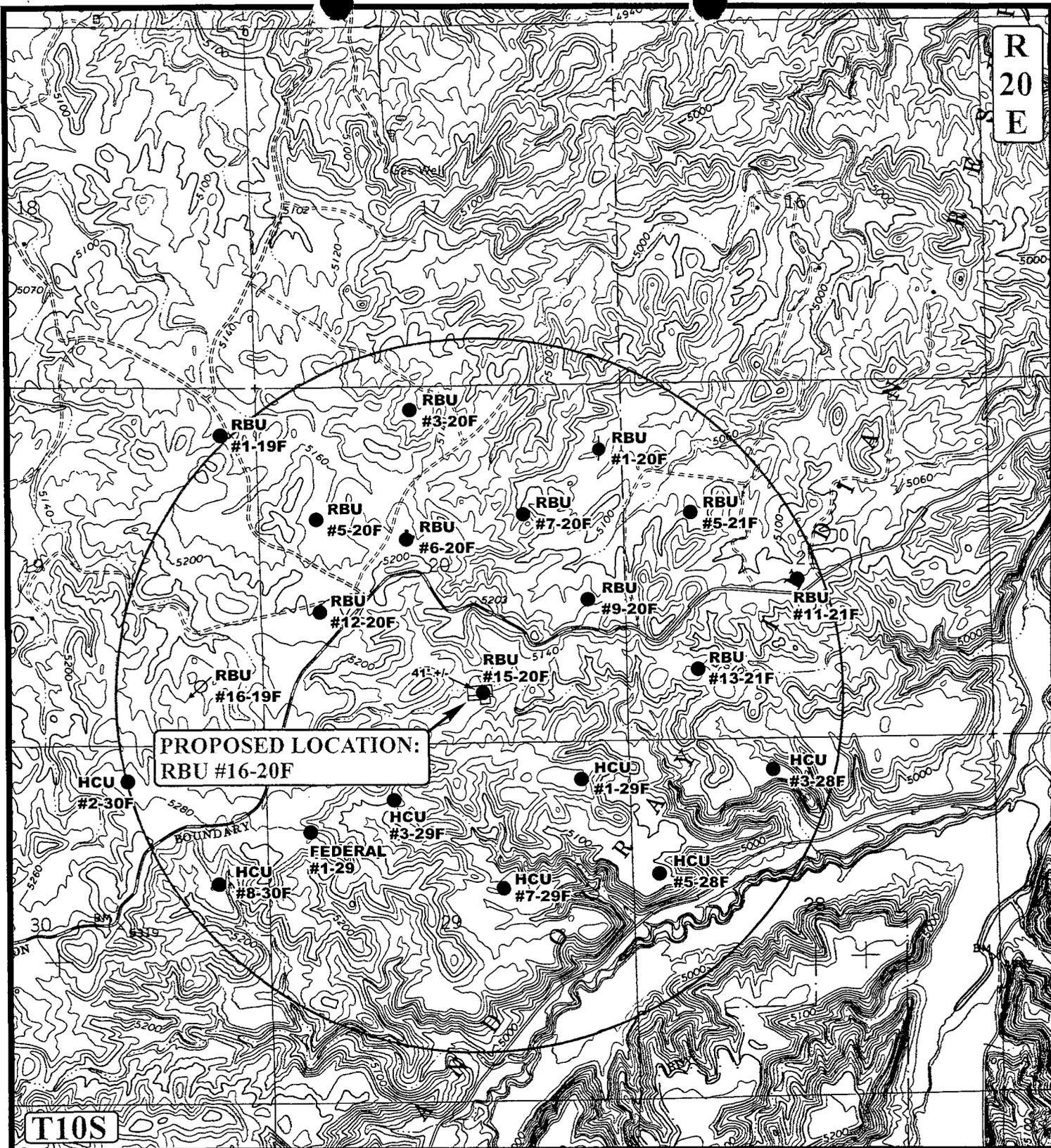
**Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813**



**TOPOGRAPHIC 07 08 03  
MAP MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00**



R  
20  
E



T10S

**LEGEND:**

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

**DOMINION EXPLR. & PROD., INC.**

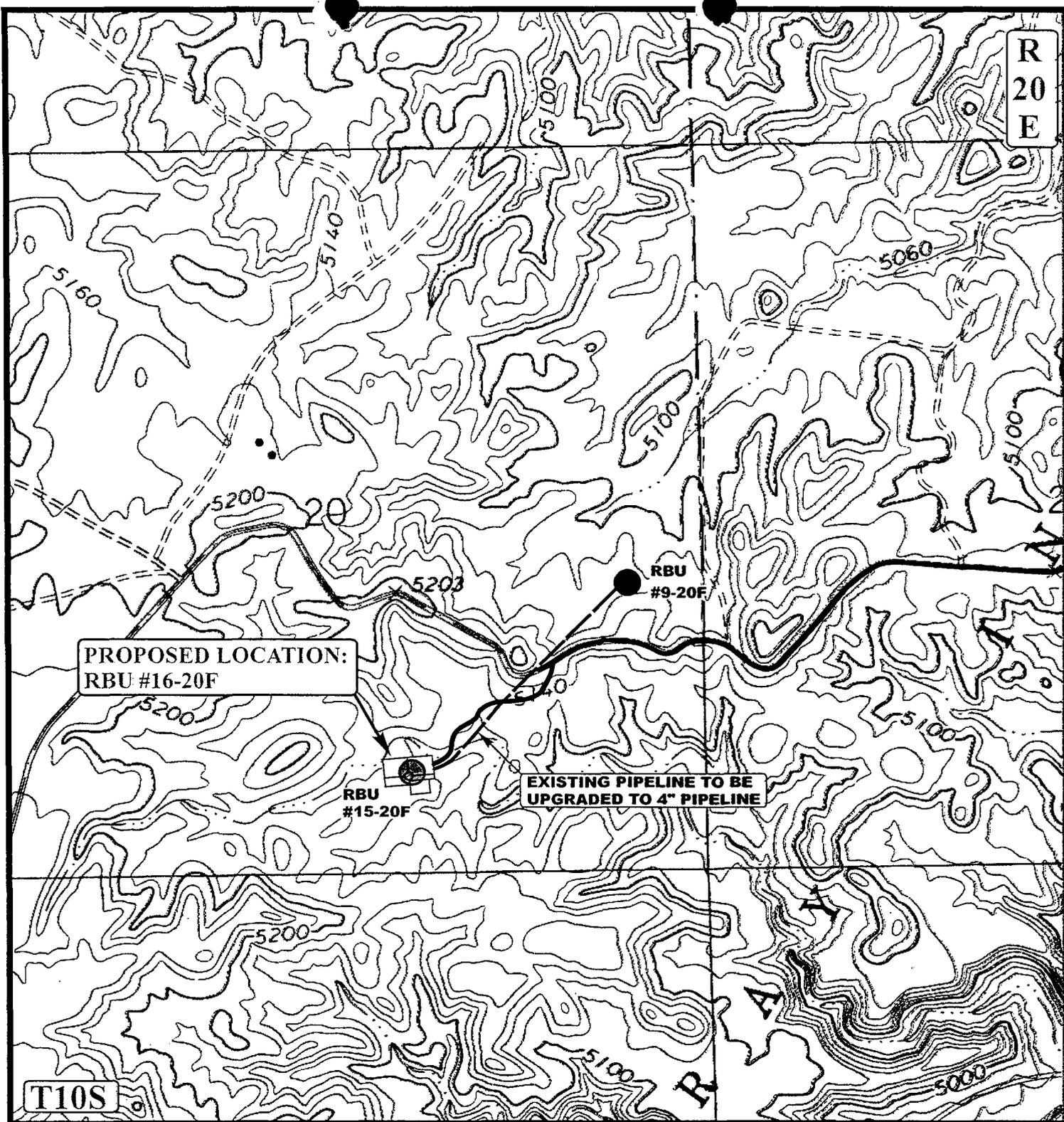
RBU #16-20F  
 SECTION 20, T10S, R20E, S.L.B.&M.  
 703' FSL 2143' FEL

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



TOPOGRAPHIC MAP 07 08 03  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE TO BE UPGRADED = 1,900' +/-

**LEGEND:**

----- EXISTING PIPELINE



**DOMINION EXPLR. & PROD., INC.**

RBU #16-20F  
SECTION 20, T10S, R20E, S.L.B.&M.  
703' FSL 2143' FEL



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

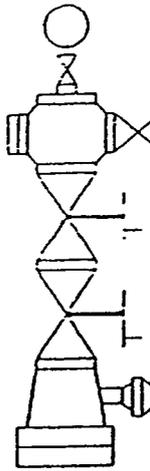
TOPOGRAPHIC MAP 07 08 03  
MONTH DAY YEAR  
SCALE: 1" = 1000' DRAWN BY: P.M. REVISED: 00-00-00



CONFIDENTIAL

LEGEND

- O = Oil Line
- G = Gas Line
- W = Water Line
- R = Relief Line (Pressure)
- C = Condensate Line
- V = Vent Line
- D = Drain Line
- M = Gas Meter
- P = Pump
- BP = Back Pressure Valve
- SWS = Sealed When Shipping
- SUS = Sealed Unless Shipping
- T = Heat Traced Line
- H = Heater
- BL = Buried Line
- ⊗ = Valve
- ⊏ = Check Valve
- SC = Sealed Closed Valve
- NC = Normally Closed
- BD = Blowdown Line



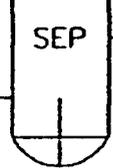
WELLHEAD (typ)

BL, G, C, W  
(± 100')

BD, BL

PIT  
30' x 30'  
(typ)

W, BL

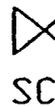


±100'

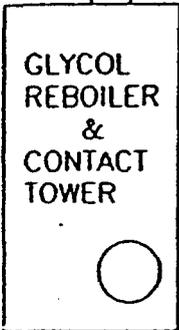
Relief

300 bbl Tank  
(condensate)

BL, C



SUS



GAS SALES LINE

The site security plan is on file in DEPI's district office located at 1400 N. State St., Roosevelt, Utah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

DOMINION EXPLORATION & PRODUCTION, INC.

ell:

not to scale

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/05/2004

API NO. ASSIGNED: 43-047-35467

WELL NAME: RBU 16-20F  
 OPERATOR: DOMINION EXPL & PROD ( N1095 )  
 CONTACT: DON HAMILTON

PHONE NUMBER: 435-650-1886

PROPOSED LOCATION:

SESE 20 100S 200E  
 SURFACE: 0142 FSL 0906 FEL  
 BOTTOM: 0750 FSL 0550 FEL  
 UINTAH  
 NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
<b>Tech Review</b>	<b>Initials</b>	<b>Date</b>
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: U-0143520A  
 SURFACE OWNER: 2 - Indian  
 PROPOSED FORMATION: MVRD  
 COALBED METHANE WELL? NO

LATITUDE: 39.92587  
 LONGITUDE: -109.6820

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. 76S630500330 )  
 Potash (Y/N)  
 Oil Shale 190-5 (B) or 190-3 or 190-13  
 Water Permit  
 (No. 43-10447 )  
 RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )  
 Fee Surf Agreement (Y/N)  
 Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.  
 Unit RIVER BEND  
 R649-3-2. General  
 Siting: 460 From Qtr/Qtr & 920' Between Wells  
 R649-3-3. Exception  
 Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_  
 R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

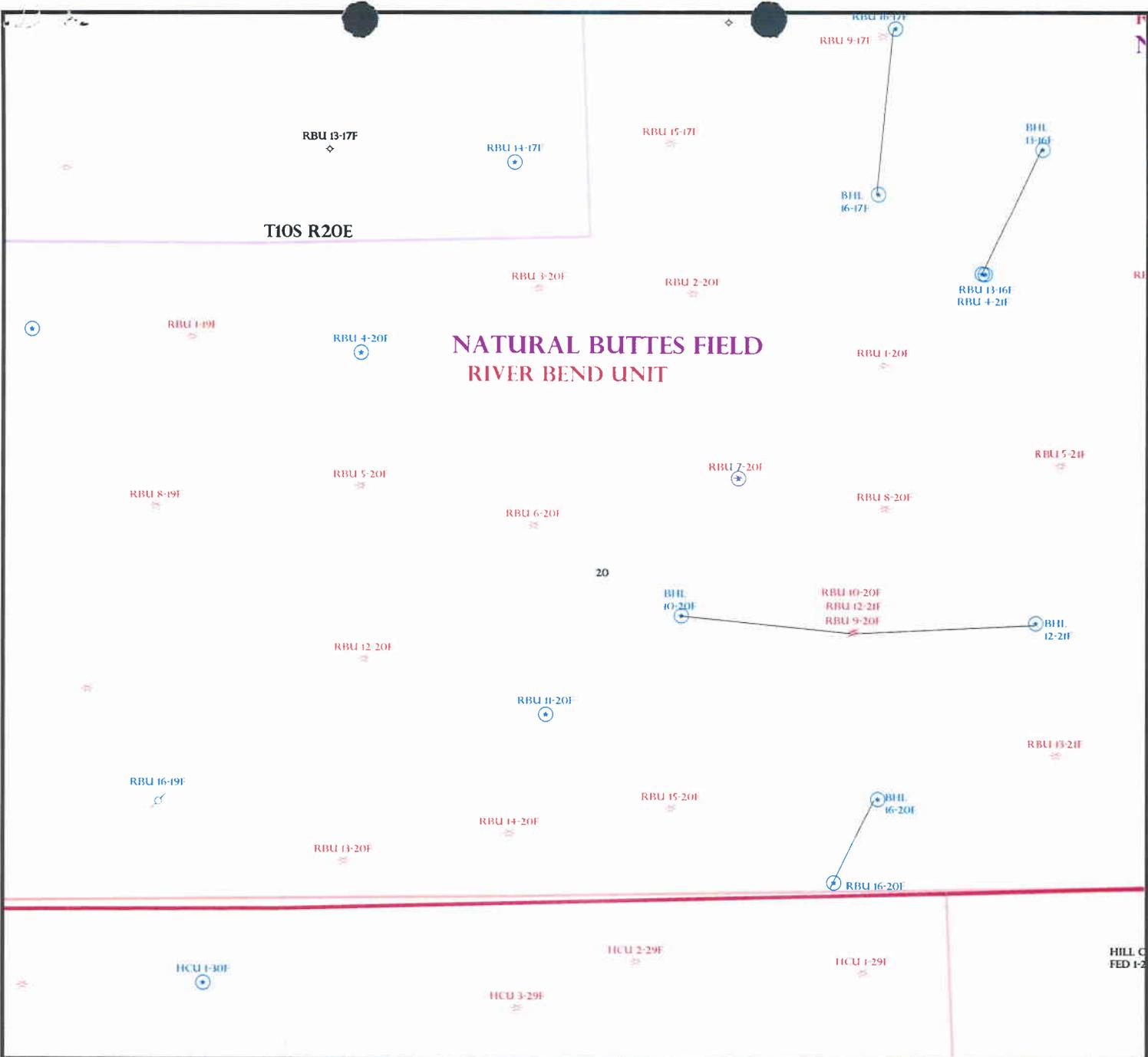
\_\_\_\_\_

\_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



OPERATOR: DOMINION EXPL & PROD (N1095)  
 SEC: 20 T. 10S R. 20E  
 FIELD: NATURAL BUTTES (630)  
 COUNTY: UINTAH  
 SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status	Unit Status
ABANDONED	EXPLORATORY
ACTIVE	GAS STORAGE
COMBINED	NF PP OIL
INACTIVE	NF SECONDARY
PROPOSED	PENDING
STORAGE	PI OIL
TERMINATED	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

