

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>
<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> BONANZA 1023-6B4CS
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES
<b>4. TYPE OF WELL</b> Gas Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.						<b>7. OPERATOR PHONE</b> 720 929-6007
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217						<b>9. OPERATOR E-MAIL</b> Kathy.SchneebeckDulnoan@anadarko.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU33433			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
LOCATION AT SURFACE	432 FNL 2518 FEL	NWNE	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1133 FNL 1925 FEL	NWNE	6	10.0 S	23.0 E	S
At Total Depth	1133 FNL 1925 FEL	NWNE	6	10.0 S	23.0 E	S
<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1133		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1923		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 698		<b>26. PROPOSED DEPTH</b> MD: 8727 TVD: 8586		
<b>27. ELEVATION - GROUND LEVEL</b> 5228		<b>28. BOND NUMBER</b> WYB000291		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Permit #43-8496		
<b>ATTACHMENTS</b>						
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
<b>NAME</b> Gina Becker		<b>TITLE</b> Regulatory Analyst II		<b>PHONE</b> 720 929-6086		
<b>SIGNATURE</b>		<b>DATE</b> 12/27/2010		<b>EMAIL</b> gina.becker@anadarko.com		
<b>API NUMBER ASSIGNED</b> 43047514320000		<b>APPROVAL</b>  Permit Manager				

<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	4.5	0	8727		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade I-80 Buttress	0	11.6			

<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	11	8.625	0	2160		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 LT&C	0	28.0			

## Kerr-McGee Oil & Gas Onshore. L.P.

API #

**BONANZA 1023-6B4CS**

Surface:	432 FNL / 2518 FEL	NWNE	Lot 2
BHL:	1133 FNL / 1925 FEL	NWNE	Lot 2

Section 6 T10S R23E

Unitah, Utah

Mineral Lease: UTU-33433

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**  
**Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1274	
Birds Nest	1543	Water
Mahogany	1907	Water
Wasatch	4299	Gas
Mesaverde	6431	Gas
MVU2	7397	Gas
MVL1	7968	Gas
TVD	8586	
MD	8727	

3. **Pressure Control Equipment** (Schematic Attached)

*Please refer to the attached Drilling Program*

4. **Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program*

5. **Drilling Fluids Program:**

*Please refer to the attached Drilling Program*

6. **Evaluation Program:**

*Please refer to the attached Drilling Program*

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8,489' TVD, approximately equals 5,201 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,333 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

*Onshore Order #2 – Air Drilling Variance*

*Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2*

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

*This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.*

*The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.*

*More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.*

***Background***

*In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.*

*Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.*

*The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.*

*KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.*

***Variance for BOPE Requirements***

*The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.*

***Variance for Mud Material Requirements***

*Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.*

***Variance for Special Drilling Operation (surface equipment placement) Requirements***

*Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.*

*Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.*

*Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and*

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

*Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.*

*Variance for FIT Requirements*

*KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.*

***Conclusion***

*The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.*

**10. Other Information:**

*Please refer to the attached Drilling Program.*





## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,160	28.00	IJ-55	LTC	0.96	1.86	5.70
PRODUCTION	4-1/2"	0 to 8,727	11.60	I-80	BTC	2.24	1.19	3.15

\*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.49

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)  
 (Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
**MASP 3,371 psi**

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD  
 (Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
**MABHP 5,260 psi**

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
<b>Option 1</b>							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>				
<b>Option 2</b>	LEAD	1,660'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	150	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,797'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	270	10%	11.00	3.38
	TAIL	4,930'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	950	10%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

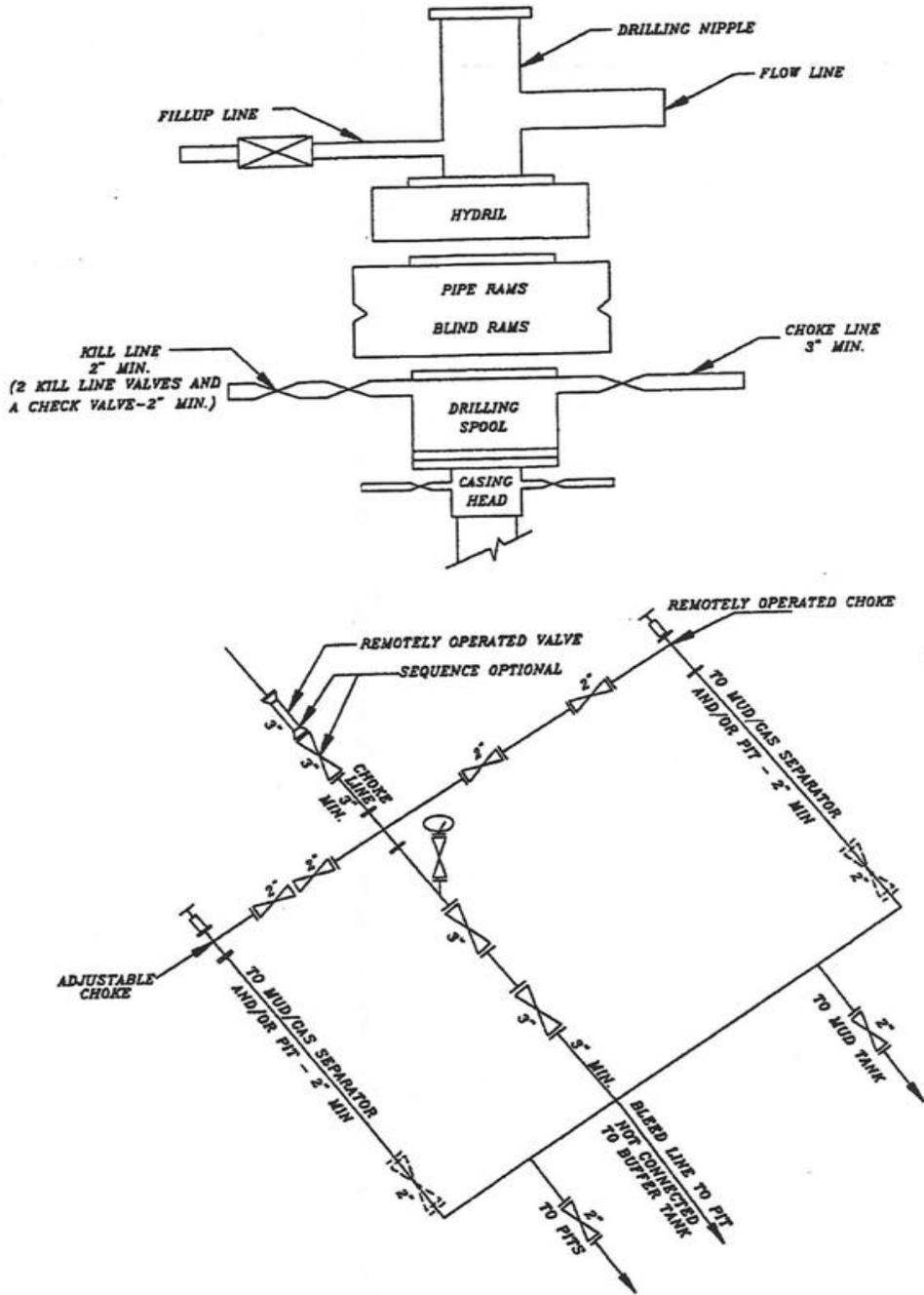
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

**DRILLING ENGINEER:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
 Emile Goodwin / Perry Daughtrey

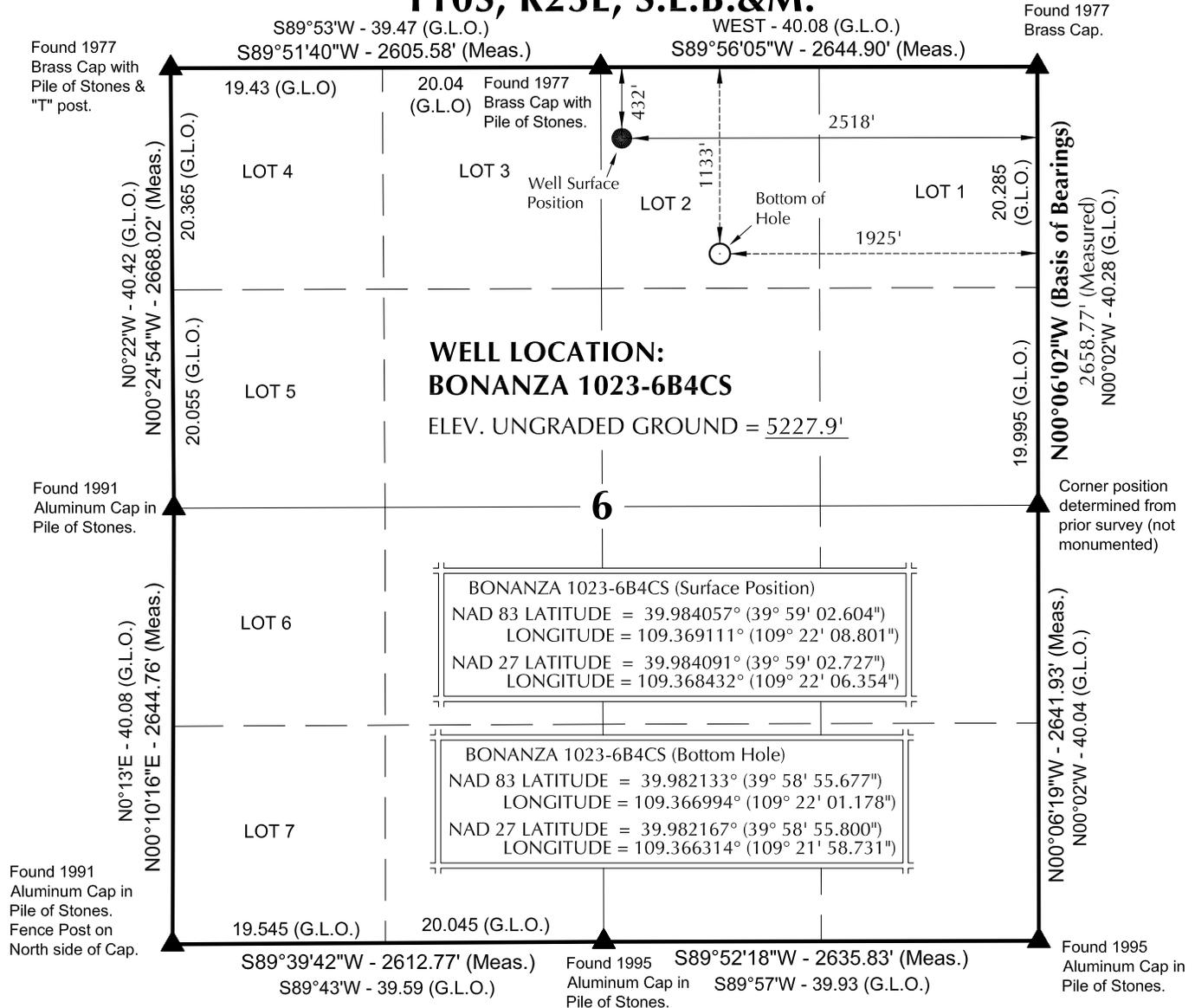
**DRILLING SUPERINTENDENT:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
 John Merkel / Lovel Young

### EXHIBIT A BONANZA 1023-6B4CS



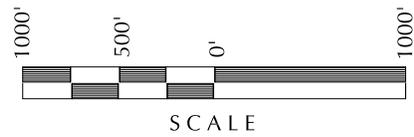
**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

# T10S, R23E, S.L.B.&M.



**NOTES:**

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. The Bottom of hole bears S40°18'57"E - 918.62' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



**SURVEYOR'S 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.

*John R. Slough*  
 PROFESSIONAL LAND SURVEYOR  
 REGISTRATION NO. 6028691  
 STATE OF UTAH

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD: BONANZA 1023-6B**

**BONANZA 1023-6B4CS**  
**WELL PLAT**  
**1133' FNL, 1925' FEL (Bottom Hole)**  
**LOT 2 OF SECTION 6, T10S, R23E,**  
**S.L.B.&M., UTAH COUNTY, UTAH.**

**609**

**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

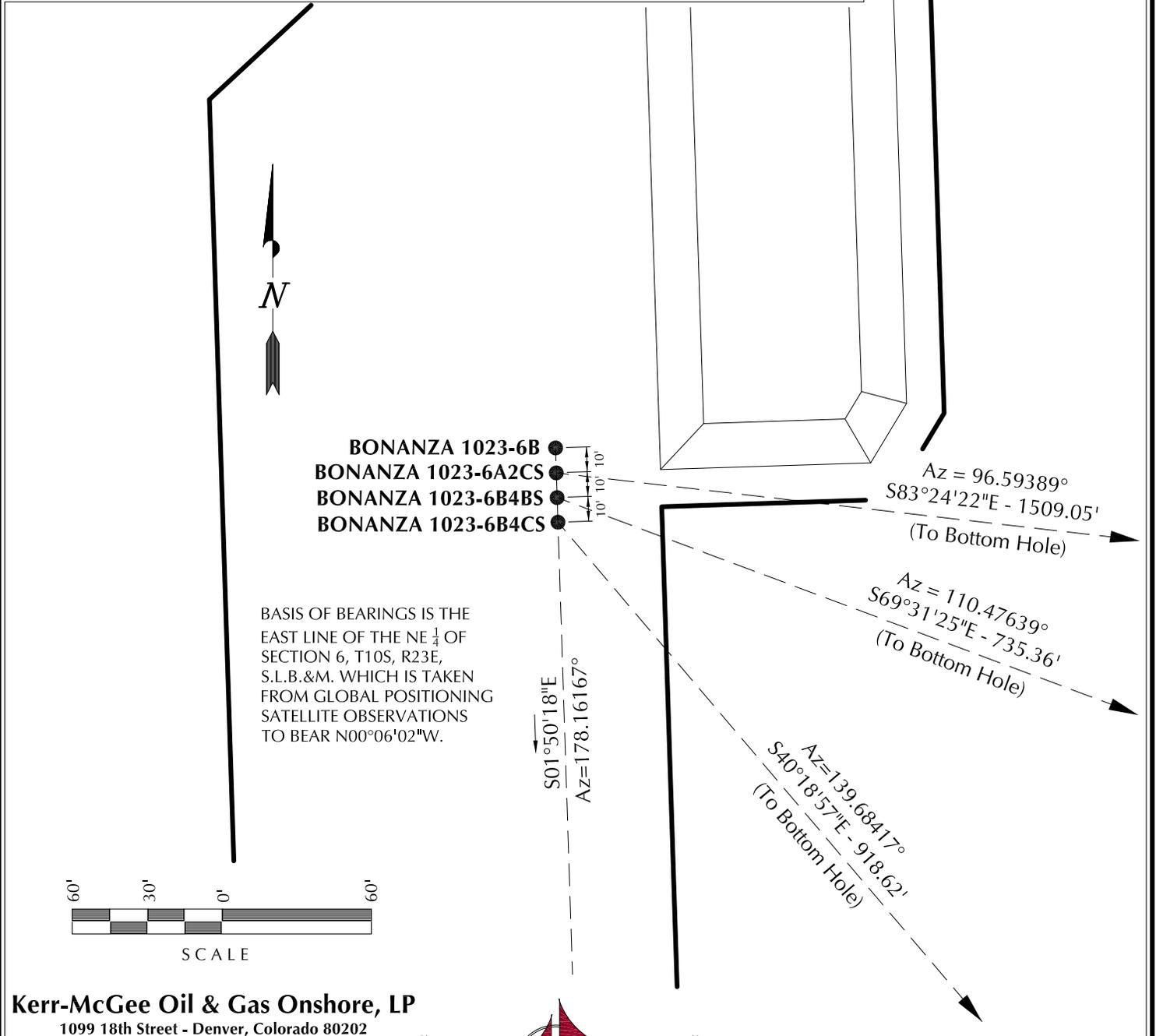
**TIMBERLINE** (435) 789-1365  
 ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-15-10	SURVEYED BY: M.S.B.	SHEET NO: <b>1</b> 1 OF 16
DATE DRAWN: 03-16-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'		Date Last Revised: 06-09-10 M.W.W.

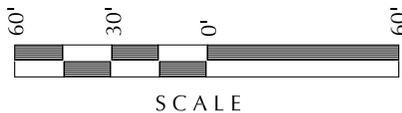
WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6B4CS	39°59'02.604"	109°22'08.801"	39°59'02.727"	109°22'06.354"	432' FNL	39°58'55.677"	109°22'01.178"	39°58'55.800"	109°21'58.731"	1133' FNL
BONANZA 1023-6B4BS	39.984057°	109.369111°	39.984091°	109.368432°	2518' FEL	39.982133°	109.366994°	39.982167°	109.366314°	1925' FEL
BONANZA 1023-6A2CS	39°59'02.702"	109°22'08.806"	39°59'02.825"	109°22'06.358"	422' FNL	39°59'00.153"	109°21'59.961"	39°59'00.276"	109°21'57.514"	680' FNL
BONANZA 1023-6B4CS	39.984084°	109.369113°	39.984118°	109.368433°	2518' FEL	39.983376°	109.366656°	39.983410°	109.365976°	1830' FEL
BONANZA 1023-6A2CS	39°59'02.800"	109°22'08.810"	39°59'02.923"	109°22'06.362"	412' FNL	39°59'01.072"	109°21'49.559"	39°59'01.195"	109°21'47.113"	587' FNL
BONANZA 1023-6A2CS	39.984111°	109.369114°	39.984145°	109.368434°	2519' FEL	39.983631°	109.363766°	39.983665°	109.363087°	1020' FEL
BONANZA 1023-6B	39°59'02.900"	109°22'08.813"	39°59'03.023"	109°22'06.366"	402' FNL					
BONANZA 1023-6B	39.984139°	109.369115°	39.984173°	109.368435°	2519' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-6B4CS	-700.4'	594.3'	BONANZA 1023-6B4BS	-257.2'	688.9'	BONANZA 1023-6A2CS	-173.3'	1,499.1'



BASIS OF BEARINGS IS THE EAST LINE OF THE NE 1/4 OF SECTION 6, T10S, R23E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°06'02\"W.



**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

**WELL PAD INTERFERENCE PLAT**  
WELLS - BONANZA 1023-6B4CS,  
BONANZA 1023-6B4BS,  
BONANZA 1023-6A2CS & BONANZA 1023-6B  
LOCATED IN SECTION 6, T10S, R23E,  
S.L.B.&M., UTAH COUNTY, UTAH.



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371 Coffeen Avenue  
Sheridan WY 82801  
Phone 307-674-0609  
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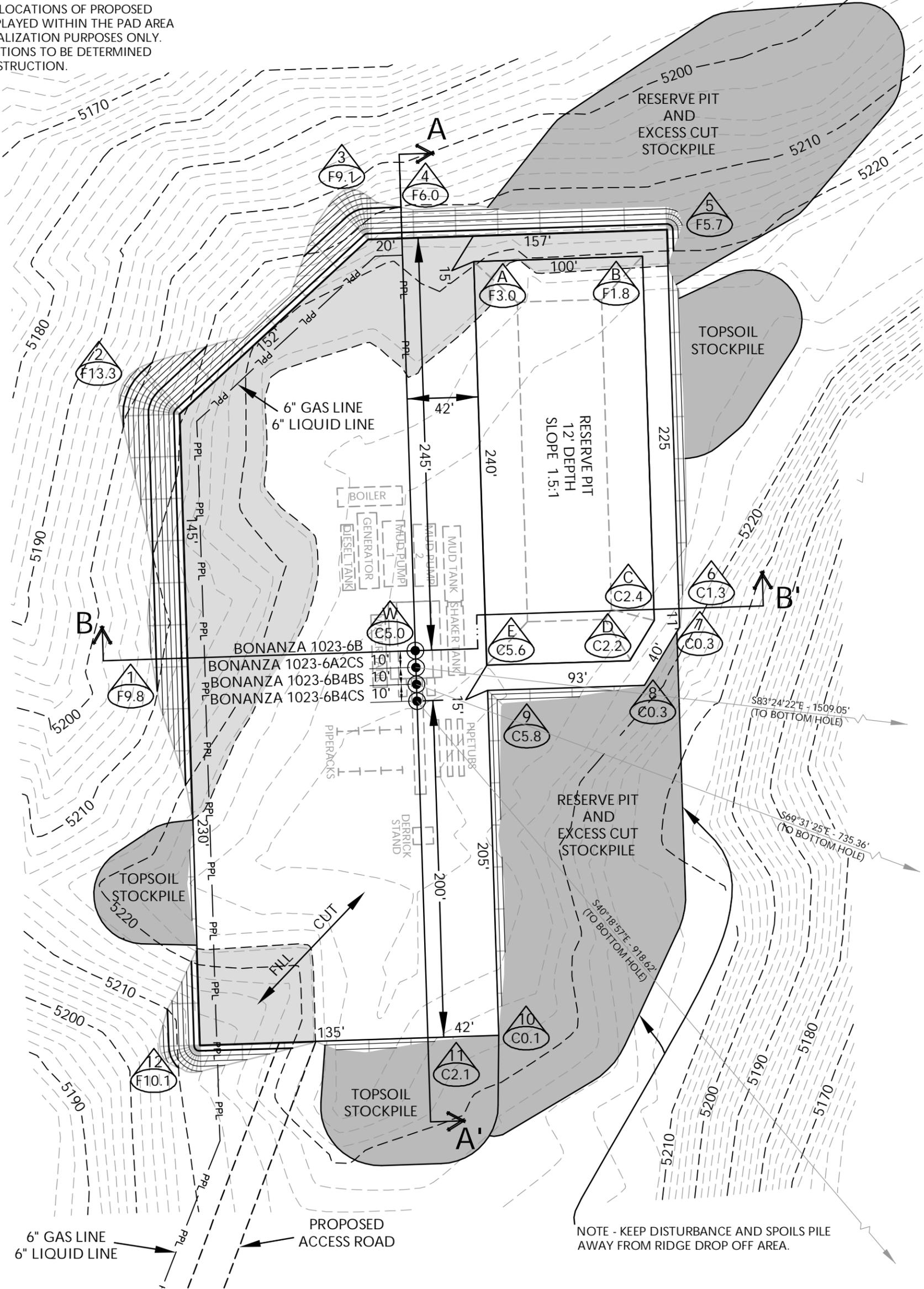
**TIMBERLINE**

ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED: 03-15-10	SURVEYED BY: M.S.B.	SHEET NO: <b>5</b>
DATE DRAWN: 03-16-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 08-04-10 M.W.W.	5 OF 16

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



**WELL PAD - BONANZA 1023-6B DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 5227.4'  
 FINISHED GRADE ELEVATION = 5222.4'  
 CUT SLOPES = 1.5:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 2.88 ACRES  
 TOTAL DAMAGE AREA = 5.62 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 10,528 C.Y.  
 TOTAL FILL FOR WELL PAD = 6,916 C.Y.  
 TOPSOIL @ 6" DEPTH = 2,324 C.Y.  
 EXCESS MATERIAL = 3,612 C.Y.

**RESERVE PIT QUANTITIES**

TOTAL CUT FOR RESERVE PIT +/- 8,100 CY  
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 30,810 BARRELS

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**WELL PAD - BONANZA 1023-6B**  
 WELL PAD - LOCATION LAYOUT  
 BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,  
 BONANZA 1023-6A2CS & BONANZA 1023-6B  
 LOCATED IN SECTION 6, T10S, R23E,  
 S.L.B.&M., UINTAH COUNTY, UTAH

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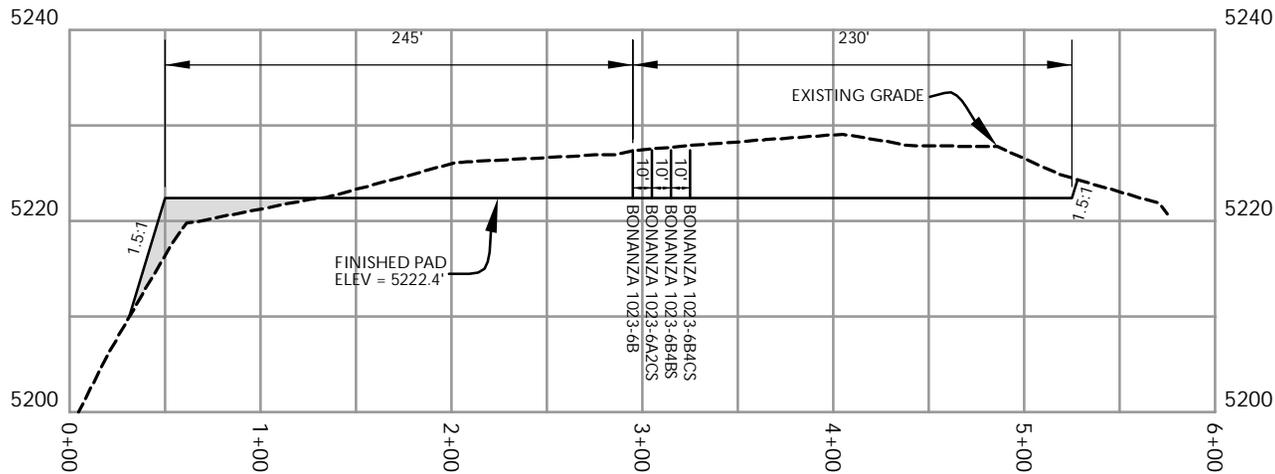
**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE

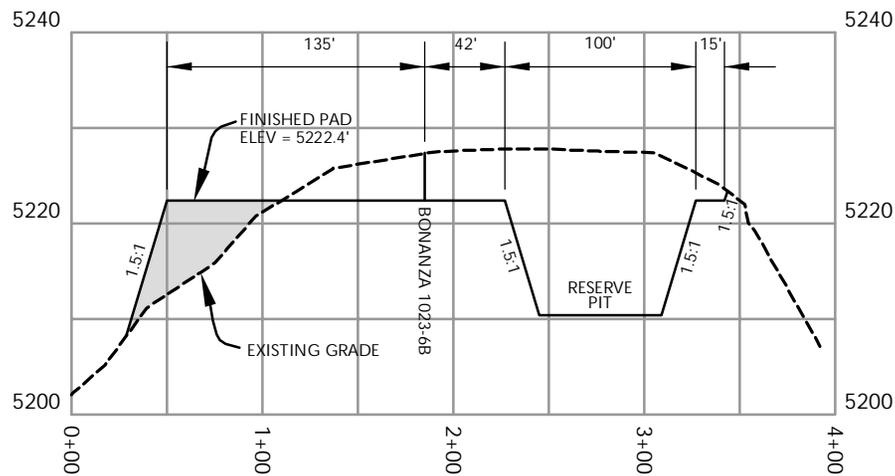


HORIZONTAL 0 30 60 1" = 60'  
 2' CONTOURS

Scale: 1"=60' Date: 4/7/10 SHEET NO: 6  
 REVISED: DJD 8/6/10 6 OF 16



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

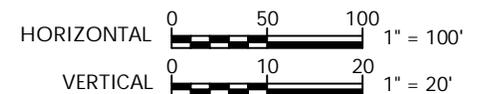
**WELL PAD - CROSS SECTIONS**  
BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,  
BONANZA 1023-6A2CS & BONANZA 1023-6B  
LOCATED IN SECTION 6, T10S, R23E,  
S.L.B.&M., Uintah County, Utah



**CONSULTING, LLC**  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**  
**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'	Date: 4/7/10
REVISED:	DJD 8/6/10

SHEET NO:

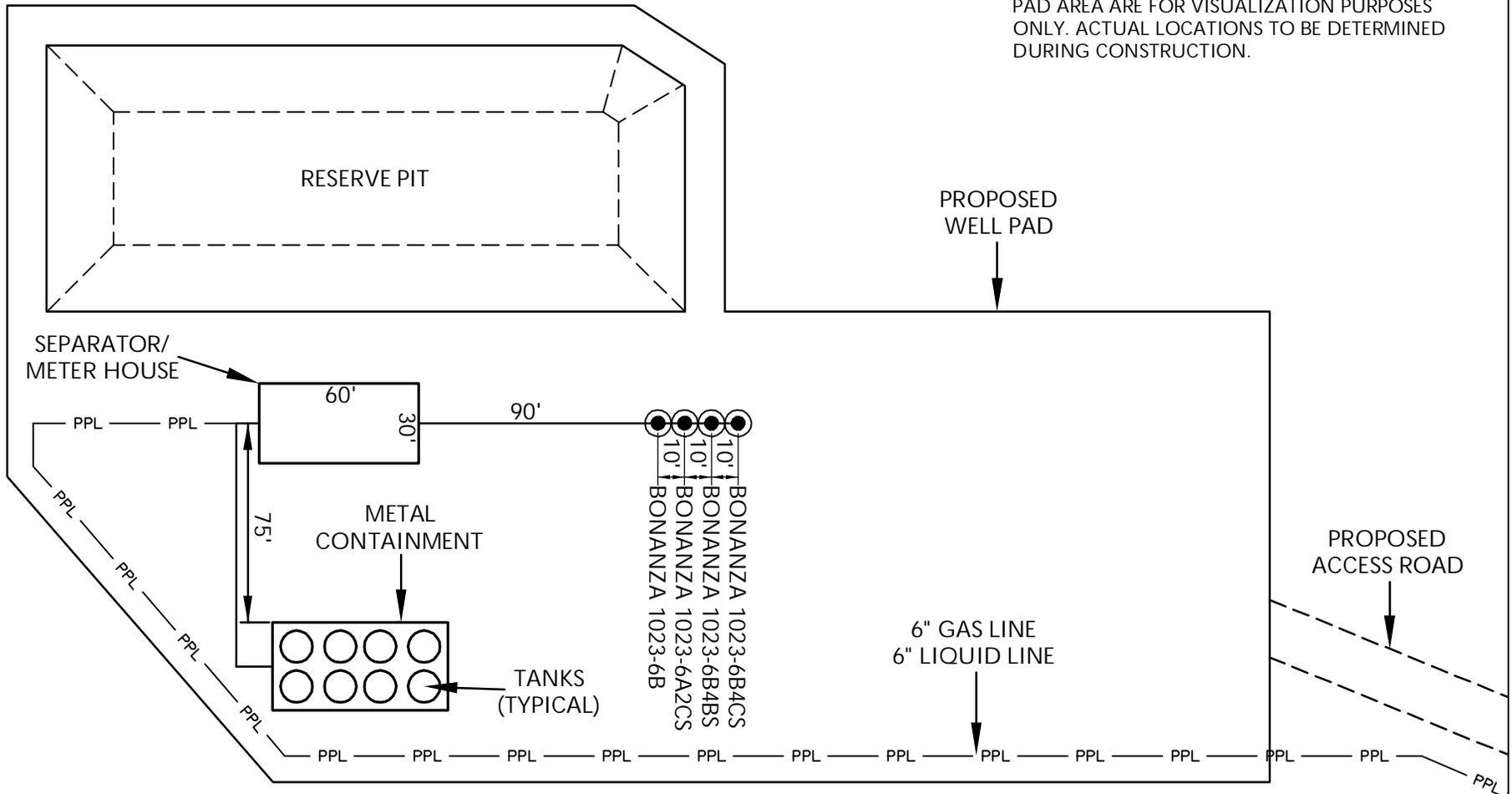
**7**

7 OF 16

'APIWellNo:43047514320000'