**Wells Status**

	GAS INJECTION
	GAS STORAGE
	LOCATION ABANDONED
	NEW LOCATION
	PLUGGED & ABANDONED
	PRODUCING GAS
	PRODUCING OIL
	SHUT-IN GAS
	SHUT-IN OIL
	TEMP. ABANDONED
	TEST WELL
	WATER INJECTION
	WATER SUPPLY
	WATER DISPOSAL
	DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
 DATE: 28-DECEMBER-2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

004

APD RECEIVED: 02/05/2004

API NO. ASSIGNED: 43-047-35467

WELL NAME: RBW 16-20F

OPERATOR: DOMINION EXPL & PROD ( N1095 )

CONTACT: DON HAMILTON

PHONE NUMBER: 435-650-1886

PROPOSED LOCATION:

SWSE 20 100S 200E

SURFACE: 0703 FSL 2143 FEL

SESE BOTTOM: 0750 FSL 0550 FEL

UINTAH

NATURAL BUTTES ( 630 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: U-0143520A

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.92760

LONGITUDE: 109.68639

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 76S630500330 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10447 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

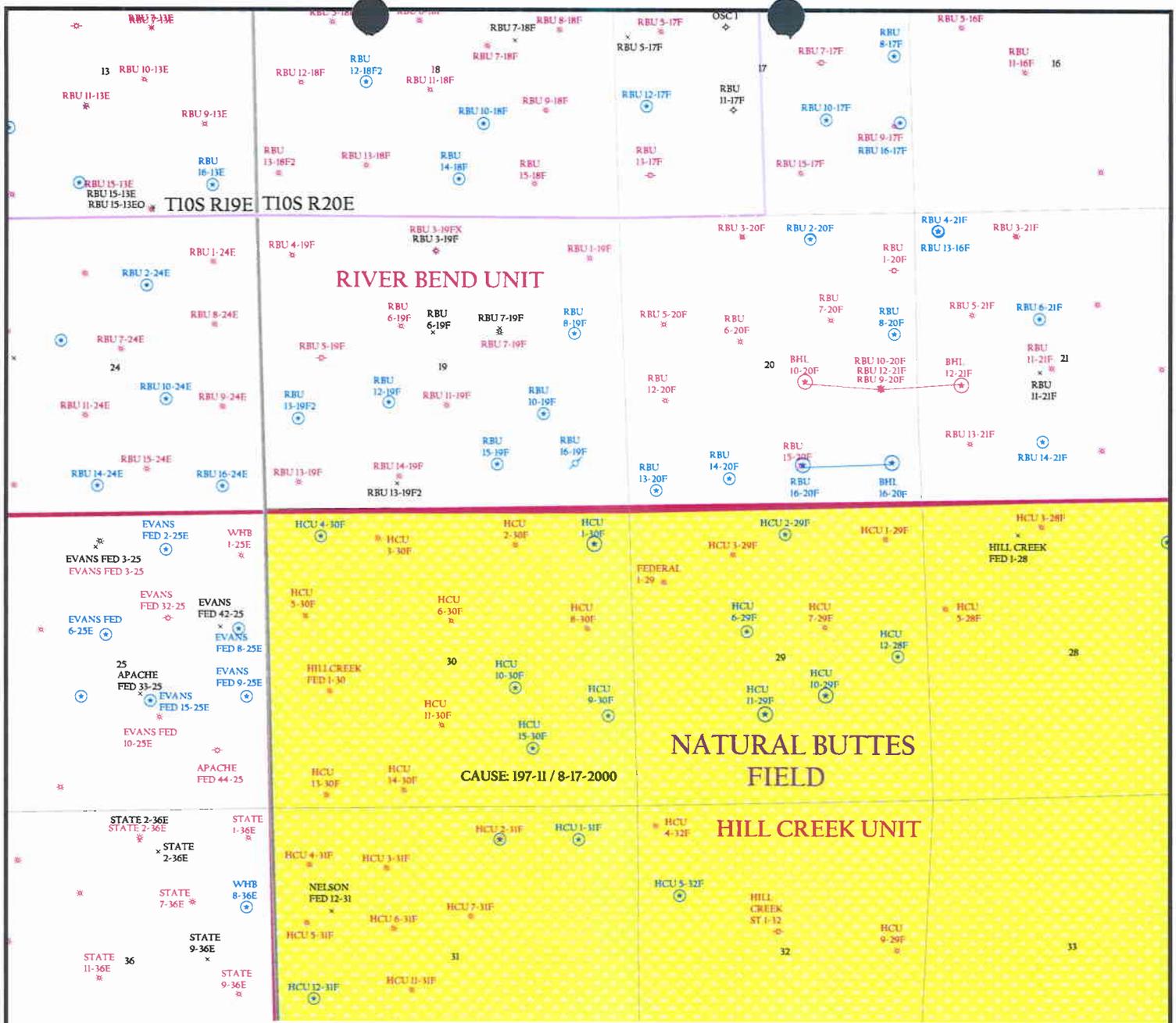
- \_\_\_ R649-2-3.
- Unit RIVER BEND
- \_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_ R649-3-3. Exception
- \_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

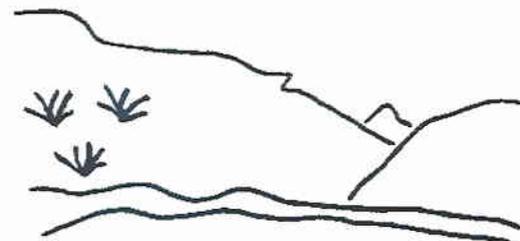
STIPULATIONS: 1- Federal Approval

2- Shaling Strip

3- OIL SHALE



**OPERATOR: DOMINION EXPL & PROD (N1095)**  
**SEC. 20 T.10S, R.20E**  
**FIELD: NATURAL BUTTES (630)**  
**COUNTY: UINTAH**  
**SPACING: R649-3-11 / DIRECTIONAL DRILLING**



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
 DATE: 9-FEBRUARY-2004

- |  |   |   |
|--|---|---|
| <b>Wells</b><br><ul style="list-style-type: none"> <li>• GAS INJECTION</li> <li>• GAS STORAGE</li> <li>• LOCATION ABANDONED</li> <li>• NEW LOCATION</li> <li>• PLUGGED &amp; ABANDONED</li> <li>• PRODUCING GAS</li> <li>• PRODUCING OIL</li> <li>• SHUT-IN GAS</li> <li>• SHUT-IN OIL</li> <li>• TEMP. ABANDONED</li> <li>• TEST WELL</li> <li>• WATER INJECTION</li> <li>• WATER SUPPLY</li> <li>• WATER DISPOSAL</li> </ul> | <b>Unit Status</b><br><ul style="list-style-type: none"> <li>□ EXPLORATORY</li> <li>□ GAS STORAGE</li> <li>□ NF PP OIL</li> <li>□ NF SECONDARY</li> <li>□ PENDING</li> <li>□ PI OIL</li> <li>□ PP GAS</li> <li>□ PP GEOTHERML</li> <li>□ PP OIL</li> <li>□ SECONDARY</li> <li>□ TERMINATED</li> </ul> | <b>Field Status</b><br><ul style="list-style-type: none"> <li>□ ABANDONED</li> <li>□ ACTIVE</li> <li>□ COMBINED</li> <li>□ INACTIVE</li> <li>□ PROPOSED</li> <li>□ STORAGE</li> <li>□ TERMINATED</li> </ul> |
|--|---|---|

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

3160

(UT-922)

February 10, 2004

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2004 Plan of Development River Bend Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2004 within the River Bend Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MesaVerde)		
43-047-35467	RBU 16-20F Sec 20	T10S R20E 0703 FSL 2143 FEL
	BHL Sec 20	T10S R20E 0750 FSL 0550 FEL
43-047-35468	RBU 15-22F Sec 22	T10S R20E 0812 FSL 1755 FEL
43-047-35469	RBU 11-23F Sec 23	T10S R20E 1533 FNL 1787 FWL
	BHL Sec 23	T10S R20E 2550 FSL 2050 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - River Bend Unit  
Division of Oil Gas and Mining  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:2-10-04

005



State of Utah

Department of  
Natural Resources

DIVISION of  
Oil, Gas & Mining

ROBERT L MORGAN  
*Executive Director*

LOWELL P BRAXTON  
*Division Director*

MICHAEL O LEAVITT  
*Governor*

OLENE S WALKER  
*Lieutenant Governor*

February 10, 2004

Dominion Exploration & Production, Inc  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

Re River Bend Unit 16-20F Well, Surface Location 703' FSL, 2143' FEL, SW SE, Sec 20, T 10 South, R 20 East, Bottom Location 750' FSL, 550' FEL, SE SE, Sec 20, T 10 South, R 20 East, Uintah County, Utah

Gentlemen

Pursuant to the provisions and requirements of Utah Code Ann § 40-6-1 *et seq*, Utah Administrative Code R649-3-1 *et seq*, and the attached Conditions of Approval, approval to drill the referenced well is granted

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35467

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

for

John R. Baza  
Associate Director

pab  
Enclosures

cc Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Dominion Exploration & Production, Inc.  
Well Name & Number River Bend Unit 16-20F  
API Number: 43-047-35467  
Lease: U-0143520A

Surface Location: SW SE                      Sec. 20                      T. 10 South                      R. 20 East  
Bottom Location: SE SE                      Sec. 20                      T. 10 South                      R. 20 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Page 2

Conditions of Approval API # 43-047-35467

February 10, 2004

7. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

006

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5 LEASE DESIGNATION AND SERIAL NO U-0143520A
b TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6 IF INDIAN ALLOTTEE OR TRIBE NAME Ute Indian Tribe
2 NAME OF OPERATOR Dominion Exploration & Production, Inc		7 UNIT AGREEMENT NAME River Bend Unit
3 ADDRESS AND TELEPHONE NO 14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263		8 FARM OR LEASE NAME WELL NO RBU 16-20F
4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements *) At surface 703' FSL, 2,143' FEL SW/4 SE/4 At proposed prod zone 750' FSL, 550' FEL SE/4 SE/4		9 API WELL NO 43-047-35467
14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11 12 miles south of Ouray, Utah FEB - 4 2004		10 FIELD AND POOL, OR WILDCAT Natural Buttes
15 DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE FT (Also to nearest drg unit line, if any) 703'	16 NO OF ACRES IN LEASE 640	11 SEC T R M OR BLK Section 20, T10S, R20E, SLB&M
18 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE FT 41'	19 PROPOSED DEPTH 8,000'	12 COUNTY OR PARISH Utah
21 ELEVATIONS (Show whether DF, RT, GR, etc) 5,140' GR	17 NO OF ACRES ASSIGNED TO THIS WELL 40 acres	13 STATE Utah
23 PROPOSED CASING AND CEMENTING PROGRAM		20 ROTARY OR CABLE TOOLS Rotary
22 APPROX. DATE WORK WILL START* July 15, 2004		

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48#	500'	450 sacks Class C cement + 2% CaCl <sub>2</sub> + 1/4 #/sk Poly-E-Flakes
12-1/4"	9-5/8" J-55 LT&C	36#	2 800'	300 sacks Lead and 390 sacks Tail (see Drilling Plan)
7-7/8"	5-1/2" Mav-80 LT&C	17#	8,000'	90 sacks Lead and 600 sacks Tail (see Drilling Plan)

RECEIVED

Bond Information\*

Bond coverage is provided by Travelers Casualty and Surety Company of America, Bond #76S 63050 JUN 01 2004

DIV OF OIL, GAS & MINING

Other Information

Drilling Plan and Surface Use Plan are attached  
Dominion requests that this complete application for permit to drill be held confidential  
A request for exception to spacing (R649-3-11) is hereby requested based on topography since the well is located within 460' of the drilling unit boundary Dominion Exploration & Production, Inc is the only owner and operator within 460' of the proposed well and all points along the intended well bore path Included with the APD is the following supplemental information

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM If proposal is to deepen, give data present productive zone and proposed new productive zone If proposal is to drill or deepen directionally give pertinent data on subsurface locations and measured and true vertical depths Give blowout preventer program, if any

24 SIGNED Don Hamilton Don Hamilton TITLE Agent for Dominion DATE February 2, 2004  
(This space for Federal or State office use)

NOTICE OF APPROVAL

PERMIT NO \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
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  
APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE 05/27/2004