K:\ANADARKO\2010\_12\_BON\_FOCUS\_SEC\_6-102\3\DWG\BONANZA 1023-6B\BONANZA 1023-6B\_20100806.dwg

PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6B

WELL PAD - FACILITIES DIAGRAM  
BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,  
BONANZA 1023-6A2CS & BONANZA 1023-6B  
LOCATED IN SECTION 6, T10S, R23E,  
S.L.B.&M., Uintah County, Utah



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WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

**TIMBERLINE** (435) 789-1365  
**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 4/7/10  
REVISED: DJD 8/6/10

SHEET NO:  
**8** 8 OF 16

'APIWellNo:43047514320000'

K:\ANADARKO\2010\_12\_BON\_FOCUS\_SEC\_6-102\3\DWG\BONANZA 1023-6B\BONANZA 1023-6B\_20100806.dwg

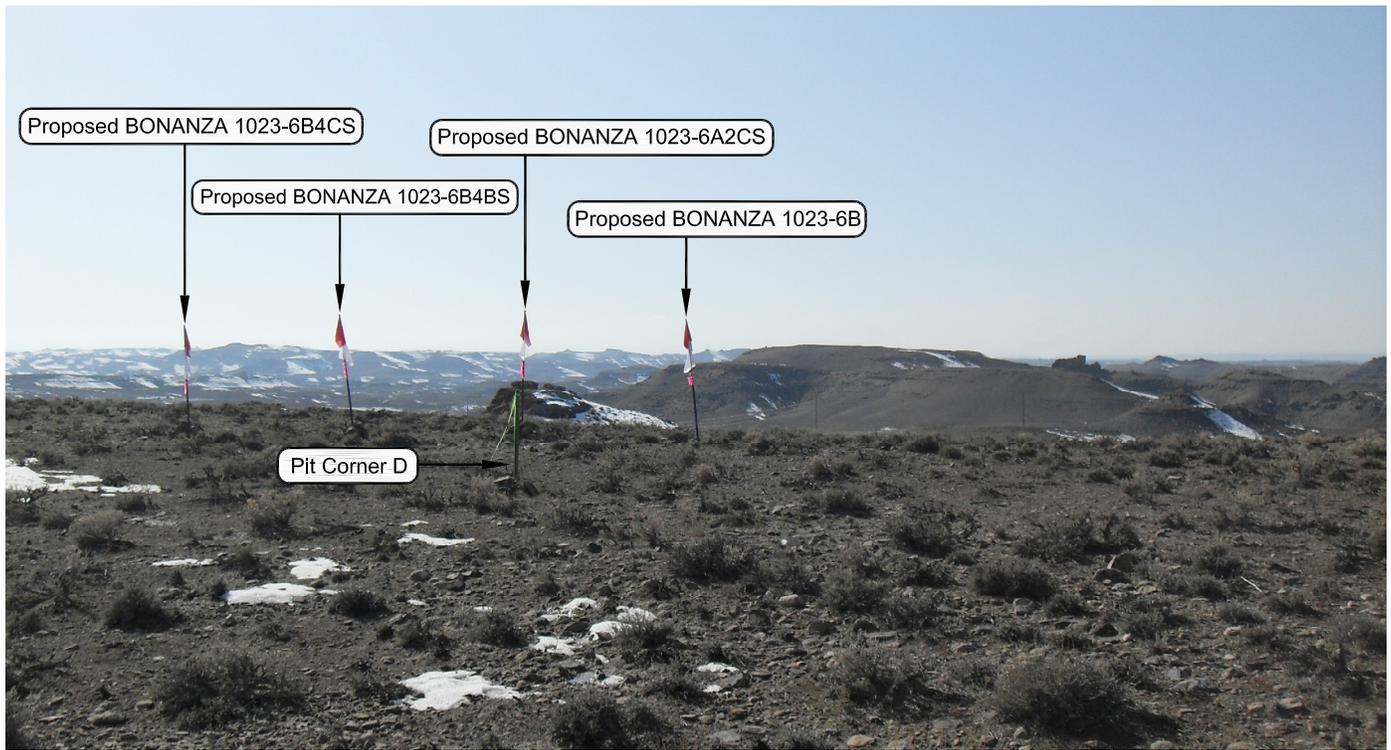


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: WESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

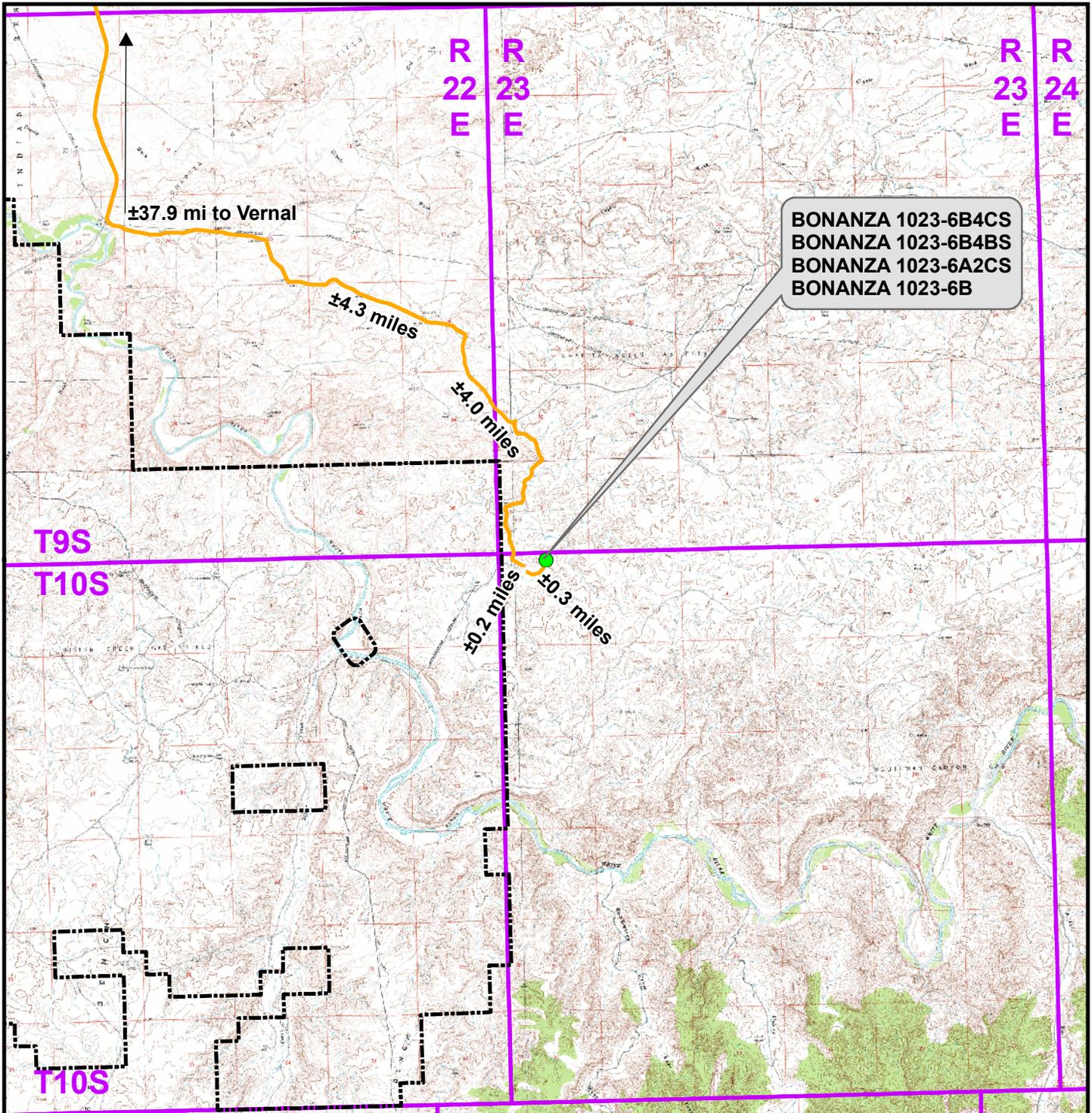
LOCATION PHOTOS  
 BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,  
 BONANZA 1023-6A2CS & BONANZA 1023-6B  
 LOCATED IN SECTION 6, T10S, R23E,  
 S.L.B.&M., UINTAH COUNTY, UTAH.



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**TIMBERLINE** (435) 789-1365  
 ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-15-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: <b>9</b> 9 OF 16
DATE DRAWN: 03-16-10	DRAWN BY: E.M.S.	
Date Last Revised: 08-04-10 M.W.W.		



BONANZA 1023-6B4CS  
 BONANZA 1023-6B4BS  
 BONANZA 1023-6A2CS  
 BONANZA 1023-6B

**Legend**

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - BONANZA 1023-6B To Unit Boundary: ±2,729ft