\*See Instructions On Reverse Side

Title 18 U S C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the

CONDITIONS OF APPROVAL ATTACHED

# DOMINION EXPLR. & PROD., INC.

## TYPICAL CROSS SECTIONS FOR

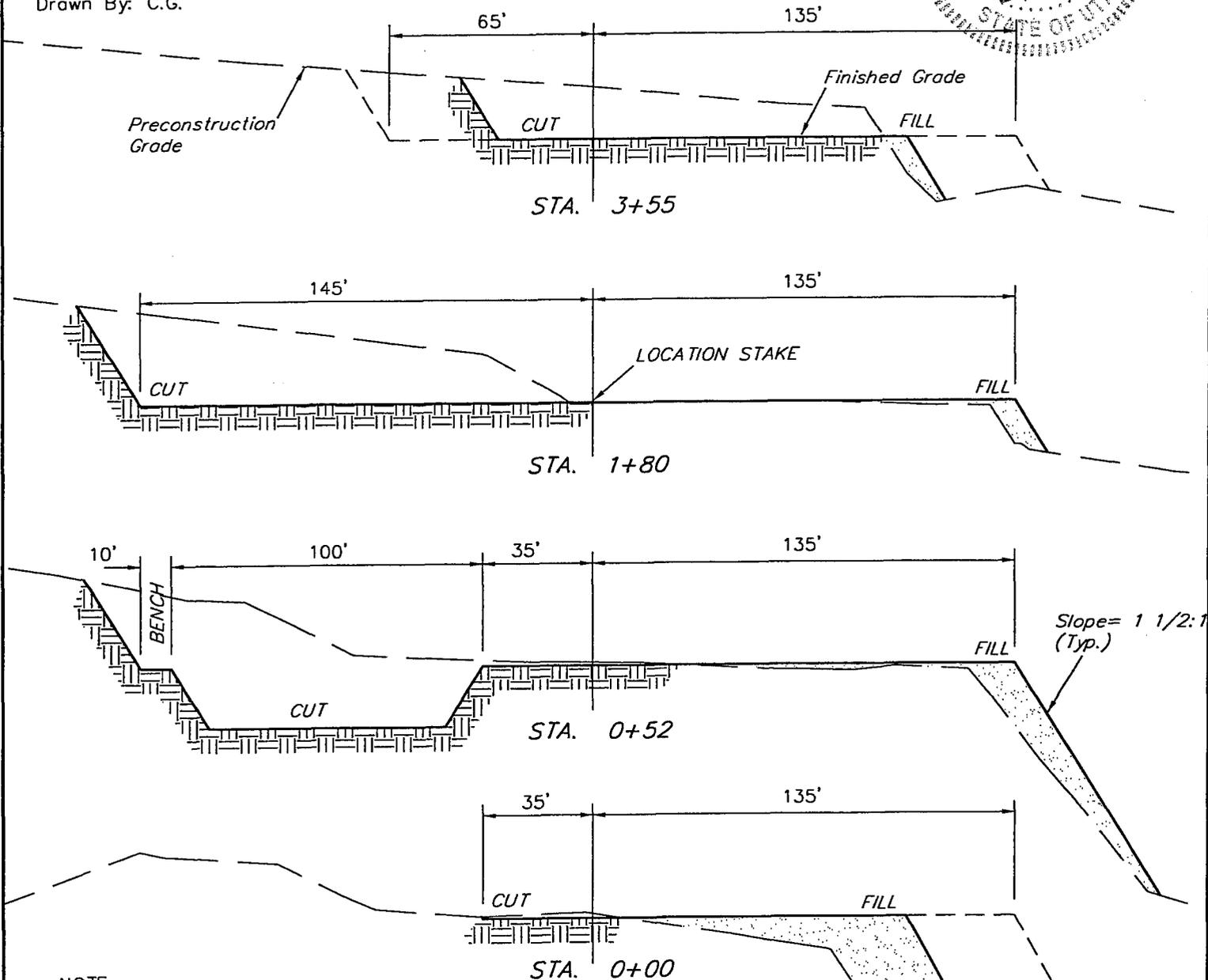
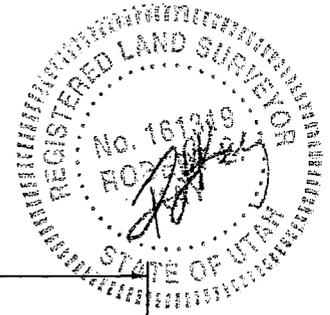
RBU #16-20F

SECTION 20, T10S, R20E, S.L.B.&M.

703' FSL 2143' FEL

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

DATE: 7-3-03  
Drawn By: C.G.



**NOTE:**

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

**APPROXIMATE YARDAGES**

**CUT**

(12") Topsoil Stripping	= 990 Cu. Yds.
Remaining Location	= 12,820 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 13,810 CU.YDS.</b>
<b>FILL</b>	<b>= 3,260 CU.YDS.</b>

**EXCESS MATERIAL AFTER 5% COMPACTION**

Topsoil & Pit Backfill (1/2 Pit Vol.)	= 10,380 Cu. Yds.
	= 2,520 Cu. Yds.
<b>EXCESS UNBALANCE (After Rehabilitation)</b>	<b>= 7,860 Cu. Yds.</b>

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **3M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint. Surface casing setting depths are based on ground level elevations only.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the intermediate casing at least 200 ft. above the top of the Green River Formation, identified at  $\pm 1,125$  (MD) ft and by having a cement top for the production casing at least 200 ft. the top of the Wasatch Formation at 4,511 (MD) ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor proof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3

shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office.

All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 828-7874  
Petroleum Engineer

Kirk Fleetwood (435) 828-7875  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

Dominion Exploration and Production, Inc. (Dominion) will assure the Ute Tribe that any/all contractors and subcontractors have acquired a current Tribal Business License and have updated "Access Permits" prior to construction. All Dominion personnel, contractors and subcontractors will have these permits in their vehicles at all times. Companies that have not complied with this COA will be in violation of the Ute Tribal Business License Ordinance, and will be subject to fines and penalties.

Dominion employees, representatives, and/or authorized personnel (subcontractors) shall not carry firearms on their person or in their vehicles while working on the Uintah and Ouray Indian Reservation.

Dominion employees and/or authorized personnel (subcontractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

Dominion will notify the Ute Tribe and Bureau of Indian Affairs (BIA) in writing of any requested modification of APDs or Rights-Of Way (ROW). Dominion shall receive written notification of authorization or denial of the requested modification. Without authorization, Dominion will be subject to fines and penalties.

The Ute Tribe Energy & Minerals Department shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday. A Tribal Technician is to routinely monitor construction. Dominion shall make arrangements with the Ute Energy & Minerals Department for all monitoring that will exceed regular working hours for Tribal Technicians. A qualified archaeologist accompanied by a Tribal Technician will monitor any trenching construction of the pipeline.

The existing ROWs and pad for well RBU 15-20F would also be used for this well. The existing pipeline would be upgraded to a 4-inch steel surface line to its tie in point near RBU 9-20F. (Amendment to the BIA existing pipeline ROW would be needed) The constructed, travel width of the access road will be limited to 18 feet. Upon authorization by the Ute Tribe Energy & Minerals Department, the ROW may be wider where sharp curves; deep cuts and fills occur; or, where intersections with other roads are required.

Culverts and diversion ditches will be placed and constructed where needed. Road base gravel will be used where sandy soils make roadways and the drilling location hazardous for access or drilling operations.

Upon completion of the pertinent APD and ROWs, Dominion will notify the Ute Tribe Energy & Minerals Department for a Tribal Technician to verify the Affidavit of Completion.

Production waters, oil, and other byproducts shall not be placed on access roads or the well pad.

All vehicular traffic, personnel movement, construction and restoration operations will be confined to the areas examined and approved and to the existing roadways and/or evaluated access routes.

Dominion will implement "Safety and Emergency Plan" and ensure plan compliance.

Dominion shall stop construction activities and notify personnel from the Ute Tribe Energy & Minerals Department and BIA if cultural remains including paleontology resources (vertebrate fossils) are exposed or identified during construction. The Ute Tribe Department of Cultural Rights and Protection and the BIA will provide mitigation measures prior to allowing construction.

Dominion employees and/or authorized personnel (subcontractors) will not be allowed to collect artifacts and paleontology fossils. No significant cultural resources shall be disturbed.

Dominion will control noxious weeds on the well site and ROWs. Dominion will be responsible for noxious weed control if weeds spread from the project area onto adjoining land.

Reserve pits will be lined with an impervious synthetic liner. A fence will be constructed around the reserve pit until it is backfilled. Prior to backfilling the reserve pit, all fluids will be pumped from the pit into trucks and hauled, to approved disposal sites. When the reserve pits are backfilled, the surplus oil and mud, etc., will be buried a minimum of 3 feet below the surface of the soil.

A closed system will be used during production. This means that production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites.

Surface pipelines will be constructed to lay on the soil surface. The pipeline portion of the ROW will not be bladed or cleared of vegetation without authorization of the BIA. Surface pipelines shall be welded in place at well sites or on access roads. They shall be pulled into place and assembled with suitable equipment. Vehicles shall not use pipeline ROWs as access roads unless specifically authorized.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface. After construction is completed the disturbed area shall be contoured to blend into the natural landscape and be reseeded between September 15 and November 1 of the year following construction with perennial vegetation seed mixture provided by the BIA or Ute Tribe.

Before the site is abandoned, Dominion will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Soil erosion will be mitigated, by reseeding all disturbed areas.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

007

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 Dominion Exploration & Production, Inc.

3a. Address                      Suite 600  
 14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
 (405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 703' FSL & 2143' FEL, SW SE Sec. 20-10S-20E

5. Lease Serial No.  
 U-0143520-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
 RBU 16-20F

9. API Well No.  
 43-047-35467

10. Field and Pool, or Exploratory Area  
 Natural Buttes

11. County or Parish, State  
 Uintah, UT

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other Extension of APD.

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The state APD for this wells expires February 10, 2005. Dominion is hereby requesting a one year extension.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 02-08-05  
By: [Signature]

COPIES SENT TO OPERATOR  
Date: 2-9-05  
Initials: CHD

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **Carla Christian** Title **Regulatory Specialist**

Signature *Carla Christian* Date **2/02/2004**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice 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. Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes 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.

RECEIVED

FEB 0 / 2005

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-35467  
Well Name: RBU 16-20F  
Location: Section 20-10S-20E, 703' FSL & 2143' FEL  
Company Permit Issued to: Dominion Exploration & Production, Inc.  
Date Original Permit Issued: 2/10/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

Carla Christian  
Signature

2/2/2005

Date

Title: Regulatory Specialist

Representing: Dominion Exploration & Production, Inc.

RECEIVED

FEB 0 / 2005

DIV OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135

Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

703' FSL & 2143' FEL, SW SE Sec. 20-10S-20E

5. Lease Serial No.

U-0143520-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

RBU 16-20F

9. API Well No.

43-047-35467

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other
			Extension of APD.

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The state APD for this wells expires February 10, 2005. Dominion is hereby requesting a one year extension.

**CONDITIONS OF APPROVAL ATTACHED**

RECEIVED  
JUN 03 2005

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Carla Christian  
Signature *Carla Christian*

DIV. OF OIL, GAS & MINING  
Title Regulatory Specialist  
Date 2/02/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *Kirk Fulwood*  
Conditions of approval, if any, are attached. Approval of this notice 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.

Title Petroleum Engineer  
Office  
Date MAY 17 2005

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes 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.

UDOGM

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-35467  
**Well Name:** RBU 16-20F  
**Location:** Section 20-10S-20E, 703' FSL & 2143' FEL  
**Company Permit Issued to:** Dominion Exploration & Production, Inc.  
**Date Original Permit Issued:** 2/10/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

Carla Christian  
Signature

2/2/2005  
Date

Title: Regulatory Specialist

Representing: Dominion Exploration & Production, Inc.

Dominion Exploration and Prod. Inc.  
APD Extension

Well: RBU 16-20F

Location: SWSE Sec. 20 T10S, R20E

Lease: U-0143520A

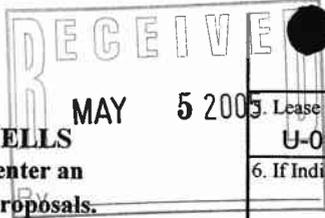
**Conditions of Approval**

An extension for the referenced APD is granted with the following condition(s):

1. The extension will expire 5/27/06
2. No other extensions beyond that time frame will be granted or allowed.

If you have any other questions concerning this matter, please contact Kirk Fleetwood at (435) 781-4486.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.  
**U-0143520-A**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**RBU 16-20F**

9. API Well No.  
**43-047-35467**

10. Field and Pool, or Exploratory Area  
**Natural Buttes**

11. County or Parish, State  
**Uintah, UT**

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Dominion Exploration & Production, Inc.**

3a. Address                      Suite 600  
**14000 Quail Springs Parkway, OKC, OK 73134**

3b. Phone No. (include area code)  
**(405) 749-5263**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**703' FSL & 2143' FEL, SW SE Sec. 20-10S-20E**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>Extension of APD.</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The Federal APD for this wells expires May 27, 2005. Dominion is hereby requesting a one year extension.

**RECEIVED**  
**SEP 09 2005**

**CONDITIONS OF APPROVAL ATTACHED**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **Carla Christian**                      Title **Regulatory Specialist**

Signature *Carla Christian*                      Date **5/03/2005**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *Matt Baker*                      Title **Petroleum Engineer**                      Date **AUG 02 2005**

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes 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.

**UDOGM**

# CONDITIONS OF APPROVAL

## Dominion Exploration & Production Inc.

### Notice of Intent APD Extension

**Lease:** UTU-0143520-A  
**Well:** RBU #16-20F  
**Location:** SWSE Sec 20-T10S-R20E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 05/27/06
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Matt Baker of this office at (435) 781-4490

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
**U-0143520A**

6. If Indian, Allottee or Tribe Name  
**Ute Indian Tribe**

1a. Type of work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

7. If Unit or CA Agreement, Name and No.  
**River Bend Unit**

8. Lease Name and Well No.  
**RBU 16-20F**

2. Name of Operator  
**Dominion Exploration & Production, Inc.**

9. API Well No.  
**43-047-35467**

3a. Address **14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134**

3b. Phone No. (include area code)  
**405-749-5263**

10. Field and Pool, or Exploratory  
**Natural Buttes**

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface **142' FSL & 906' FEL, SE/4 SE/4,**  
At proposed prod. zone **750' FSL & 550' FEL, SE/4 SE/4,**

11. Sec., T. R. M. or Blk. and Survey or Area  
**Section 20, T10S, R20E, SLB&M**

14. Distance in miles and direction from nearest town or post office\*  
**11.23 miles south of Ouray, Utah**

12. County or Parish  
**Uintah**

13. State  
**UT**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **142'**

16. No. of acres in lease  
**640**

17. Spacing Unit dedicated to this well  
**40 acres**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. **750'**

19. Proposed Depth  
**8,200' (8,266' MD)**

20. BLM/BIA Bond No. on file  
**76S 63050 0330**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**5,174' GR**

22. Approximate date work will start\*  
**04/01/2006**

23. Estimated duration  
**14 days**

24. Attachments

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

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>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).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above).</li> <li>5. Operator certification</li> <li>6. Such other site specific information and/or plans as may be required by the BLM.</li> </ul> |
|---|---|

25. Signature  
*Don Hamilton*  
Title  
**Agent for Dominion**

Name (Printed/Typed)  
**Don Hamilton**

Date  
**12/20/2005**

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.