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

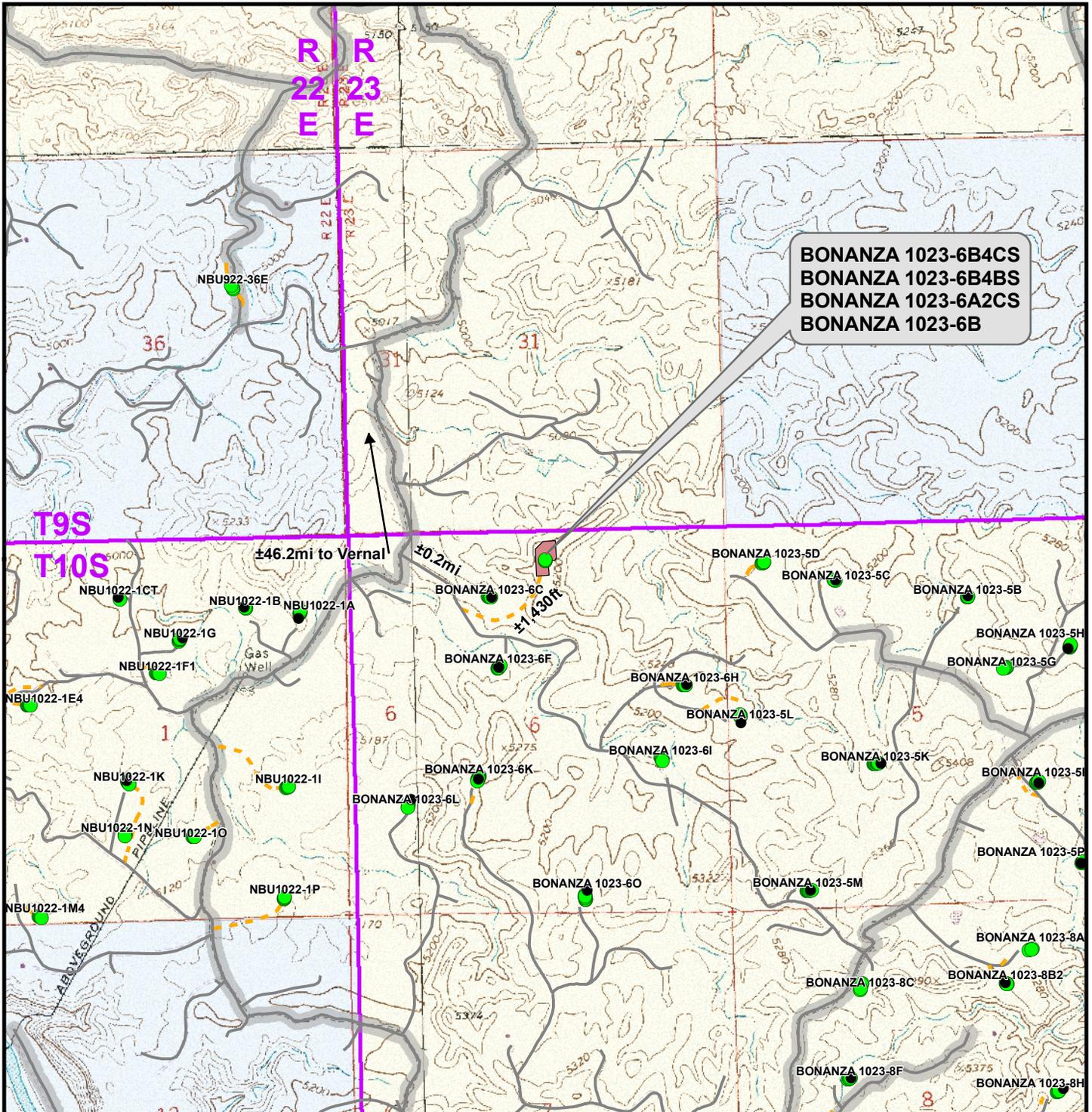
**TOPO A**  
 BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,  
 BONANZA 1023-6A2CS & BONANZA 1023-6B  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH



**CONSULTING, LLC**  
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 Sheridan, WY 82801  
 Phone (307) 674-0609  
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 13 Apr 2010	<b>10</b>
Revised: JID	Date: 6 Aug 2010	



**BONANZA 1023-6B4CS  
 BONANZA 1023-6B4BS  
 BONANZA 1023-6A2CS  
 BONANZA 1023-6B**

**Legend**

- Well - Proposed
- Well Pad
- Road - Proposed
- County Road
- Bureau of Land Management
- State
- Well - Existing
- Road - Existing
- Indian Reservation
- Private

Total Proposed Road Length: ±1,430ft

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

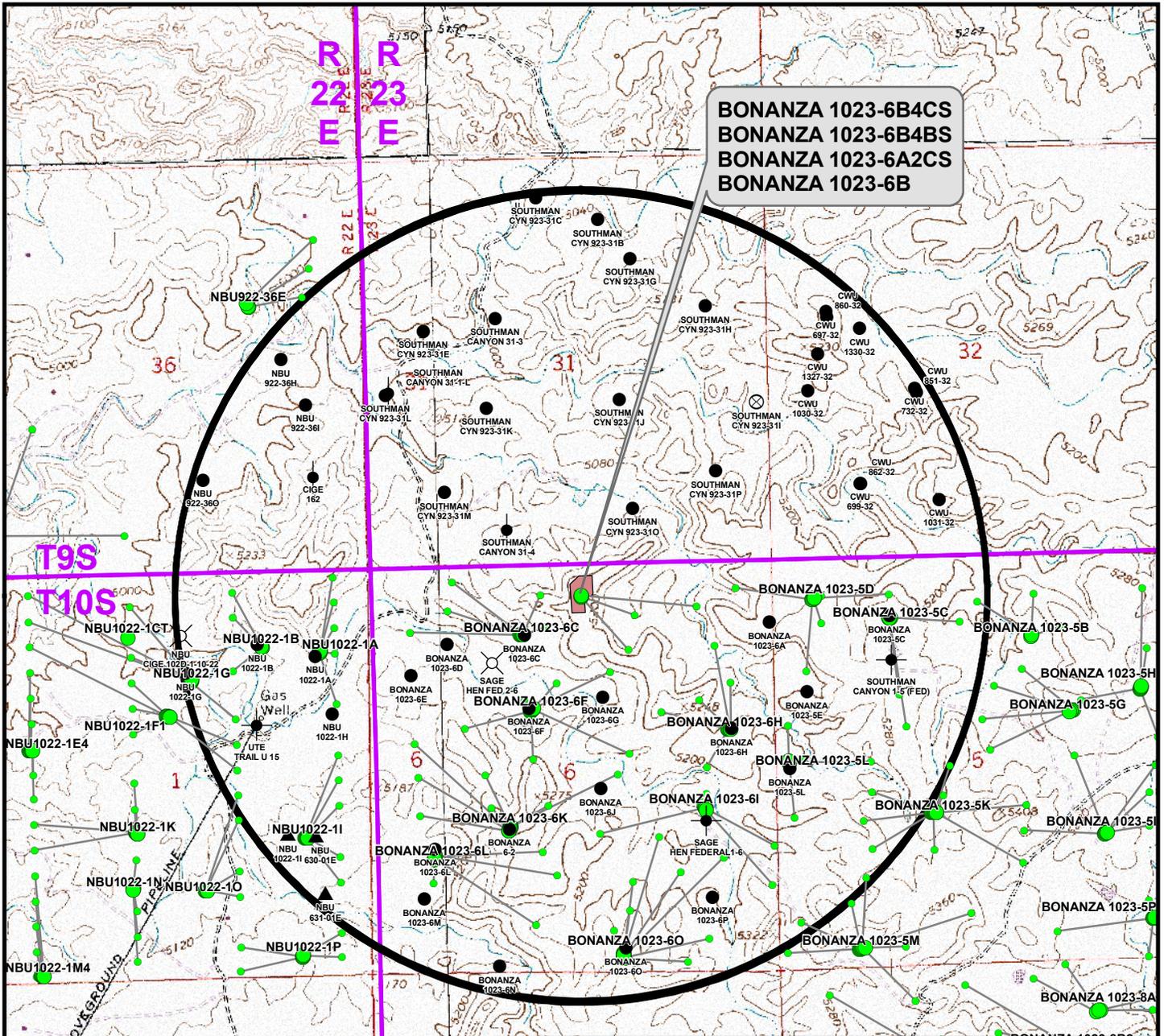
**WELL PAD - BONANZA 1023-6B**

**TOPO B**  
**BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,**  
**BONANZA 1023-6A2CS & BONANZA 1023-6B**  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
**CONSULTING, LLC**  
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 Sheridan, WY 82801  
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 Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 Apr 2010	11
Revised: JID	Date: 6 Aug 2010	
		11 of 16



**BONANZA 1023-6B4CS  
BONANZA 1023-6B4BS  
BONANZA 1023-6A2CS  
BONANZA 1023-6B**

Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-6B4CS	BONANZA 1023-6G	698ft
BONANZA 1023-6B4BS	BONANZA 1023-6G	1,147ft
BONANZA 1023-6A2CS	BONANZA 1023-6A	965ft
BONANZA 1023-6B	BONANZA 1023-6C	910ft

**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)
- Active
- Spudded (Drilling commenced; Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

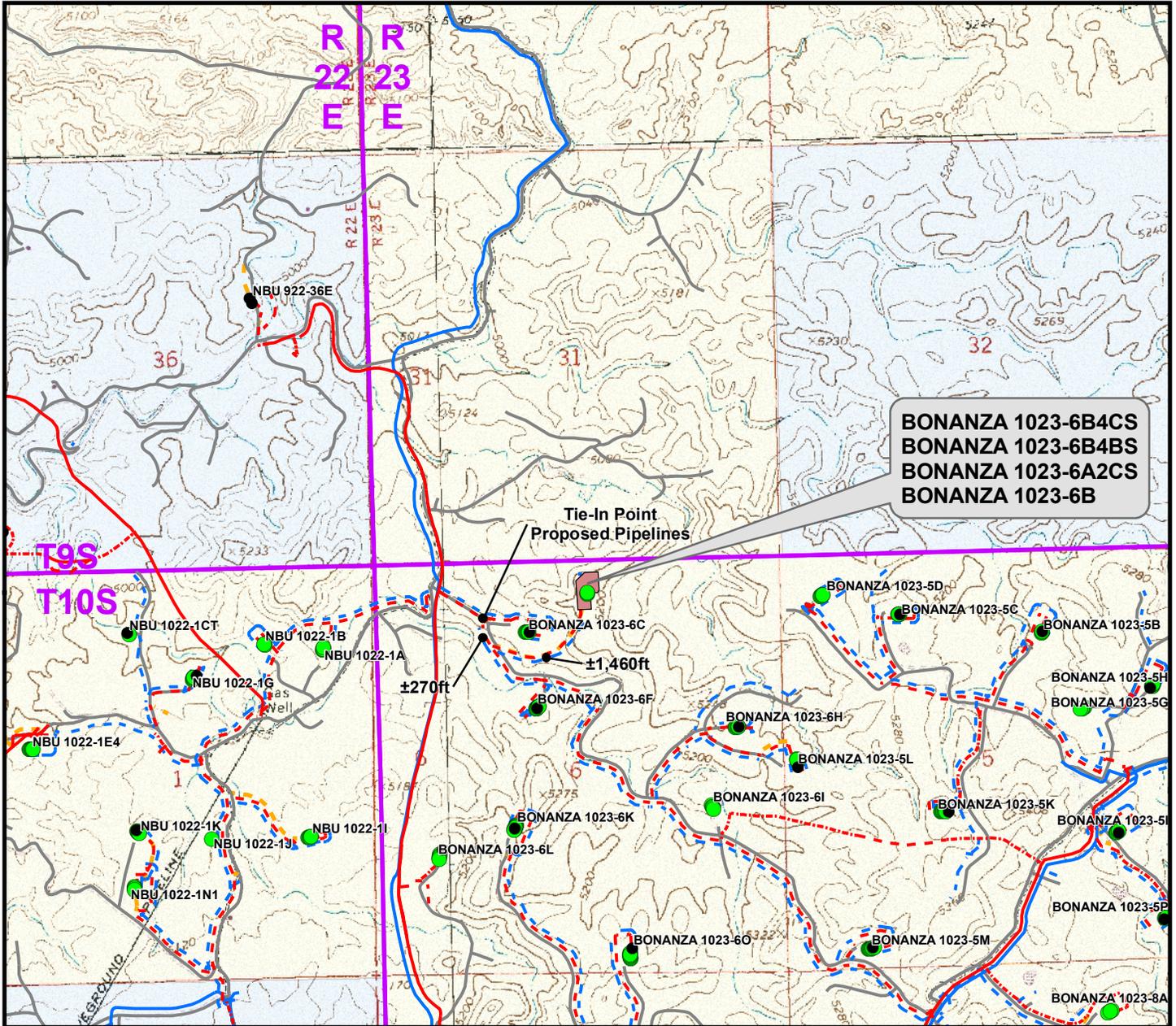
**TOPO C**  
**BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,**  
**BONANZA 1023-6A2CS & BONANZA 1023-6B**  
LOCATED IN SECTION 6, T10S, R23E  
S.L.B.&M., UINTAH COUNTY, UTAH