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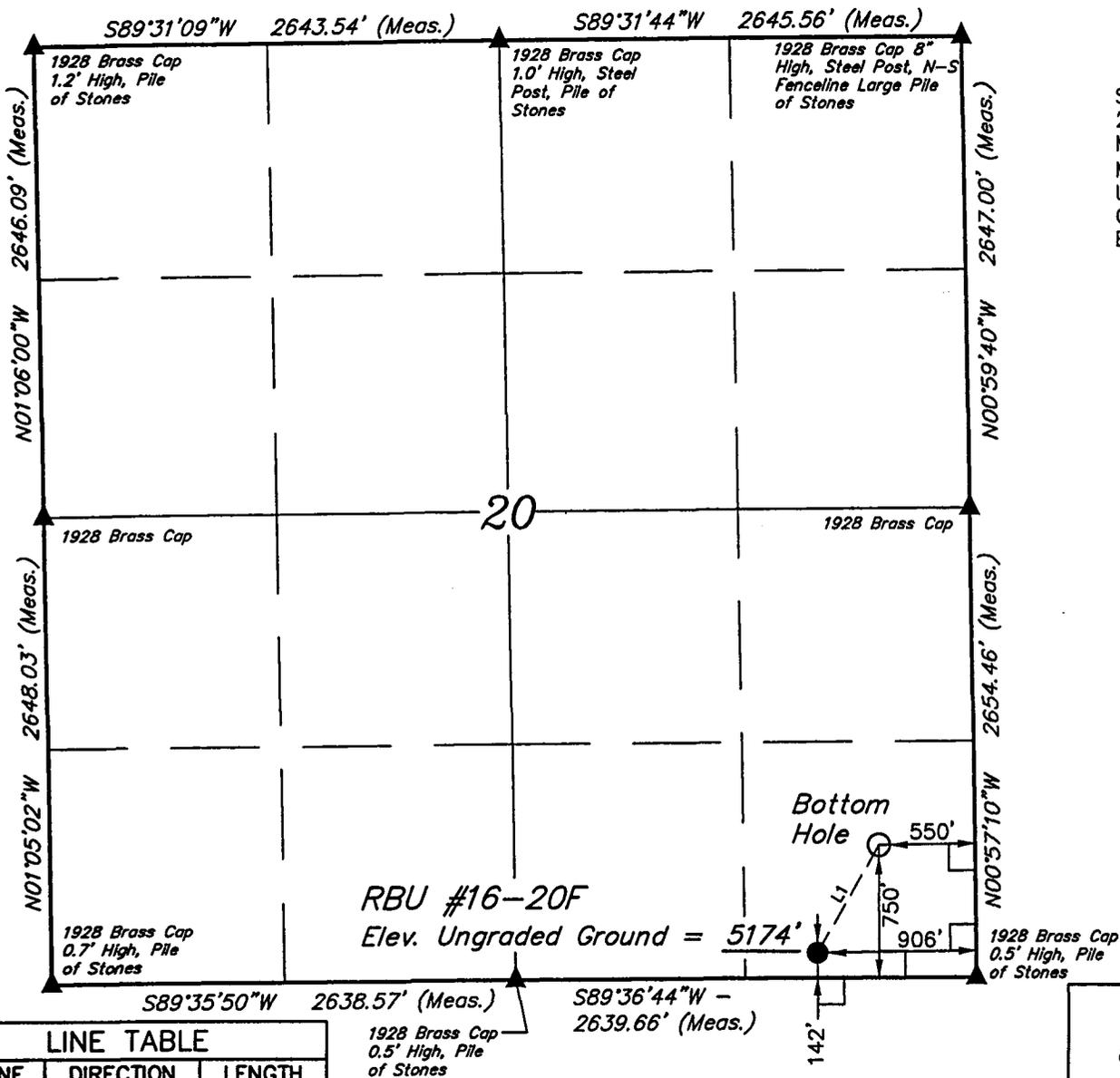
\*(Instructions on page 2)

RECEIVED  
DEC 23 2005  
DIV. OF OIL, GAS & MINING  
**CONFIDENTIAL**

T10S, R20E, S.L.B.&M.

DOMINION EXPLR. & PROD., INC.

Well location, RBU #16-20F, located as shown in the SE 1/4 SE 1/4 of Section 20, T10S, R20E, S.L.B.&M. Uintah County Utah.

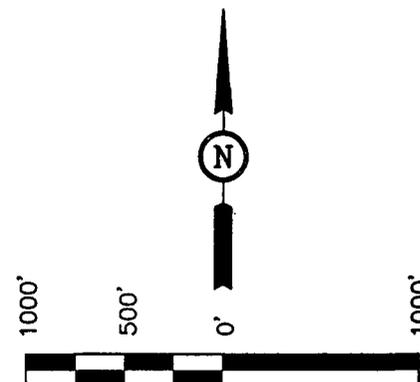


BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.

BASIS OF BEARINGS

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



SCALE AND SURVEYING 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.

*Robert A. Haney*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 104319  
STATE OF UTAH

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N29°33'23"E	701.92'

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

RBU #16-20F  
Elev. Ungraded Ground = 5174'

(NAD 83)  
LATITUDE = 39°55'33.10" (39.925861)  
LONGITUDE = 109°40'57.55" (109.682653)  
(NAD 27)  
LATITUDE = 39°55'33.23" (39.925897)  
LONGITUDE = 109°40'55.06" (109.681961)

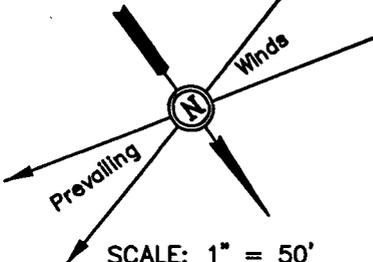
<p align="center"><b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017</p>		
SCALE 1" = 1000'	DATE SURVEYED: 8-30-05	DATE DRAWN: 9-19-05
PARTY B.B. J.R. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE DOMINION EXPLR. & PROD. INC.	

**DOMINION EXPLR. & PROD., C.**

**LOCATION LAYOUT FOR**

**RBU #16-20F**  
**SECTION 20, T10S, R20E, S.L.B.&M.**  
**142' FSL 906' FEL**

Section 29  
 Section 20



SCALE: 1" = 50'  
 DATE: 9-19-05  
 Drawn By: K.G.

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

Existing Ledge

Proposed Access  
 Road Ramp onto  
 Location as Needed

F-21.7'  
 El. 44.4'

6 F-18.5'  
 El. 47.6'

7 F-7.0'  
 El. 59.1'

Sta. 3+55

Round Corners  
 as Needed

Approx.  
 Top of  
 Cut Slope

FLARE PIT

El. 74.2'  
 F-8.1'

C-7.7'  
 El. 73.8'

El. 74.0'  
 C-19.9'  
 (btm. pit)

20' WIDE BENCH

RIG DOG HOUSE

135' Sta. 1+80

F-2.1'  
 El. 64.0'

Reserve Pit Backfill  
 & Spoils Stockpile

10' WIDE BENCH

60'

30'

35'

WATER

PUMP

MUD TANKS

MUD SHED

HOPPER

POWER

TOOLS

FUEL

TRASH

TRAILER

TOILET

FUEL

STORAGE TANK

TRASH

TRAILER

TOILET

FUEL

STORAGE TANK

TRASH

TRAILER

TOILET

FUEL

STORAGE TANK

Approx.  
 Toe of  
 Fill Slope

Sta. 0+50

C-1.4'  
 El. 67.5'

C-1.2'  
 El. 67.3'

Sta. 0+00

Total Pit Capacity  
 W/2' of Freeboard  
 = 10,800 Bbls. ±  
 Total Pit Volume  
 = 2,960 Cu. Yds.

C-11.3'  
 El. 65.4'  
 (btm. pit)

20' WIDE BENCH

Topsoil Stockpile

F-13.8'  
 El. 52.3'

Elev. Ungraded Ground at Location Stake = 5173.8'  
 Elev. Graded Ground at Location Stake = 5166.1'

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

**DOMINION EXPLR. & PROD., INC.**

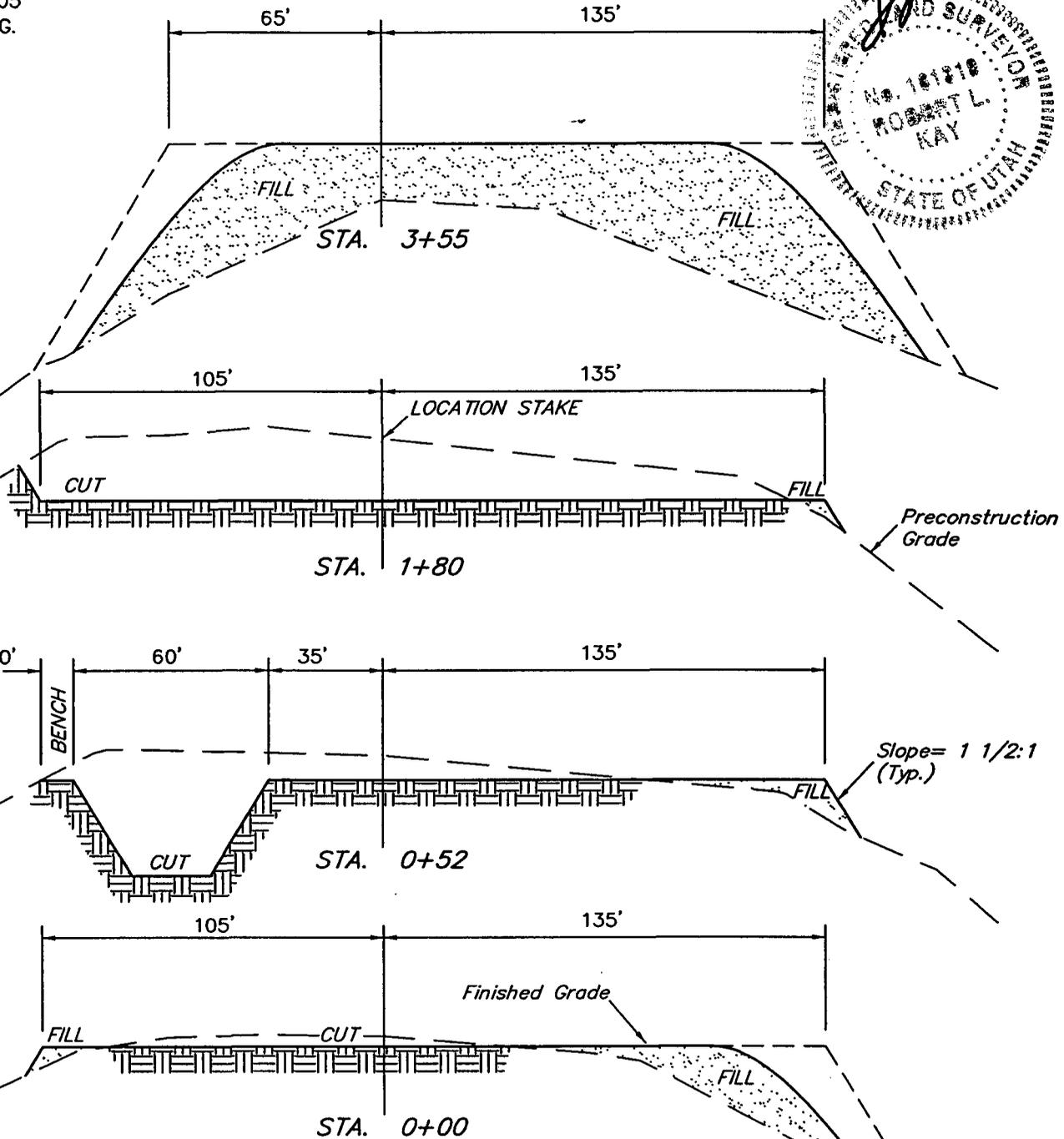
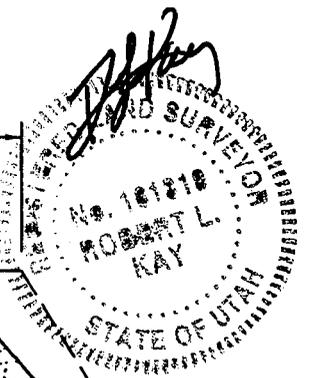
**TYPICAL CROSS SECTIONS FOR**

**RBU #16-20F**

**SECTION 20, T10S, R20E, S.L.B.&M.**

**142' FSL 906' FEL**

1" = 20'  
X-Section Scale  
1" = 50'  
DATE: 9-19-05  
Drawn By: K.G.



**APPROXIMATE YARDAGES**

<b>CUT</b>	
(12") Topsoil Stripping	= 3,790 Cu. Yds.
Remaining Location	= 10,650 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 14,440 CU.YDS.</b>
<b>FILL</b>	<b>= 9,170 CU.YDS.</b>

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

EXCESS MATERIAL	= 5,270 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,270 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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

# DOMINION EXPLR. & PROD., INC.

RBU #16-20F

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 20, T10S, R20E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

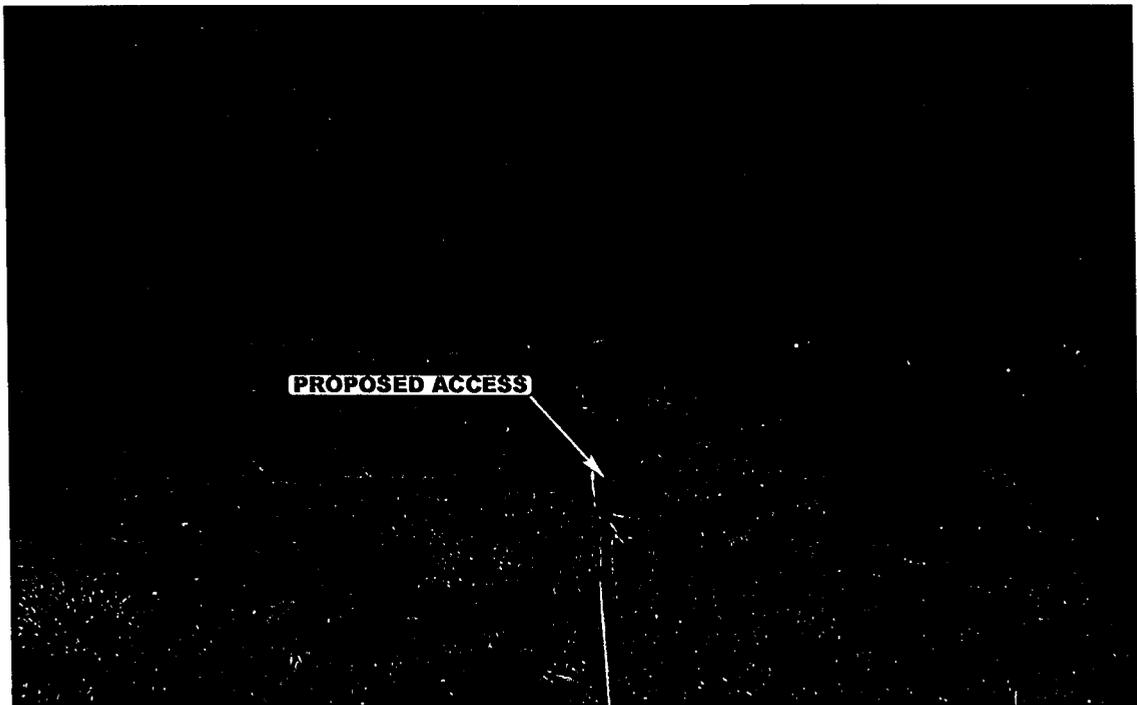


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



**UELS**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

- Since 1964 -

LOCATION PHOTOS

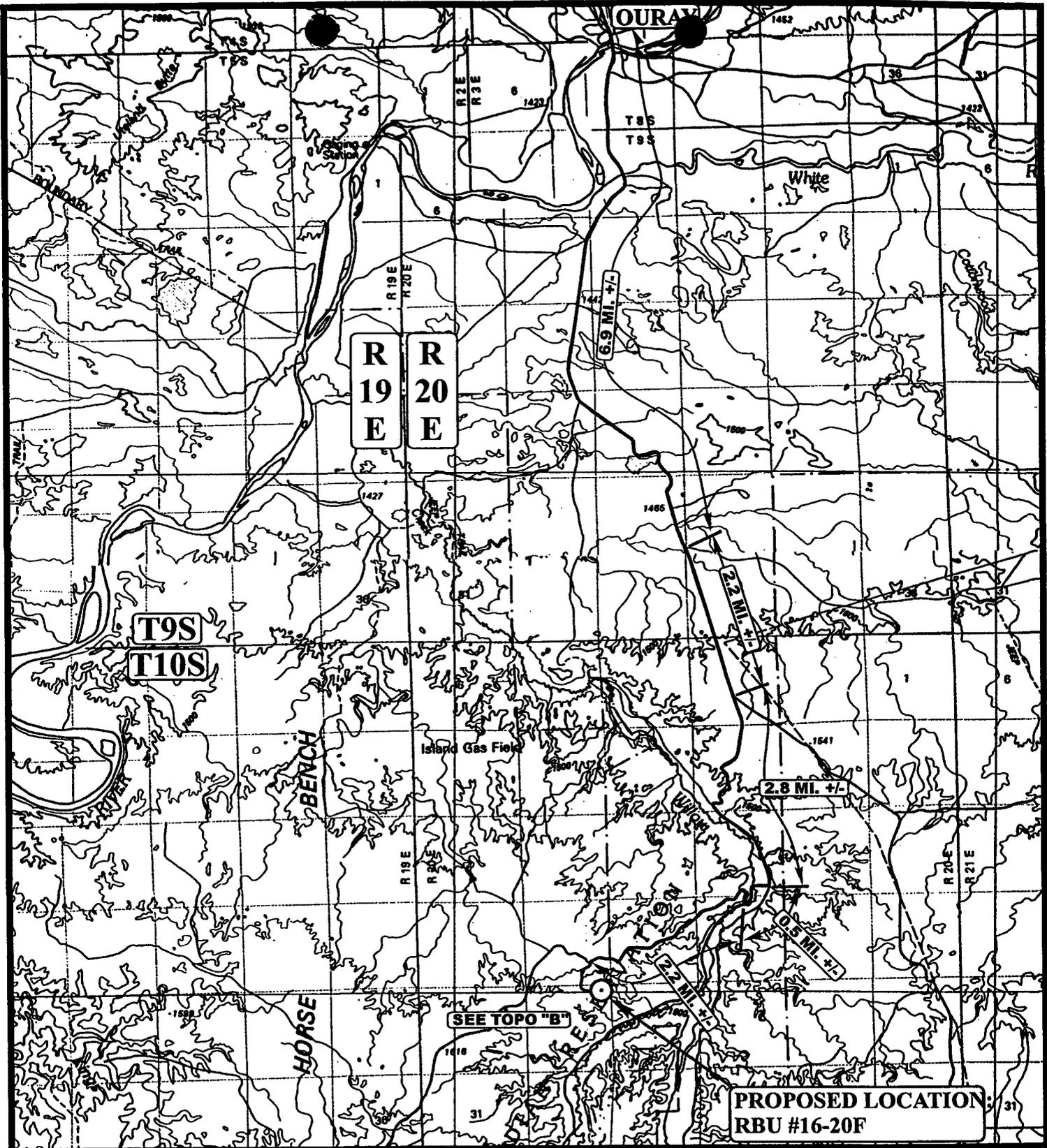
09 02 05  
MONTH DAY YEAR

PHOTO

TAKEN BY: B.B.

DRAWN BY: C.H.

REVISED: 00-00-00



**PROPOSED LOCATION:**  
**RBU #16-20F**

**LEGEND:**

○ PROPOSED LOCATION

**DOMINION EXPLR. & PROD., INC.**

**RBU #16-20F**  
**SECTION 20, T10S, R20E, S.L.B.&M.**  
**142' FSL 906' FEL**



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

**TOPOGRAPHIC**  
**MAP**

<b>09</b>	<b>02</b>	<b>05</b>
MONTH	DAY	YEAR

SCALE: 1:100,000 DRAWN BY: C.H. REVISED: 00-00-00



T10S



**PROPOSED LOCATION:  
RBU #16-20F**

**PROPOSED ACCESS 0.1 MI. +/-**

**0.3 MI. +/-**

**0.15 MI. +/-**

**TOURAY 14.6 MI. +/-**

**BOUNDARY**

**R  
20  
E**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**DOMINION EXPLR. & PROD., INC.**

**RBU #16-20F**  
**SECTION 20, T10S, R20E, S.L.B.&M.**  
**142' FSL 906' FEL**



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

**TOPOGRAPHIC** **09|02|05**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00



T10S



**PROPOSED LOCATION:  
RBU #16-20F**

R  
20  
E

**LEGEND:**

- ∅ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊕ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



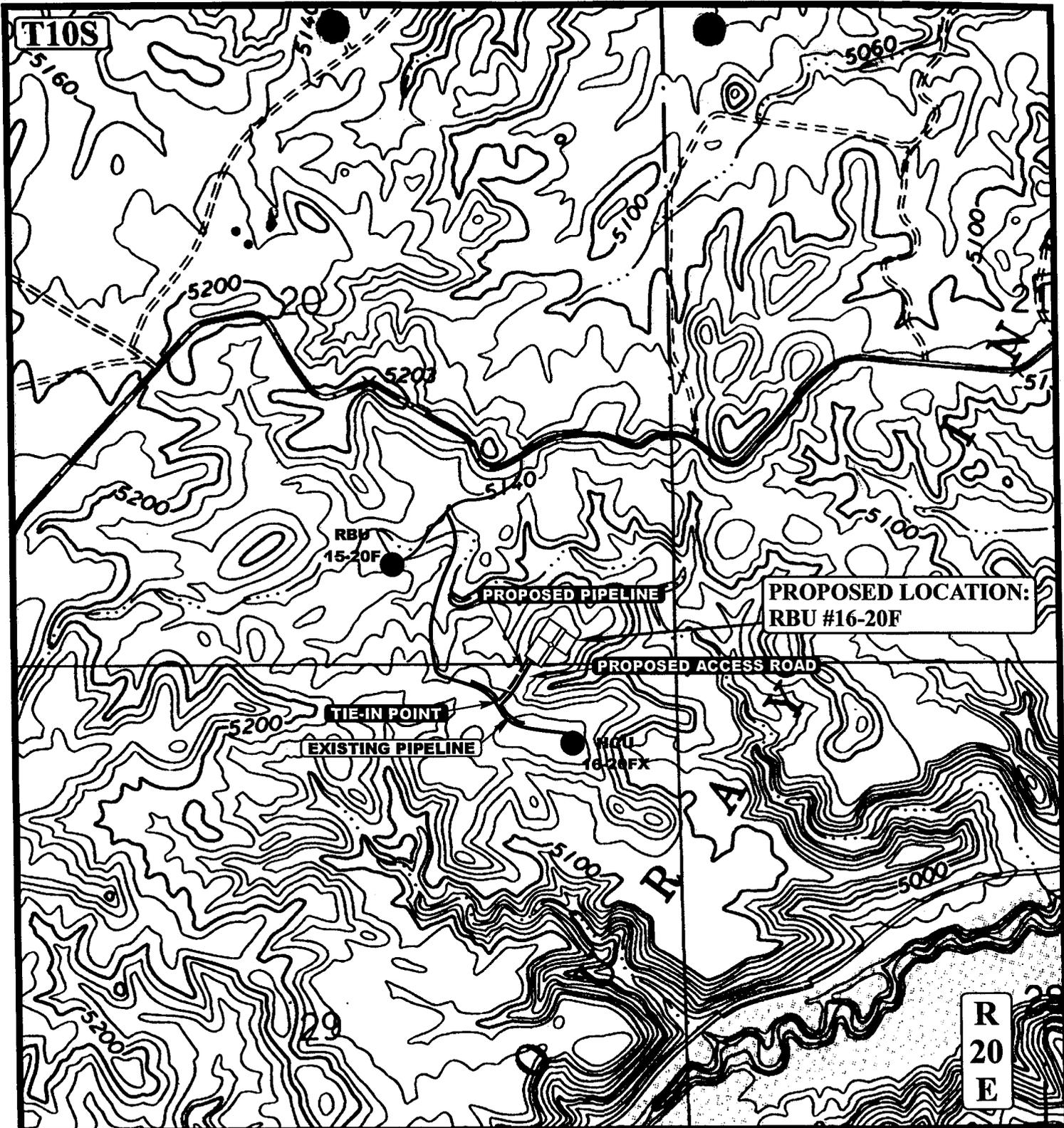
**DOMINION EXPLR. & PROD., INC.**

**RBU #16-20F**  
**SECTION 20, T10S, R20E, S.L.B.&M.**  
**142' FSL 906' FEL**



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

<b>TOPOGRAPHIC</b>	<b>09 02 05</b>	<b>C</b> TOPO
<b>MAP</b>	MONTH DAY YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.G.	REVISED: 00-00-00



APPROXIMATE TOTAL PIPELINE DISTANCE = 437' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



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**TOPOGRAPHIC  
MAP**

**09 02 05**  
MONTH DAY YEAR

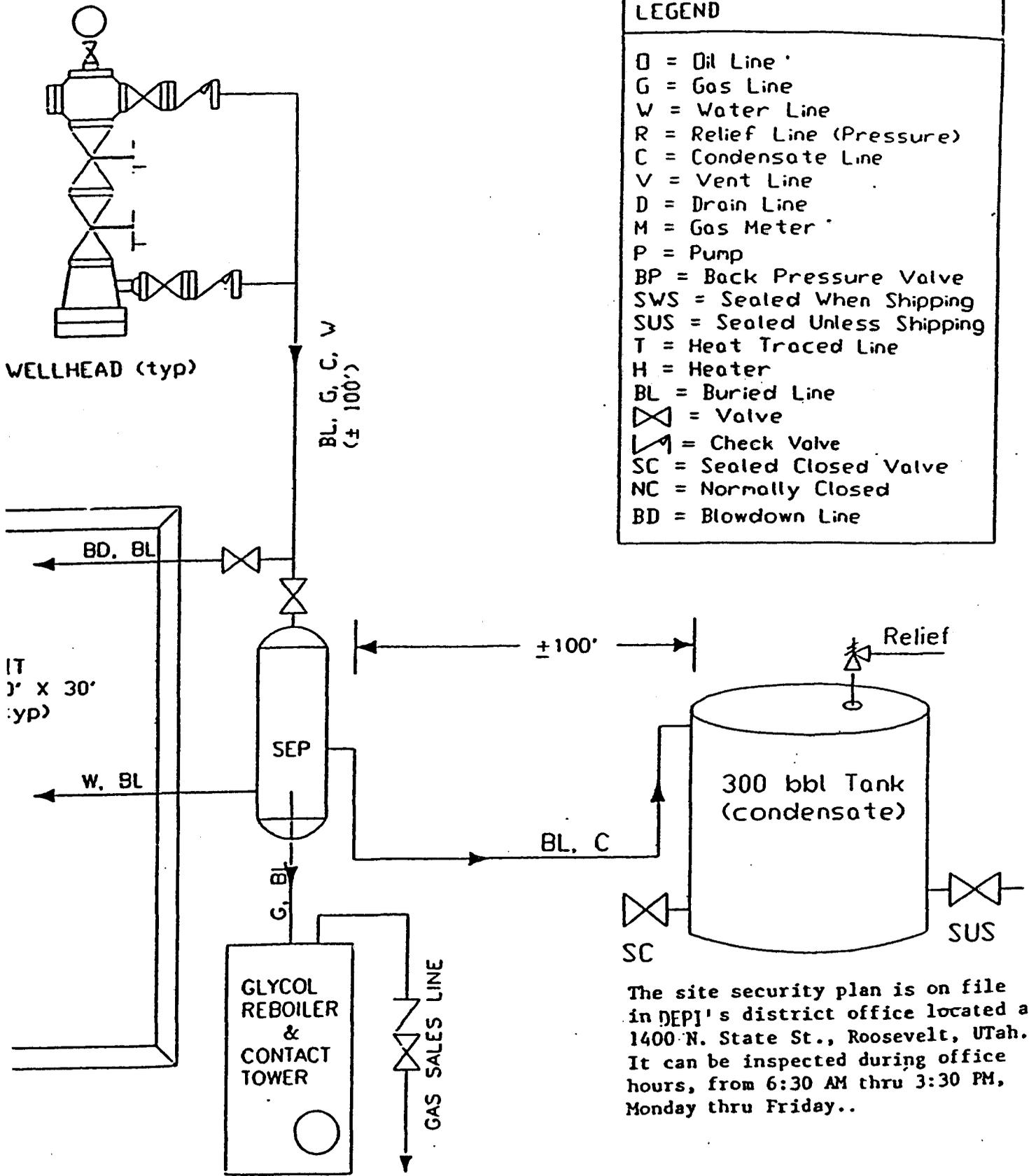
SCALE: 1" = 1000' DRAWN BY: C.H. REVISED: 00-00-00

**D  
TOPO**

DOMINION EXPLR. & PROD., INC.  
RBU #16-20F  
SECTION 20, T10S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 2.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.15 MILES.



LEGEND

- O = Oil Line
- G = Gas Line
- W = Water Line
- R = Relief Line (Pressure)
- C = Condensate Line
- V = Vent Line
- D = Drain Line
- M = Gas Meter
- P = Pump
- BP = Back Pressure Valve
- SWS = Sealed When Shipping
- SUS = Sealed Unless Shipping
- T = Heat Traced Line
- H = Heater
- BL = Buried Line
- ⊗ = Valve
- ↗ = Check Valve
- SC = Sealed Closed Valve
- NC = Normally Closed
- BD = Blowdown Line

The site security plan is on file in DEPJ's district office located at 1400 N. State St., Roosevelt, Utah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

DOMINION EXPLORATION & PRODUCTION, INC.

not to scale

TYPICAL FLOW DIAGRAM

date: / /

# DRILLING PLAN

## APPROVAL OF OPERATIONS

### Attachment for Permit to Drill

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** RBU 16-20F  
SHL: 142' FSL & 906' FEL Section 20-10S-20E  
BHL: 750' FSL & 550' FEL Section 20-10S-20E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Uintah

2. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS

<u>Formation</u>	<u>Depth</u>
Wasatch Tongue	4,045'
Green River Tongue	4,385'
Wasatch	4,535'
Chapita Wells	5,435'
Uteland Buttes	6,610'
Mesaverde	7,435'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Wasatch Tongue	4,045'	Oil
Green River Tongue	4,385'	Oil
Wasatch	4,535'	Gas
Chapita Wells	5,435'	Gas
Uteland Buttes	6,610'	Gas
Mesaverde	7,435'	Gas

4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom</u>	<u>Hole</u>
Surface	13-3/8"	48.0 ppf	H-40	STC	0'	500'	17-1/2"
Intermediate	9-5/8"	36.0 ppf	J-55	LTC	0'	2,800'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	8,200'	7-7/8"

5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized.

Intermediate hole: To be drilled using a diverter stack with rotating head to divert flow from rig floor.