**609**

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Sheridan, WY 82801  
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Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 Apr 2010	<b>12</b>
Revised: JID	Date: 6 Aug 2010	



**BONANZA 1023-6B4CS  
 BONANZA 1023-6B4BS  
 BONANZA 1023-6A2CS  
 BONANZA 1023-6B**

**Tie-In Point  
 Proposed Pipelines**

Proposed Liquid Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±650ft
Proposed 6" (Edge of Pad to Road Intersection)	±1,460ft
Proposed 6" (Road Intersection to 6C Intersection)	±270ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>±2,380ft</b>

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±650ft
Proposed 6" (Edge of Pad to Proposed 16" Pipeline)	±1,460ft
Proposed 16" (Proposed 16" Pipeline to 6C Intersection)	±270ft
<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±2,380ft</b>

**Legend**

- Well - Proposed      - - - Gas Pipeline - Proposed      - - - Liquid Pipeline - Proposed      - - - Road - Proposed      Bureau of Land Management
- Well - Existing      - - - Gas Pipeline - To Be Upgraded      - - - Liquid Pipeline - To Be Upgraded      - - - Road - Existing      Indian Reservation
- Well Pad      - - - Gas Pipeline - Existing      - - - Liquid Pipeline - Existing

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

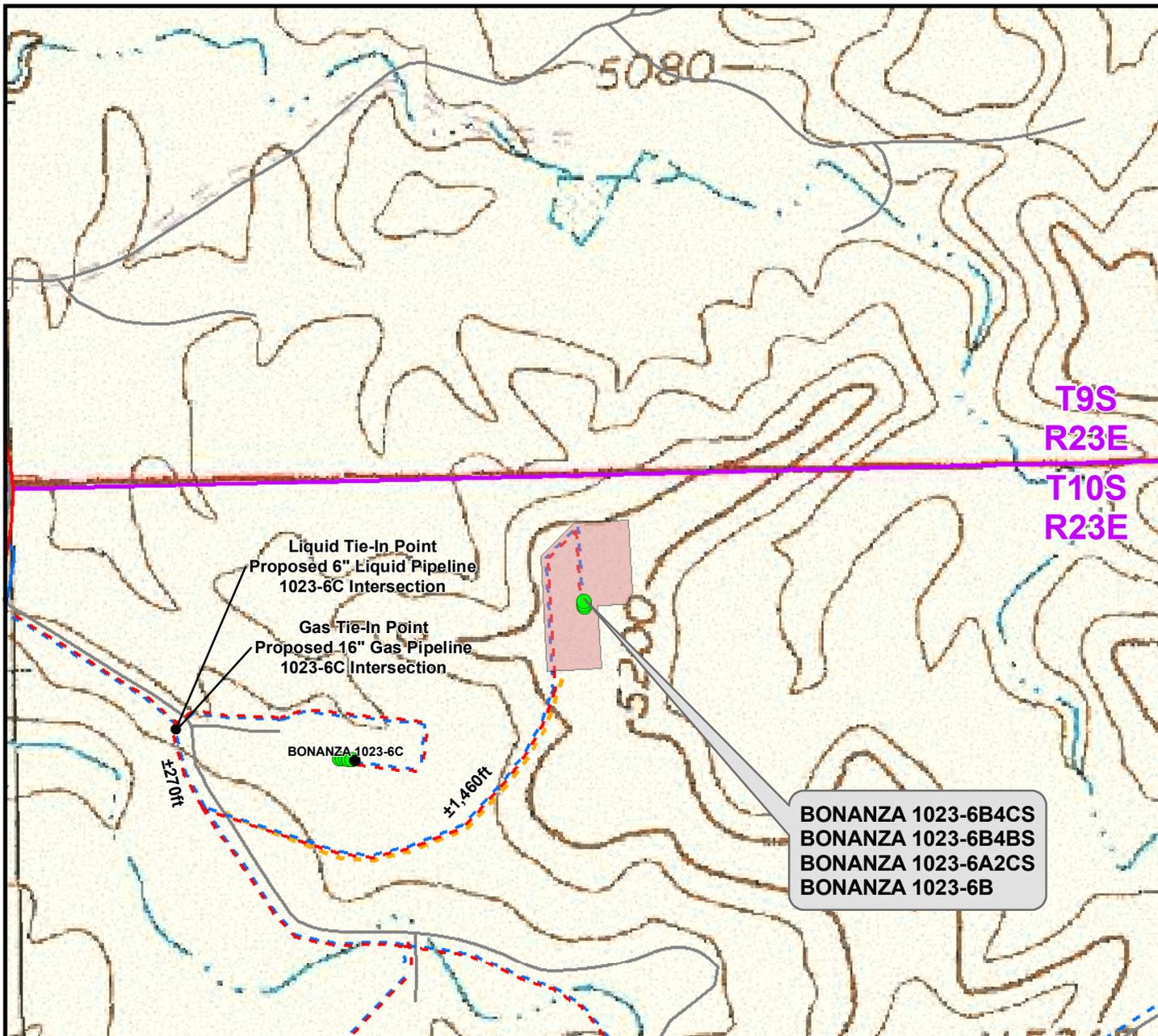
**WELL PAD - BONANZA 1023-6B**

**TOPO D**  
**BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,**  
**BONANZA 1023-6A2CS & BONANZA 1023-6B**  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 Apr 2010	<b>13</b>
Revised: CPS	Date: 15 Oct 2010	



**BONANZA 1023-6B4CS  
 BONANZA 1023-6B4BS  
 BONANZA 1023-6A2CS  
 BONANZA 1023-6B**

Proposed Liquid Pipeline		Length	Proposed Gas Pipeline		Length
Proposed 6" (Meter House to Edge of Pad)		±650ft	Proposed 6" (Meter House to Edge of Pad)		±650ft
Proposed 6" (Edge of Pad to Road Intersection)		±1,460ft	Proposed 6" (Edge of Pad to Proposed 16" Pipeline)		±1,460ft
Proposed 6" (Road Intersection to 6C Intersection)		±270ft	Proposed 16" (Proposed 16" Pipeline to 6C Intersection)		±270ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>		<b>±2,380ft</b>	<b>TOTAL PROPOSED GAS PIPELINE =</b>		<b>±2,380ft</b>

**Legend**

- Well - Proposed
- - - Gas Pipeline - Proposed
- - - Liquid Pipeline - Proposed
- - - Road - Proposed
- Bureau of Land Management
- Well - Existing
- - - Gas Pipeline - To Be Upgraded
- - - Liquid Pipeline - To Be Upgraded
- - - Road - Existing
- Indian Reservation
- Well Pad
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Existing
- State
- Private

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

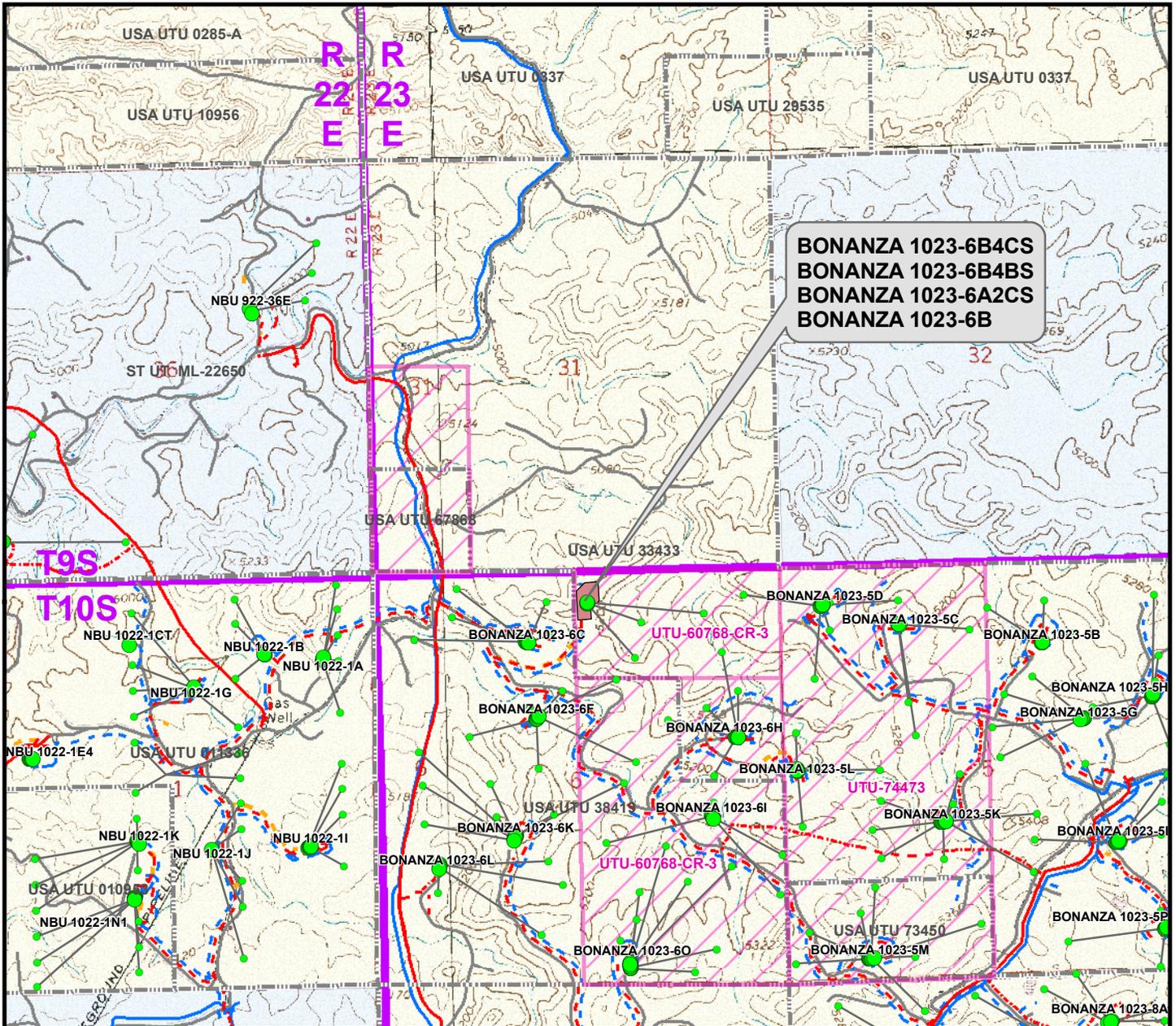
**TOPO D2 (PAD & PIPELINE DETAIL)**  
 BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,  
 BONANZA 1023-6A2CS & BONANZA 1023-6B  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