Production hole: Prior to drilling out the intermediate casing shoe, 3,000 psi or greater BOP equipment will be installed. The pipe rams will be operated at least once per day from intermediate casing to total depth. The blind rams will be tested once per day from intermediate casing to total depth if operations permit.

**CONFIDENTIAL**

## DRILLING PLAN

### APPROVAL OF OPERATIONS

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling below the intermediate casing shoe. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

#### 6. MUD SYSTEMS

- An air or an air/mist system may be used to drill the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.

<u>Depths</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' – 500'	8.4	Air foam mist, no pressure control
500' – 2,800'	8.6	Fresh water, rotating head and diverter
2,800' – 8,200'	8.6	Fresh water/2% KCL/KCL mud system

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a contact ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 100' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to intermediate casing.
- The gamma ray will be left on to record from total depth to intermediate casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to intermediate casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500–2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H<sub>2</sub>S gas.

#### 11. WATER SUPPLY

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

**DRILLING PLAN**

**APPROVAL OF OPERATIONS**

**12. CEMENT SYSTEMS**

**a. Surface Cement:**

Drill 17-1/2" hole to 500' and cement 13-3/8" to surface with 450 sks class "C" cement with 2% CaCl<sub>2</sub> and 1/4 #/sk. Polyflake (volume includes 70% excess). Top out as necessary.

**b. Intermediate Casing Cement:**

- Drill 12-1/4" hole to 2,800'±, run and cement 9-5/8" to surface.
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug two joints off bottom e) bottom three joints thread locked f) pump job with bottom plug only.
- Cement to surface not required due to surface casing set deeper than normal.

<u>Type</u>	<u>Sacks</u>	<u>Interval</u>	<u>Density</u>	<u>Yield</u>	<u>Hole</u>	<u>Cement</u>
					<u>Volume</u>	<u>Volume</u>
Lead	300	0'-2,000'	11.0 ppg	3.82 CFS	644 CF	1,128 CF
Tail	390	2,000'-2,800'	15.6 ppg	1.18 CFS	251 CF	439 CF

Intermediate design volumes based on 75% excess of gauge hole.

**Lead Mix:** Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.82 cf/sack                      Slurry weight: 11.00 #/gal.  
Water requirement: 22.95 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

**Tail Mix:** Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
Pump Time: 1 hr. 5 min. @ 90 °F.  
Compressives @ 95 °F: 24 Hour is 4,700 psi

**c. Production Casing Cement:**

- Drill 7-7/8" hole to 8,200'±, run and cement 5 1/2".
- Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
- Displace with 2% KCL.

<u>Type</u>	<u>Sacks</u>	<u>Interval</u>	<u>Density</u>	<u>Yield</u>	<u>Hole</u>	<u>Cement</u>
					<u>Volume</u>	<u>Volume</u>
Lead	60	3,700'-4,500'	11.5 ppg	3.12 CFS	139 CF	187 CF
Tail	540	4,500'-8,500'	13.0 ppg	1.75 CFS	700 CF	945 CF

Production design volumes based on 35% excess of gauge hole. Actual volumes will be calculated from caliper log to bring lead cement to 800' above top of Wasatch + 15% excess, and tail cement to top of Wasatch +15%.

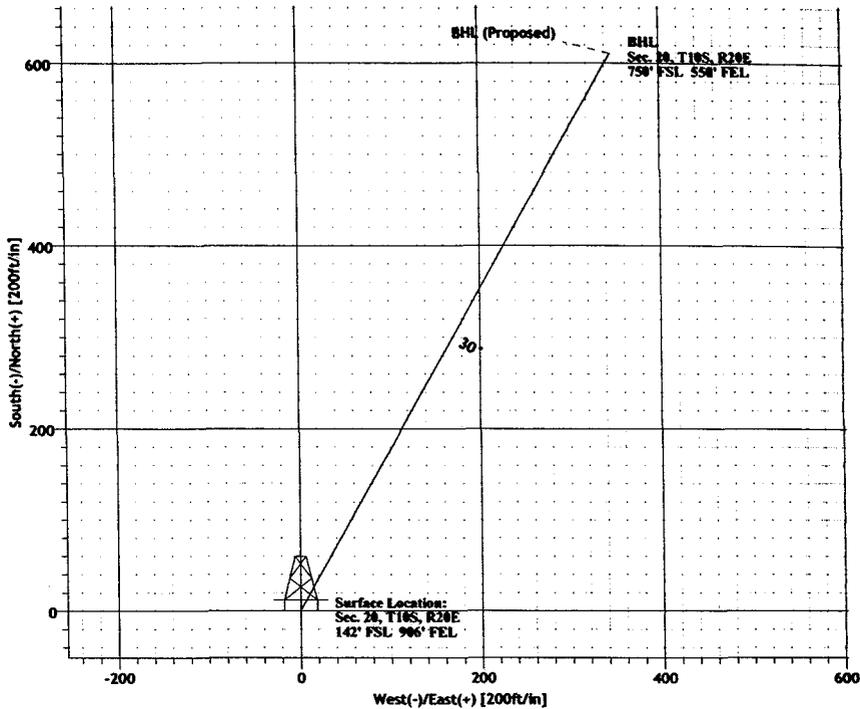
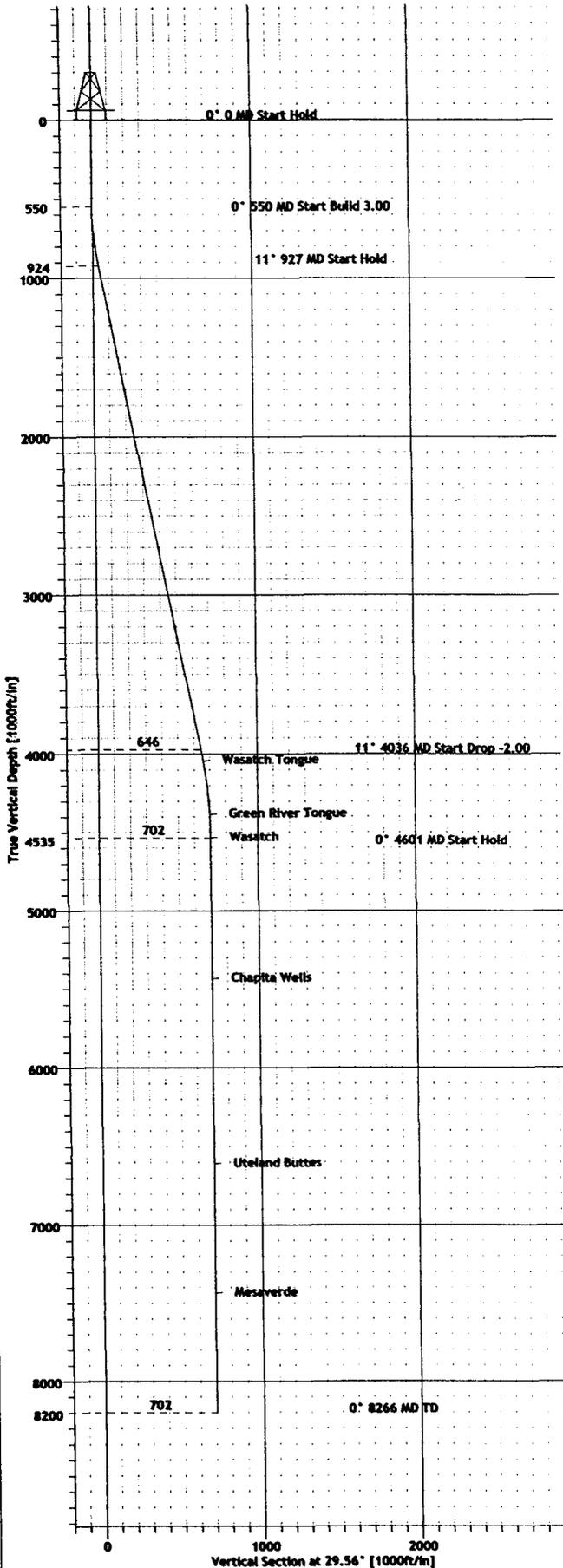
**Lead Mix:** Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.12 cf/sack                      Slurry weight: 11.60 #/gal.  
Water requirement: 17.71 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

**Tail Mix:** Halliburton HLC blend (Prem Plus V/JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.  
Slurry yield: 1.75 cf/sack                      Slurry weight: 13.00 #/gal.  
Water requirement: 9.09 gal/sack  
Compressives @ 165°F: 905 psi after 24 hours

**13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS**

**Starting Date:** April 1, 2006  
**Duration:** 14 Days

Well: RBU 16-20F  
 Field: River Bend Unit  
 Uintah Co. Utah  
 Sec. 20, T10S, R20E



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	29.56	0.00	0.00	0.00	0.00	0.00	0.00	
2	550.00	0.00	29.56	550.00	0.00	0.00	0.00	29.56	0.00	
3	926.68	11.30	29.56	924.24	32.21	18.26	3.00	29.56	37.03	
4	4036.36	11.30	29.56	3973.63	562.27	318.84	0.00	0.00	646.38	
5	4601.38	0.00	29.56	4535.00	610.58	346.24	2.00	180.00	701.92	
6	8266.38	0.00	29.56	8200.00	610.58	346.24	0.00	29.56	701.92	

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
RBU 16-20F	0.00	0.00	7146910.49	2150038.66	39°55'33.100N	109°40'57.550W	N/A

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	4045.00	4108.96	Wasatch Tongue
2	4385.00	4451.31	Green River Tongue
3	4535.00	4601.38	Wasatch
4	5435.00	5501.38	Chapita Wells
5	6610.00	6676.38	Uteland Buttes
6	7435.00	7501.38	Mesaverde

WELLPATH DETAILS

Rig:	Origin +N/-S	Origin +E/-W	Starting From TVD
Ref. Datum: est.KB @ 5185'	0.00ft		
V.Section Angle: 29.56°	0.00	0.00	0.00

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Centre RBU 16-20F, True North  
 Vertical (TVD) Reference: est.KB @ 5185' 0.00  
 Section (VS) Reference: Site Centre (0.00N,0.00E)  
 Measured Depth Reference: est.KB @ 5185' 0.00  
 Calculation Method: Minimum Curvature



Azimuths to True North  
 Magnetic North: 11.84°

Magnetic Field Strength: 52864nT  
 Dip Angle: 65.91°  
 Date: 12/16/2005  
 Model: igrf2005

FIELD DETAILS

Natural Buttes Field  
 Uintah County, Utah  
 USA  
 Geodetic System: US State Plane Coordinate System 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah, Central Zone  
 Magnetic Model: igrf2005  
 System Datum: Mean Sea Level  
 Local North: True North

SITE DETAILS

RBU 16-20F  
 River Bend Unit  
 Sec. 20, T10S, R20E  
 Site Centre Latitude: 39°55'33.100N  
 Longitude: 109°40'57.550W  
 Ground Level: 5166.00  
 Positional Uncertainty: 0.00  
 Convergence: 1.16



# Ryan Energy Technology Planning Report



<b>Company:</b> Dominion E & P	<b>Date:</b> 12/16/2005	<b>Time:</b> 12:42:03	<b>Page:</b> 1
<b>Field:</b> Natural Buttes Field	<b>Co-ordinate(NE) Reference:</b> RBU 16-20F, True North		
<b>Site:</b> RBU 16-20F	<b>Vertical (TVD) Reference:</b> est.KB @ 5185' 0.0		
<b>Well:</b> RBU 16-20F	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,29.56Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b>	<b>Plan #1</b>	

<b>Field:</b> Natural Buttes Field Uintah County, Utah USA	<b>Map Zone:</b> Utah, Central Zone
<b>Map System:</b> US State Plane Coordinate System 1983	<b>Coordinate System:</b> Site Centre
<b>Geo Datum:</b> GRS 1980	<b>Geomagnetic Model:</b> igrf2005
<b>Sys Datum:</b> Mean Sea Level	

<b>Site:</b> RBU 16-20F River Bend Unit Sec. 20, T10S, R20E	<b>Latitude:</b> 39 55 33.100 N
<b>Site Position:</b>	<b>Longitude:</b> 109 40 57.550 W
<b>From:</b> Geographic	<b>North Reference:</b> True
<b>Position Uncertainty:</b> 0.00 ft	<b>Grid Convergence:</b> 1.16 deg
<b>Ground Level:</b> 5166.00 ft	

<b>Well:</b> RBU 16-20F	<b>Slot Name:</b>
<b>Surface Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 7146910.49 ft
+E/-W 0.00 ft	<b>Easting:</b> 2150038.66 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 39 55 33.100 N
<b>Reference Point:</b> +N/-S 0.00 ft	<b>Longitude:</b> 109 40 57.550 W
+E/-W 0.00 ft	<b>Inclination:</b> 0.00 deg
	<b>Vertical Depth:</b> 0.00 ft
	<b>Azimuth:</b> 0.00 deg

<b>Wellpath:</b> 1	<b>Drilled From:</b> Well Ref. Point
<b>Current Datum:</b> est.KB @ 5185'	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 12/16/2005	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52864 nT	<b>Declination:</b> 11.84 deg
<b>Vertical Section: Depth From (TVD)</b>	<b>Mag Dip Angle:</b> 65.91 deg
ft	<b>+N/-S</b>
	ft
0.00	0.00
	<b>+E/-W</b>
	ft
	<b>Direction</b>
	deg
	29.56

<b>Plan:</b> Plan #1	<b>Date Composed:</b> 12/16/2005
<b>Principal:</b> Yes	<b>Version:</b> 1
	<b>Tied-to:</b> From Well Ref. Point

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	29.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	29.56	550.00	0.00	0.00	0.00	0.00	0.00	29.56	
926.68	11.30	29.56	924.24	32.21	18.26	3.00	3.00	0.00	29.56	
4036.36	11.30	29.56	3973.63	562.27	318.84	0.00	0.00	0.00	0.00	
4601.38	0.00	29.56	4535.00	610.58	346.24	2.00	-2.00	0.00	180.00	
8266.38	0.00	29.56	8200.00	610.58	346.24	0.00	0.00	0.00	29.56	

**Section 1 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	29.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	29.56	100.00	0.00	0.00	0.00	0.00	0.00	0.00	29.56
200.00	0.00	29.56	200.00	0.00	0.00	0.00	0.00	0.00	0.00	29.56
300.00	0.00	29.56	300.00	0.00	0.00	0.00	0.00	0.00	0.00	29.56
400.00	0.00	29.56	400.00	0.00	0.00	0.00	0.00	0.00	0.00	29.56
500.00	0.00	29.56	500.00	0.00	0.00	0.00	0.00	0.00	0.00	29.56
550.00	0.00	29.56	550.00	0.00	0.00	0.00	0.00	0.00	0.00	29.56

**Section 2 : Start Build 3.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
600.00	1.50	29.56	599.99	0.57	0.32	0.65	3.00	3.00	0.00	0.00
700.00	4.50	29.56	699.85	5.12	2.90	5.89	3.00	3.00	0.00	0.00



**Company:** Dominion E & P  
**Field:** Natural Buttes Field  
**Site:** RBU 16-20F  
**Well:** RBU 16-20F  
**Wellpath:** 1

**Date:** 12/16/2005      **Time:** 12:42:03  
**Co-ordinate(NE) Reference:** RBU 16-20F, True North  
**Vertical (TVD) Reference:** KB @ 5185' 0.0  
**Section (VS) Reference:** Site (0.00N,0.00E,29.56Azi)  
**Plan:** Plan #1

**Section 2 : Start Build 3.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
800.00	7.50	29.56	799.29	14.21	8.06	16.34	3.00	3.00	0.00	0.00
900.00	10.50	29.56	898.04	27.82	15.78	31.98	3.00	3.00	0.00	0.00
926.68	11.30	29.56	924.24	32.21	18.26	37.03	3.00	3.00	0.00	0.00

**Section 3 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1000.00	11.30	29.56	996.14	44.71	25.35	51.39	0.00	0.00	0.00	0.00
1100.00	11.30	29.56	1094.20	61.75	35.02	70.99	0.00	0.00	0.00	0.00
1200.00	11.30	29.56	1192.26	78.80	44.68	90.58	0.00	0.00	0.00	0.00
1300.00	11.30	29.56	1290.33	95.84	54.35	110.18	0.00	0.00	0.00	0.00
1400.00	11.30	29.56	1388.39	112.89	64.01	129.77	0.00	0.00	0.00	0.00
1500.00	11.30	29.56	1486.45	129.93	73.68	149.37	0.00	0.00	0.00	0.00
1600.00	11.30	29.56	1584.51	146.98	83.35	168.97	0.00	0.00	0.00	0.00
1700.00	11.30	29.56	1682.57	164.02	93.01	188.56	0.00	0.00	0.00	0.00
1800.00	11.30	29.56	1780.63	181.07	102.68	208.16	0.00	0.00	0.00	0.00
1900.00	11.30	29.56	1878.69	198.12	112.34	227.75	0.00	0.00	0.00	0.00
2000.00	11.30	29.56	1976.75	215.16	122.01	247.35	0.00	0.00	0.00	0.00
2100.00	11.30	29.56	2074.82	232.21	131.68	266.94	0.00	0.00	0.00	0.00
2200.00	11.30	29.56	2172.88	249.25	141.34	286.54	0.00	0.00	0.00	0.00
2300.00	11.30	29.56	2270.94	266.30	151.01	306.13	0.00	0.00	0.00	0.00
2400.00	11.30	29.56	2369.00	283.34	160.67	325.73	0.00	0.00	0.00	0.00
2500.00	11.30	29.56	2467.06	300.39	170.34	345.32	0.00	0.00	0.00	0.00
2600.00	11.30	29.56	2565.12	317.43	180.01	364.92	0.00	0.00	0.00	0.00
2700.00	11.30	29.56	2663.18	334.48	189.67	384.51	0.00	0.00	0.00	0.00
2800.00	11.30	29.56	2761.24	351.52	199.34	404.11	0.00	0.00	0.00	0.00
2900.00	11.30	29.56	2859.31	368.57	209.00	423.71	0.00	0.00	0.00	0.00
3000.00	11.30	29.56	2957.37	385.62	218.67	443.30	0.00	0.00	0.00	0.00
3100.00	11.30	29.56	3055.43	402.66	228.34	462.90	0.00	0.00	0.00	0.00
3200.00	11.30	29.56	3153.49	419.71	238.00	482.49	0.00	0.00	0.00	0.00
3300.00	11.30	29.56	3251.55	436.75	247.67	502.09	0.00	0.00	0.00	0.00
3400.00	11.30	29.56	3349.61	453.80	257.33	521.68	0.00	0.00	0.00	0.00
3500.00	11.30	29.56	3447.67	470.84	267.00	541.28	0.00	0.00	0.00	0.00
3600.00	11.30	29.56	3545.74	487.89	276.67	560.87	0.00	0.00	0.00	0.00
3700.00	11.30	29.56	3643.80	504.93	286.33	580.47	0.00	0.00	0.00	0.00
3800.00	11.30	29.56	3741.86	521.98	296.00	600.06	0.00	0.00	0.00	0.00
3900.00	11.30	29.56	3839.92	539.02	305.66	619.66	0.00	0.00	0.00	0.00
4000.00	11.30	29.56	3937.98	556.07	315.33	639.26	0.00	0.00	0.00	0.00
4036.36	11.30	29.56	3973.63	562.27	318.84	646.38	0.00	0.00	0.00	0.00

**Section 4 : Start Drop -2.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4100.00	10.03	29.56	4036.18	572.51	324.65	658.16	2.00	-2.00	0.00	180.00
4108.96	9.85	29.56	4045.00	573.86	325.42	659.70	2.00	-2.00	0.00	-180.00
4200.00	8.03	29.56	4134.93	586.16	332.39	673.85	2.00	-2.00	0.00	180.00
4300.00	6.03	29.56	4234.18	596.80	338.43	686.08	2.00	-2.00	0.00	180.00
4400.00	4.03	29.56	4333.79	604.43	342.75	694.84	2.00	-2.00	0.00	180.00
4451.31	3.00	29.56	4385.00	607.16	344.30	697.99	2.00	-2.00	0.00	-180.00
4500.00	2.03	29.56	4433.64	609.02	345.36	700.13	2.00	-2.00	0.00	180.00
4601.38	0.00	29.56	4535.00	610.58	346.24	701.92	2.00	-2.00	0.00	-180.00

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4700.00	0.00	29.56	4633.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
4800.00	0.00	29.56	4733.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
4900.00	0.00	29.56	4833.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5000.00	0.00	29.56	4933.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5100.00	0.00	29.56	5033.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5200.00	0.00	29.56	5133.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56



# Ryan Energy Technologies Planning Report



<b>Company:</b> Dominion E & P <b>Field:</b> Natural Buttes Field <b>Site:</b> RBU 16-20F <b>Well:</b> RBU 16-20F <b>Wellpath:</b> 1	<b>Date:</b> 12/16/2005 <b>Time:</b> 12:42:03 <b>Co-ordinate(N/E) Reference:</b> RBU 16-20F, True North <b>Vertical (TVD) Reference:</b> KB @ 5185' 0.0 <b>Section (VS) Reference:</b> Site (0.00N,0.00E,29.56Azi) <b>Plan:</b> Plan #1
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**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5300.00	0.00	29.56	5233.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5400.00	0.00	29.56	5333.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5500.00	0.00	29.56	5433.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5501.38	0.00	29.56	5435.00	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5600.00	0.00	29.56	5533.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5700.00	0.00	29.56	5633.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5800.00	0.00	29.56	5733.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
5900.00	0.00	29.56	5833.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6000.00	0.00	29.56	5933.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6100.00	0.00	29.56	6033.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6200.00	0.00	29.56	6133.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6300.00	0.00	29.56	6233.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6400.00	0.00	29.56	6333.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6500.00	0.00	29.56	6433.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6600.00	0.00	29.56	6533.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6676.38	0.00	29.56	6610.00	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6700.00	0.00	29.56	6633.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6800.00	0.00	29.56	6733.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
6900.00	0.00	29.56	6833.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7000.00	0.00	29.56	6933.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7100.00	0.00	29.56	7033.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7200.00	0.00	29.56	7133.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7300.00	0.00	29.56	7233.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7400.00	0.00	29.56	7333.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7500.00	0.00	29.56	7433.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7501.38	0.00	29.56	7435.00	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7600.00	0.00	29.56	7533.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7700.00	0.00	29.56	7633.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7800.00	0.00	29.56	7733.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
7900.00	0.00	29.56	7833.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
8000.00	0.00	29.56	7933.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
8100.00	0.00	29.56	8033.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
8200.00	0.00	29.56	8133.62	610.58	346.24	701.92	0.00	0.00	0.00	29.56
8266.38	0.00	29.56	8200.00	610.58	346.24	701.92	0.00	0.00	0.00	29.56

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	29.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	29.56	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	29.56	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	29.56	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	29.56	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	29.56	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	29.56	550.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
600.00	1.50	29.56	599.99	0.57	0.32	0.65	3.00	3.00	0.00	
700.00	4.50	29.56	699.85	5.12	2.90	5.89	3.00	3.00	0.00	
800.00	7.50	29.56	799.29	14.21	8.06	16.34	3.00	3.00	0.00	
900.00	10.50	29.56	898.04	27.82	15.78	31.98	3.00	3.00	0.00	
926.68	11.30	29.56	924.24	32.21	18.26	37.03	3.00	3.00	0.00	
1000.00	11.30	29.56	996.14	44.71	25.35	51.39	0.00	0.00	0.00	
1100.00	11.30	29.56	1094.20	61.75	35.02	70.99	0.00	0.00	0.00	
1200.00	11.30	29.56	1192.26	78.80	44.68	90.58	0.00	0.00	0.00	
1300.00	11.30	29.56	1290.33	95.84	54.35	110.18	0.00	0.00	0.00	
1400.00	11.30	29.56	1388.39	112.89	64.01	129.77	0.00	0.00	0.00	
1500.00	11.30	29.56	1486.45	129.93	73.68	149.37	0.00	0.00	0.00	
1600.00	11.30	29.56	1584.51	146.98	83.35	168.97	0.00	0.00	0.00	
1700.00	11.30	29.56	1682.57	164.02	93.01	188.56	0.00	0.00	0.00	
1800.00	11.30	29.56	1780.63	181.07	102.68	208.16	0.00	0.00	0.00	



# Ryan Energy Technologies Planning Report



<b>Company:</b> Dominion E & P	<b>Date:</b> 12/16/2005	<b>Time:</b> 12:42:03	<b>Page:</b> 4
<b>Field:</b> Natural Buttes Field	<b>Co-ordinate(NE) Reference:</b> RBU 16-20F, True North		
<b>Site:</b> RBU 16-20F	<b>Vertical (TVD) Reference:</b> KB @ 5185' 0.0		
<b>Well:</b> RBU 16-20F	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,29.56Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b>	<b>Plan #1</b>	

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1900.00	11.30	29.56	1878.69	198.12	112.34	227.75	0.00	0.00	0.00	
2000.00	11.30	29.56	1976.75	215.16	122.01	247.35	0.00	0.00	0.00	
2100.00	11.30	29.56	2074.82	232.21	131.68	266.94	0.00	0.00	0.00	
2200.00	11.30	29.56	2172.88	249.25	141.34	286.54	0.00	0.00	0.00	
2300.00	11.30	29.56	2270.94	266.30	151.01	306.13	0.00	0.00	0.00	
2400.00	11.30	29.56	2369.00	283.34	160.67	325.73	0.00	0.00	0.00	
2500.00	11.30	29.56	2467.06	300.39	170.34	345.32	0.00	0.00	0.00	
2600.00	11.30	29.56	2565.12	317.43	180.01	364.92	0.00	0.00	0.00	
2700.00	11.30	29.56	2663.18	334.48	189.67	384.51	0.00	0.00	0.00	
2800.00	11.30	29.56	2761.24	351.52	199.34	404.11	0.00	0.00	0.00	
2900.00	11.30	29.56	2859.31	368.57	209.00	423.71	0.00	0.00	0.00	
3000.00	11.30	29.56	2957.37	385.62	218.67	443.30	0.00	0.00	0.00	
3100.00	11.30	29.56	3055.43	402.66	228.34	462.90	0.00	0.00	0.00	
3200.00	11.30	29.56	3153.49	419.71	238.00	482.49	0.00	0.00	0.00	
3300.00	11.30	29.56	3251.55	436.75	247.67	502.09	0.00	0.00	0.00	
3400.00	11.30	29.56	3349.61	453.80	257.33	521.68	0.00	0.00	0.00	
3500.00	11.30	29.56	3447.67	470.84	267.00	541.28	0.00	0.00	0.00	
3600.00	11.30	29.56	3545.74	487.89	276.67	560.87	0.00	0.00	0.00	
3700.00	11.30	29.56	3643.80	504.93	286.33	580.47	0.00	0.00	0.00	
3800.00	11.30	29.56	3741.86	521.98	296.00	600.06	0.00	0.00	0.00	
3900.00	11.30	29.56	3839.92	539.02	305.66	619.66	0.00	0.00	0.00	
4000.00	11.30	29.56	3937.98	556.07	315.33	639.26	0.00	0.00	0.00	
4036.36	11.30	29.56	3973.63	562.27	318.84	646.38	0.00	0.00	0.00	
4100.00	10.03	29.56	4036.18	572.51	324.65	658.16	2.00	-2.00	0.00	
4108.96	9.85	29.56	4045.00	573.86	325.42	659.70	2.00	-2.00	0.00	Wasatch Tongue
4200.00	8.03	29.56	4134.93	586.16	332.39	673.85	2.00	-2.00	0.00	
4300.00	6.03	29.56	4234.18	596.80	338.43	686.08	2.00	-2.00	0.00	
4400.00	4.03	29.56	4333.79	604.43	342.75	694.84	2.00	-2.00	0.00	
4451.31	3.00	29.56	4385.00	607.16	344.30	697.99	2.00	-2.00	0.00	Green River Tongue
4500.00	2.03	29.56	4433.64	609.02	345.36	700.13	2.00	-2.00	0.00	
4601.38	0.00	29.56	4535.00	610.58	346.24	701.92	2.00	-2.00	0.00	Wasatch
4700.00	0.00	29.56	4633.62	610.58	346.24	701.92	0.00	0.00	0.00	
4800.00	0.00	29.56	4733.62	610.58	346.24	701.92	0.00	0.00	0.00	
4900.00	0.00	29.56	4833.62	610.58	346.24	701.92	0.00	0.00	0.00	
5000.00	0.00	29.56	4933.62	610.58	346.24	701.92	0.00	0.00	0.00	
5100.00	0.00	29.56	5033.62	610.58	346.24	701.92	0.00	0.00	0.00	
5200.00	0.00	29.56	5133.62	610.58	346.24	701.92	0.00	0.00	0.00	
5300.00	0.00	29.56	5233.62	610.58	346.24	701.92	0.00	0.00	0.00	
5400.00	0.00	29.56	5333.62	610.58	346.24	701.92	0.00	0.00	0.00	
5500.00	0.00	29.56	5433.62	610.58	346.24	701.92	0.00	0.00	0.00	
5501.38	0.00	29.56	5435.00	610.58	346.24	701.92	0.00	0.00	0.00	Chapita Wells
5600.00	0.00	29.56	5533.62	610.58	346.24	701.92	0.00	0.00	0.00	
5700.00	0.00	29.56	5633.62	610.58	346.24	701.92	0.00	0.00	0.00	
5800.00	0.00	29.56	5733.62	610.58	346.24	701.92	0.00	0.00	0.00	
5900.00	0.00	29.56	5833.62	610.58	346.24	701.92	0.00	0.00	0.00	
6000.00	0.00	29.56	5933.62	610.58	346.24	701.92	0.00	0.00	0.00	
6100.00	0.00	29.56	6033.62	610.58	346.24	701.92	0.00	0.00	0.00	
6200.00	0.00	29.56	6133.62	610.58	346.24	701.92	0.00	0.00	0.00	
6300.00	0.00	29.56	6233.62	610.58	346.24	701.92	0.00	0.00	0.00	
6400.00	0.00	29.56	6333.62	610.58	346.24	701.92	0.00	0.00	0.00	
6500.00	0.00	29.56	6433.62	610.58	346.24	701.92	0.00	0.00	0.00	
6600.00	0.00	29.56	6533.62	610.58	346.24	701.92	0.00	0.00	0.00	
6676.38	0.00	29.56	6610.00	610.58	346.24	701.92	0.00	0.00	0.00	Uteland Buttes
6700.00	0.00	29.56	6633.62	610.58	346.24	701.92	0.00	0.00	0.00	