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 CONSULTING, LLC  
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 Fax (307) 674-0182



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 Apr 2010	<b>14</b>
Revised: CPS	Date: 15 Oct 2010	

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**BONANZA 1023-6B4CS  
 BONANZA 1023-6B4BS  
 BONANZA 1023-6A2CS  
 BONANZA 1023-6B**

Proposed Well	Distance To Nearest CA Boundary
BONANZA 1023-6B4CS	718ft
BONANZA 1023-6B4BS	680ft
BONANZA 1023-6A2CS	587ft
BONANZA 1023-6B	125ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6B4CS	209ft
BONANZA 1023-6B4BS	661ft
BONANZA 1023-6A2CS	811ft
BONANZA 1023-6B	125ft

**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- ▭ CA Agreement
- ▭ Lease Boundary
- - - Gas Pipeline - Proposed
- . - . Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- . - . Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-6B**

**TOPO E**  
**BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,**  
**BONANZA 1023-6A2CS & BONANZA 1023-6B**  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
**CONSULTING, LLC**  
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 Sheridan, WY 82801  
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 Apr 2010	<b>15</b>
Revised: CPS	Date: 15 Oct 2010	

15 of 16

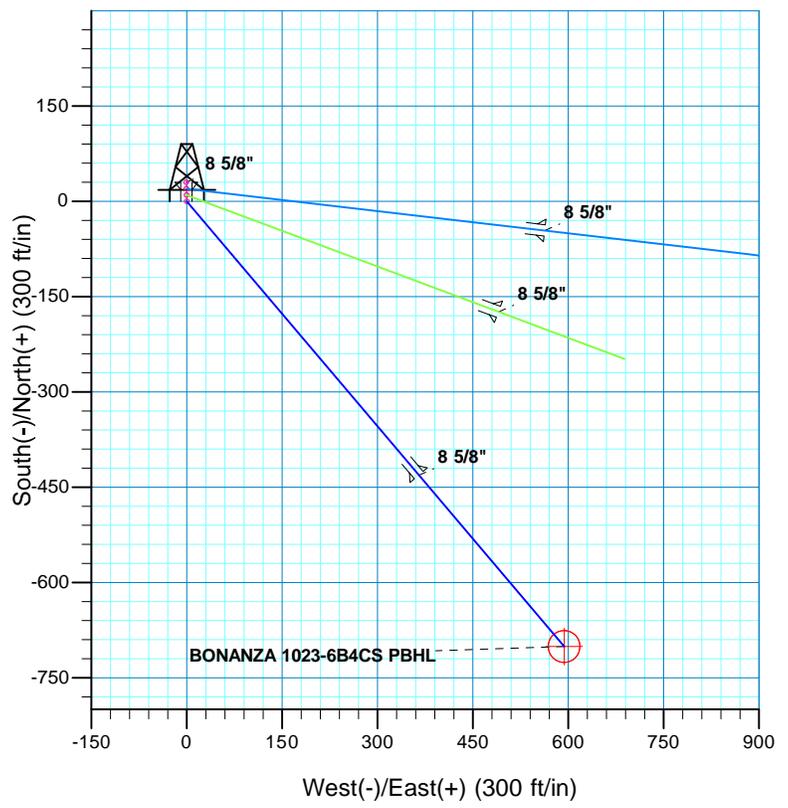
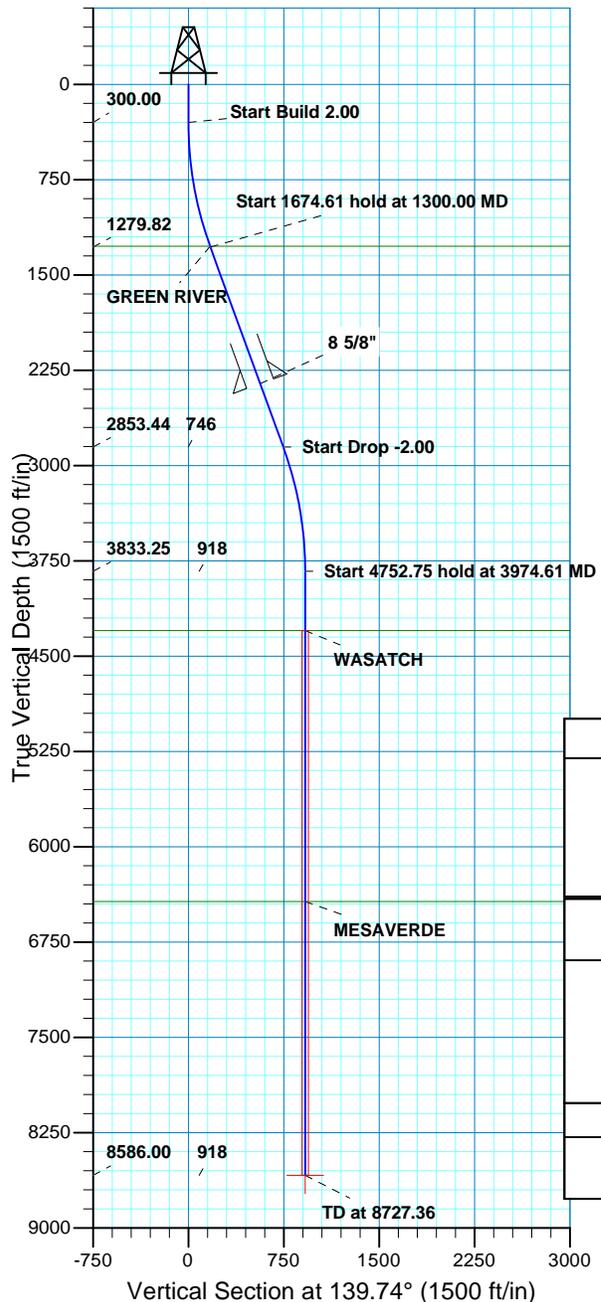
**Kerr-McGee Oil & Gas Onshore, LP**  
**WELL PAD – BONANZA 1023-6B**  
**WELLS – BONANZA 1023-6B4CS, BONANZA 1023-6B4BS,**  
**BONANZA 1023-6A2CS & BONANZA 1023-6B**  
**Section 6, T10S, R23E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 4.3 miles to the intersection of the Atchee Wash Road (County B Road 4240). Exit right and proceed in a southeasterly, then southerly direction along the Atchee Wash Road approximately 4.0 miles to a service road to the left. Exit left and proceed in a southeasterly direction along service road approximately 0.2 miles to the proposed access road. Exit left and follow the road flags in a southeasterly then northeasterly direction approximately 1430 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 46.7 miles in a southerly direction.

WELL DETAILS: BONANZA 1023-6B4CS						
GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14524433.58	2097467.75	39° 59' 2.728 N	109° 22' 6.355 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude Shape
PBHL	8586.00	-700.75	593.46	14523743.81	2098073.93	39° 58' 55.801 N 109° 21' 58.730 W Circle (Radius: 25.00)
- plan hits target center						

**Asimuths to True North**  
 Magnetic North: 11.12°  
  
**Magnetic Field**  
 Strength: 52412.8snT  
 Dip Angle: 65.90°  
 Date: 09/09/2010  
 Model: IGRF2010



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	139.74	1279.82	-131.84	111.65	2.00	139.74	172.77	
2974.61	20.00	139.74	2853.44	-568.91	481.81	0.00	0.00	745.52	
3974.61	0.00	0.00	3833.25	-700.75	593.46	2.00	180.00	918.29	
8727.36	0.00	0.00	8586.00	-700.75	593.46	0.00	0.00	918.29	BONANZA 1023-6B4CS PBHL

PROJECT DETAILS: Uintah County, UT UTM12		FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)	TVDPath 1274.00	MDPath 1293.81	Formation GREEN RIVER	
Datum: NAD 1927 - Western US	4299.00	4440.36	WASATCH	
Ellipsoid: Clarke 1866	6431.00	6572.36	MESAVERDE	
Zone: Zone 12N (114 W to 108 W)				
Location: SEC 6 T10S R23E				
System Datum: Mean Sea Level				

CASING DETAILS				
TVD	MD	Name	Size	
2357.00	2446.32	8 5/8"	8.625	



# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT UTM12**

**Bonanza 1023-6B**

**BONANZA 1023-6B4CS**

**OH**

**Plan: PLAN #1**

## **Standard Planning Report**

**09 September, 2010**



SDI  
Planning Report



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Uintah County, UT UTM12		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	Bonanza 1023-6B, SEC 6 T10S R23E				
<b>Site Position:</b>	<b>Northing:</b>	14,524,433.59 usft	<b>Latitude:</b>	39° 59' 2.728 N	
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,467.75 usft	<b>Longitude:</b>	109° 22' 6.355 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	1.05 °

<b>Well</b>	BONANZA 1023-6B4CS, 432' FNL 2518' FEL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,433.59 usft	<b>Latitude:</b>	39° 59' 2.728 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,097,467.75 usft	<b>Longitude:</b>	109° 22' 6.355 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,222.00 ft	

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	09/09/2010	11.12	65.90	52,413

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	139.74

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	139.74	1,279.82	-131.84	111.65	2.00	2.00	0.00	139.74	
2,974.61	20.00	139.74	2,853.44	-568.91	481.81	0.00	0.00	0.00	0.00	
3,974.61	0.00	0.00	3,833.25	-700.75	593.46	2.00	-2.00	0.00	180.00	
8,727.36	0.00	0.00	8,586.00	-700.75	593.46	0.00	0.00	0.00	0.00	BONANZA 1023-6B4C



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Start Build 2.00</b>										
400.00	2.00	139.74	399.98	-1.33	1.13	1.75	2.00	2.00	0.00	
500.00	4.00	139.74	499.84	-5.33	4.51	6.98	2.00	2.00	0.00	
600.00	6.00	139.74	599.45	-11.98	10.14	15.69	2.00	2.00	0.00	
700.00	8.00	139.74	698.70	-21.28	18.02	27.88	2.00	2.00	0.00	
800.00	10.00	139.74	797.47	-33.21	28.13	43.52	2.00	2.00	0.00	
900.00	12.00	139.74	895.62	-47.77	40.46	62.60	2.00	2.00	0.00	
1,000.00	14.00	139.74	993.06	-64.94	55.00	85.10	2.00	2.00	0.00	
1,100.00	16.00	139.74	1,089.64	-84.69	71.72	110.98	2.00	2.00	0.00	
1,200.00	18.00	139.74	1,185.27	-107.00	90.62	140.21	2.00	2.00	0.00	
1,293.81	19.88	139.74	1,274.00	-130.23	110.29	170.66	2.00	2.00	0.00	
<b>GREEN RIVER</b>										
1,300.00	20.00	139.74	1,279.82	-131.84	111.65	172.77	2.00	2.00	0.00	
<b>Start 1674.61 hold at 1300.00 MD</b>										
1,400.00	20.00	139.74	1,373.78	-157.94	133.76	206.97	0.00	0.00	0.00	
1,500.00	20.00	139.74	1,467.75	-184.04	155.86	241.17	0.00	0.00	0.00	
1,600.00	20.00	139.74	1,561.72	-210.14	177.97	275.37	0.00	0.00	0.00	
1,700.00	20.00	139.74	1,655.69	-236.24	200.07	309.58	0.00	0.00	0.00	
1,800.00	20.00	139.74	1,749.66	-262.34	222.17	343.78	0.00	0.00	0.00	
1,900.00	20.00	139.74	1,843.63	-288.44	244.28	377.98	0.00	0.00	0.00	
2,000.00	20.00	139.74	1,937.60	-314.54	266.38	412.18	0.00	0.00	0.00	
2,100.00	20.00	139.74	2,031.57	-340.64	288.48	446.38	0.00	0.00	0.00	
2,200.00	20.00	139.74	2,125.54	-366.74	310.59	480.59	0.00	0.00	0.00	
2,300.00	20.00	139.74	2,219.51	-392.84	332.69	514.79	0.00	0.00	0.00	
2,400.00	20.00	139.74	2,313.48	-418.94	354.79	548.99	0.00	0.00	0.00	
2,446.32	20.00	139.74	2,357.00	-431.03	365.03	564.83	0.00	0.00	0.00	
<b>8 5/8"</b>										
2,500.00	20.00	139.74	2,407.45	-445.04	376.90	583.19	0.00	0.00	0.00	
2,600.00	20.00	139.74	2,501.42	-471.14	399.00	617.39	0.00	0.00	0.00	
2,700.00	20.00	139.74	2,595.39	-497.24	421.11	651.60	0.00	0.00	0.00	
2,800.00	20.00	139.74	2,689.35	-523.34	443.21	685.80	0.00	0.00	0.00	
2,900.00	20.00	139.74	2,783.32	-549.44	465.31	720.00	0.00	0.00	0.00	
2,974.61	20.00	139.74	2,853.44	-568.91	481.81	745.52	0.00	0.00	0.00	
<b>Start Drop -2.00</b>										
3,000.00	19.49	139.74	2,877.33	-575.46	487.35	754.10	2.00	-2.00	0.00	
3,100.00	17.49	139.74	2,972.16	-599.66	507.85	785.81	2.00	-2.00	0.00	
3,200.00	15.49	139.74	3,068.04	-621.32	526.19	814.20	2.00	-2.00	0.00	
3,300.00	13.49	139.74	3,164.86	-640.42	542.36	839.22	2.00	-2.00	0.00	
3,400.00	11.49	139.74	3,262.48	-656.93	556.34	860.85	2.00	-2.00	0.00	
3,500.00	9.49	139.74	3,360.81	-670.82	568.11	879.06	2.00	-2.00	0.00	
3,600.00	7.49	139.74	3,459.71	-682.09	577.65	893.83	2.00	-2.00	0.00	
3,700.00	5.49	139.74	3,559.06	-690.72	584.96	905.14	2.00	-2.00	0.00	
3,800.00	3.49	139.74	3,658.75	-696.69	590.02	912.97	2.00	-2.00	0.00	
3,900.00	1.49	139.74	3,758.65	-700.01	592.83	917.32	2.00	-2.00	0.00	
3,974.61	0.00	0.00	3,833.25	-700.75	593.46	918.29	2.00	-2.00	0.00	
<b>Start 4752.75 hold at 3974.61 MD</b>										
4,000.00	0.00	0.00	3,858.64	-700.75	593.46	918.29	0.00	0.00	0.00	



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,100.00	0.00	0.00	3,958.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,058.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,158.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,258.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,440.36	0.00	0.00	4,299.00	-700.75	593.46	918.29	0.00	0.00	0.00	
<b>WASATCH</b>										
4,500.00	0.00	0.00	4,358.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,458.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,558.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,658.64	-700.75	593.46	918.29	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,758.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,858.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,100.00	0.00	0.00	4,958.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,058.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,158.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,258.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,358.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,458.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,558.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,658.64	-700.75	593.46	918.29	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,758.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,858.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,958.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,058.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,158.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,258.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,358.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,572.36	0.00	0.00	6,431.00	-700.75	593.46	918.29	0.00	0.00	0.00	
<b>MESAVERDE</b>										
6,600.00	0.00	0.00	6,458.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,558.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,658.64	-700.75	593.46	918.29	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,758.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,858.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,958.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,058.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,158.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,258.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,358.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,458.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,558.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,658.64	-700.75	593.46	918.29	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,758.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,858.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,958.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,058.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,158.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,258.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,358.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,458.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,558.64	-700.75	593.46	918.29	0.00	0.00	0.00	
8,727.36	0.00	0.00	8,586.00	-700.75	593.46	918.29	0.00	0.00	0.00	



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
BONANZA 1023-6B4CS PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BONANZA 1023-6B4CS - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,586.00	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,446.32	2,357.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,293.81	1,274.00	GREEN RIVER			
4,440.36	4,299.00	WASATCH			
6,572.36	6,431.00	MESAVERDE			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-131.84	111.65	Start 1674.61 hold at 1300.00 MD
2,974.61	2,853.44	-568.91	481.81	Start Drop -2.00
3,974.61	3,833.25	-700.75	593.46	Start 4752.75 hold at 3974.61 MD
8,727.36	8,586.00	-700.75	593.46	TD at 8727.36



# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT UTM12**

**Bonanza 1023-6B**

**BONANZA 1023-6B4CS**

**OH**

**Plan: PLAN #1**

## **Standard Planning Report - Geographic**

**09 September, 2010**



SDI  
Planning Report - Geographic



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Uintah County, UT UTM12		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	Bonanza 1023-6B, SEC 6 T10S R23E				
<b>Site Position:</b>	<b>Northing:</b>	14,524,433.59 usft	<b>Latitude:</b>	39° 59' 2.728 N	
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,467.75 usft	<b>Longitude:</b>	109° 22' 6.355 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	1.05 °

<b>Well</b>	BONANZA 1023-6B4CS, 432' FNL 2518' FEL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,433.59 usft	<b>Latitude:</b>	39° 59' 2.728 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,097,467.75 usft	<b>Longitude:</b>	109° 22' 6.355 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,222.00 ft	

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	09/09/2010	11.12	65.90	52,413

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	139.74

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	139.74	1,279.82	-131.84	111.65	2.00	2.00	0.00	139.74	
2,974.61	20.00	139.74	2,853.44	-568.91	481.81	0.00	0.00	0.00	0.00	
3,974.61	0.00	0.00	3,833.25	-700.75	593.46	2.00	-2.00	0.00	180.00	
8,727.36	0.00	0.00	8,586.00	-700.75	593.46	0.00	0.00	0.00	0.00	BONANZA 1023-6B4C



SDI  
Planning Report - Geographic



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,524,433.59	2,097,467.75	39° 59' 2.728 N	109° 22' 6.355 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,524,433.59	2,097,467.75	39° 59' 2.728 N	109° 22' 6.355 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,524,433.59	2,097,467.75	39° 59' 2.728 N	109° 22' 6.355 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,524,433.59	2,097,467.75	39° 59' 2.728 N	109° 22' 6.355 W	
<b>Start Build 2.00</b>										
400.00	2.00	139.74	399.98	-1.33	1.13	14,524,432.27	2,097,468.90	39° 59' 2.714 N	109° 22' 6.341 W	
500.00	4.00	139.74	499.84	-5.33	4.51	14,524,428.34	2,097,472.35	39° 59' 2.675 N	109° 22' 6.297 W	
600.00	6.00	139.74	599.45	-11.98	10.14	14,524,421.80	2,097,478.11	39° 59' 2.609 N	109° 22' 6.225 W	
700.00	8.00	139.74	698.70	-21.28	18.02	14,524,412.64	2,097,486.15	39° 59' 2.517 N	109° 22' 6.124 W	
800.00	10.00	139.74	797.47	-33.21	28.13	14,524,400.89	2,097,496.48	39° 59' 2.399 N	109° 22' 5.994 W	
900.00	12.00	139.74	895.62	-47.77	40.46	14,524,386.56	2,097,509.07	39° 59' 2.255 N	109° 22' 5.835 W	
1,000.00	14.00	139.74	993.06	-64.94	55.00	14,524,369.66	2,097,523.92	39° 59' 2.086 N	109° 22' 5.649 W	
1,100.00	16.00	139.74	1,089.64	-84.69	71.72	14,524,350.22	2,097,541.01	39° 59' 1.891 N	109° 22' 5.434 W	
1,200.00	18.00	139.74	1,185.27	-107.00	90.62	14,524,328.26	2,097,560.31	39° 59' 1.670 N	109° 22' 5.191 W	
1,293.81	19.88	139.74	1,274.00	-130.23	110.29	14,524,305.39	2,097,580.40	39° 59' 1.440 N	109° 22' 4.938 W	
<b>GREEN RIVER</b>										
1,300.00	20.00	139.74	1,279.82	-131.84	111.65	14,524,303.81	2,097,581.80	39° 59' 1.424 N	109° 22' 4.921 W	
<b>Start 1674.61 hold at 1300.00 MD</b>										
1,400.00	20.00	139.74	1,373.78	-157.94	133.76	14,524,278.12	2,097,604.37	39° 59' 1.166 N	109° 22' 4.637 W	
1,500.00	20.00	139.74	1,467.75	-184.04	155.86	14,524,252.43	2,097,626.95	39° 59' 0.909 N	109° 22' 4.353 W	