# Ryan Energy Technology Planning Report



<b>Company:</b> Dominion E & P	<b>Date:</b> 12/16/2005	<b>Time:</b> 12:42:03	<b>Page:</b> 5
<b>Field:</b> Natural Buttes Field	<b>Co-ordinate(NE) Reference:</b> RBU 16-20F, True North		
<b>Site:</b> RBU 16-20F	<b>Vertical (TVD) Reference:</b> east.KB @ 5185' 0.0		
<b>Well:</b> RBU 16-20F	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,29.56Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b>	<b>Plan #1</b>	

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6800.00	0.00	29.56	6733.62	610.58	346.24	701.92	0.00	0.00	0.00	
6900.00	0.00	29.56	6833.62	610.58	346.24	701.92	0.00	0.00	0.00	
7000.00	0.00	29.56	6933.62	610.58	346.24	701.92	0.00	0.00	0.00	
7100.00	0.00	29.56	7033.62	610.58	346.24	701.92	0.00	0.00	0.00	
7200.00	0.00	29.56	7133.62	610.58	346.24	701.92	0.00	0.00	0.00	
7300.00	0.00	29.56	7233.62	610.58	346.24	701.92	0.00	0.00	0.00	
7400.00	0.00	29.56	7333.62	610.58	346.24	701.92	0.00	0.00	0.00	
7500.00	0.00	29.56	7433.62	610.58	346.24	701.92	0.00	0.00	0.00	
7501.38	0.00	29.56	7435.00	610.58	346.24	701.92	0.00	0.00	0.00	Mesaverde
7600.00	0.00	29.56	7533.62	610.58	346.24	701.92	0.00	0.00	0.00	
7700.00	0.00	29.56	7633.62	610.58	346.24	701.92	0.00	0.00	0.00	
7800.00	0.00	29.56	7733.62	610.58	346.24	701.92	0.00	0.00	0.00	
7900.00	0.00	29.56	7833.62	610.58	346.24	701.92	0.00	0.00	0.00	
8000.00	0.00	29.56	7933.62	610.58	346.24	701.92	0.00	0.00	0.00	
8100.00	0.00	29.56	8033.62	610.58	346.24	701.92	0.00	0.00	0.00	
8200.00	0.00	29.56	8133.62	610.58	346.24	701.92	0.00	0.00	0.00	
8266.38	0.00	29.56	8200.00	610.58	346.24	701.92	0.00	0.00	0.00	BHL (Proposed)

**Formations**

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
4108.96	4045.00	Wasatch Tongue		0.00	0.00
4451.31	4385.00	Green River Tongue		0.00	0.00
4601.38	4535.00	Wasatch		0.00	0.00
5501.38	5435.00	Chapita Wells		0.00	0.00
6676.38	6610.00	Uteland Buttes		0.00	0.00
7501.38	7435.00	Mesaverde		0.00	0.00

**Annotation**

MD ft	TVD ft	
550.00	550.00	KOP
8266.38	8200.00	BHL (Proposed)

**SURFACE USE PLAN**

**CONDITIONS OF APPROVAL**

*Attachment for Permit to Drill*

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** RBU 16-20F  
SHL: 142' FSL & 906' FEL Section 20-10S-20E  
BHL: 750' FSL & 550' FEL Section 20-10S-20E  
Uintah County, UT

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

The tribal onsite inspection for the referenced well was conducted on Wednesday, November 9, 2005 at approximately 11:00 am. In attendance at the onsite inspection were the following individuals:

Dustin Nephi	Technician	Ute Indian Tribe–Energy & Minerals
Nicole Mortensen	Environmental Protection Spec.	Uintah & Ouray Agency - BIA
Karl Wright	Nat. Res. Prot. Spec.	Bureau of Land Management – Vernal
Ken Secrest	Field Foreman	Dominion E & P, Inc.
David Weston	Engineer	Uintah Engineering & Land Surveying
Randy Jackson	Foreman	Jackson Construction
Erik LaRose	Foreman	La Rose Construction
Don Hamilton	Agent	Buys & Associates, Inc.

1. Existing Roads:

- a. The proposed well site is located approximately 11.23 miles south of Ouray, UT.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the River Bend Unit. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal right-of-way is not anticipated for the access road or utility corridor since both are located within the existing River Bend Unit boundary.
- h. A tribal right-of-way has been submitted for the wellsite, access and pipeline disturbances on Ute Indian Tribe surface.

2. Planned Access Roads:

- a. From the existing HCU 5-28F access road an access is proposed trending northwest approximately 0.1 miles to the proposed well site. The access consists of entirely new disturbance and crosses no significant drainages.
- b. A road design plan is not anticipated at this time.
- c. The proposed access road will consist of a 24' travel surface within a 30' disturbed area across tribal lands.
- d. BLM approval to construct and utilize the proposed access road is requested with this application.
- e. A maximum grade of 10% will be maintained throughout the project with minor cuts and fills required to access the well.
- f. No turnouts are proposed since the access road is only 0.1 miles long and adequate site distance exists in all directions.
- g. No low water crossings and no culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- h. No surfacing material will come from federal or Indian lands.
- i. No gates or cattle guards are anticipated at this time.
- j. Surface disturbance and vehicular travel will be limited to the approved location access road.
- k. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).
- l. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

- a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Desert Brown to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A gas pipeline is associated with this application and is being applied for at this time. The proposed gas pipeline corridor will leave the southwest side of the well site and traverse 437' southwest to the existing pipeline corridor that services the HCU 5-28F. The pipeline crosses entirely tribal surface.
- i. The new gas pipeline will be a 4" steel surface line within a 20' wide utility corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline construction. A new pipeline length of approximately 437' is associated with this well.
- j. Dominion intends on installing the pipeline on the surface by welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. Dominion intends on connecting the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. The location and type of water supply has been addressed as number 11 within the previous drilling plan information.

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the southeast side of the pad.

- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved Dominion disposal well for disposal.
- k. **Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.**
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the southwest.
- c. The pad and road designs are consistent with BLM specification
- d. A pre-construction meeting with responsible company representative, contractors, and the Ute Tribe will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size of 355' X 200'; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- l. The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface:

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On Tribal administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- c. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the

location not needed for production facilities/operations will be recontoured to the approximate natural contours.

- d. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.
- e. Prior to reseeding the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the Ute Indian Tribe. The Ute Indian Tribe recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – Ute Indian Tribe under the management of the Bureau of Indian Affairs – Uintah and Ouray Agency, P.O. Box 130, 988 South 7500 East, Ft. Duchesne, Utah 84026, 435-722-4300.
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

- a. AIA Archaeological has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by AIA Archaeological.
- b. Alden Hamblin has conducted a paleontological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- c. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.
  - c. Materials stockpile will be located at pad corner 6 or A.

13. Operator's Representative and Certification

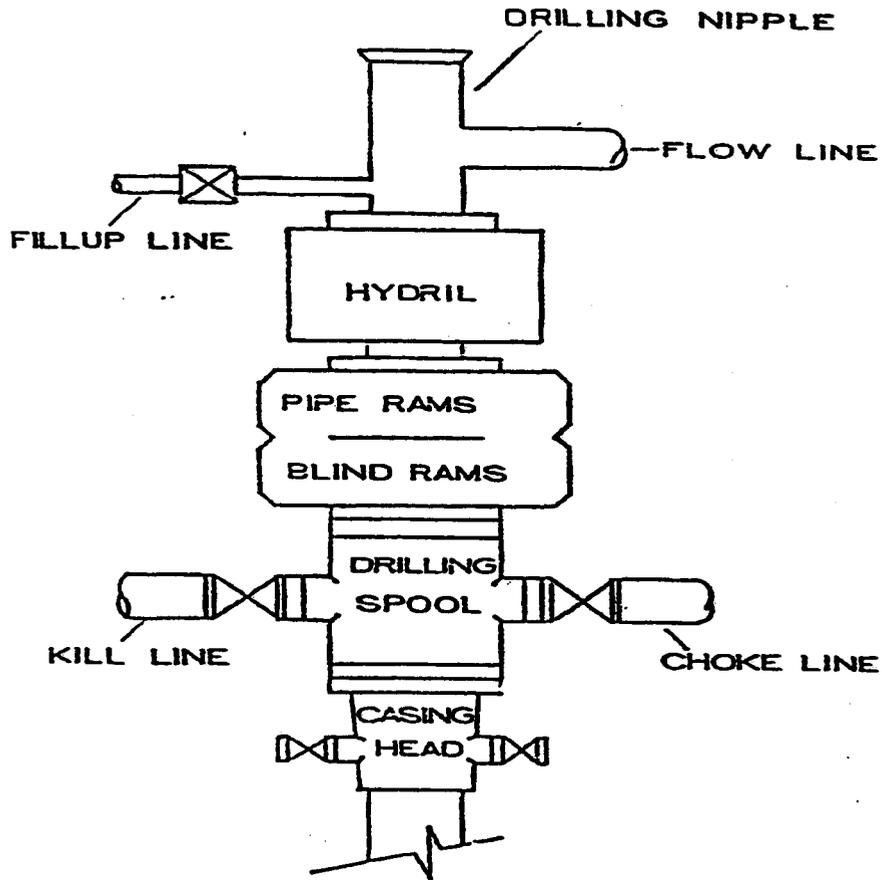
<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Roosevelt)	Ken Secrest	1-435-722-4521
Company Representative (Oklahoma)	Carla Christian	1-405-749-5263
Agent for Dominion	Don Hamilton	1-435-637-4075

Certification:

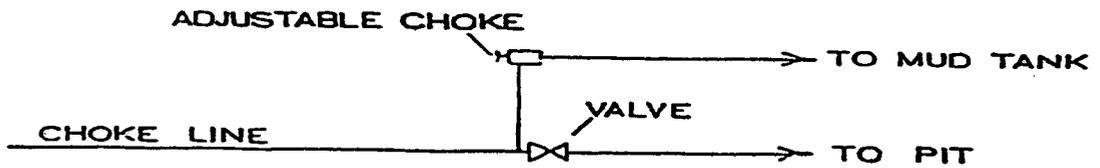
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exists; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Dominion Exploration & Production, Inc. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Dominion's BLM bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: Don Hamilton Date: 12-20-05

BOP STACK - 3000#



CHOKER MANIFOLD - 3000#



**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well

Oil  Gas

CONFIDENTIAL

2. Name of Operator

Dominion Exploration & Production, Inc.

3. Address and Telephone No.

14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 703' FSL, 2,143' FEL, SW/4 SE/4, Section 20, T10S, R20E, SLB&M  
Target: 750' FSL, 550' FEL, SE/4 SE/4, Section 20, T10S, R20E, SLB&M

5. Lease Designation and Serial No.  
U-0143520A

6. If Indian, Allottee or Tribe Name  
Ute Indian Tribe

7. If Unit or CA, Agreement Designation  
River Bend Unit

8. Well Name and No.  
RBU 16-20F

9. API Well No.  
43-047-35467

10. Field and Pool, or Exploratory Area  
Natural Buttes

11. County or Parish, State  
Uintah, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

- Change of Name
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Relocation of SHL to vertical

- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**Dominion Exploration & Production, Inc. requests permission to relocate the surface location for the referenced well following approval of the previously submitted APD to a closer directional wellsite. Following is the updated location for the RBU 16-20F**

*Surf 612634X 4420151Y 39.925865 -109.681961*

**Surface: 142' FSL & 906' FEL, SE/4 SE/4, Section 20, T10S, R20E, SLB&M**

**Target: 750' FSL & 550' FEL, SE/4 SE/4, Section 20, T10S, R20E, SLB&M**

*BHU 612736X 39.927535  
4420338Y -109.680735*

**Attached please find an updated Form 3, plat package, drilling plan and surface use plan to replace those previously approved within the federal and state approval documents.**

A request for exception to spacing (R649-3-11) is hereby requested based on topography since the well is located within 460' of the drilling unit boundary. Dominion Exploration & Production, Inc. is the only owner and operator within 460' of the proposed well and all points along the intended well bore path.

COPY SENT TO OPERATOR

Date: 1-10-06  
Initials: CHD

14. I hereby certify that the foregoing is true and correct

Signed Don Hamilton Don Hamilton Title Agent for Dominion

Date December 20, 2005

(This space for Federal or State Office Use)

Approved by Bradley G. Hill Title ENVIRONMENTAL SCIENTIST III

Conditions of approval, if any

12-28-05 **FILE COPY**

**RECEIVED**

**DEC 23 2005**

Title 18 U.S.C. Section 1001, makes 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.

**Federal Approval of this  
Action is Necessary**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

142' FSL & 906' FEL, SE SE Sec. 20-10S-20E

5. Lease Serial No.

U-0143520-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

River Bend Unit

8. Well Name and No.

RBU 16-20F

9. API Well No.

43-047-35467

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other
			Extension of APD.

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The State APD for this wells expires February 8, 2006. Dominion is hereby requesting a one year extension.

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 02-02-06  
By: *[Signature]*

COPY SENT TO OPERATOR  
Date: 02-09-06  
Initials: CJD

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Carla Christian

Title Regulatory Specialist

Signature

*Carla Christian*

Date 1/30/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes 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.

RECEIVED

FEB 01 12 2006

DIAGNOSTIC GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-35467  
**Well Name:** RBU 16-20F  
**Location:** Section 20-10S-20E, 142' FSL & 906' FEL  
**Company Permit Issued to:** Dominion Exploration & Production, Inc.  
**Date Original Permit Issued:** 2/10/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

Carla Christian  
Signature

1/30/2006  
Date

Title: Regulatory Specialist

Representing: Dominion Exploration & Production, Inc.

RECEIVED

FEB 01 2006

DIV. OF OIL, GAS & MINING



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 13, 2007

Dominion Expl & Prod Inc.  
14000 Quail Springs Parkway  
Oklahoma City, OK 73134

Re: APD Rescinded -RBU 16-20F Sec. 20 T. 10 R. 20E  
Uintah County, Utah API No. 43-047-35467

Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on February 10, 2004. On February 8, 2005 and February 2, 2006 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective March 13, 2007.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal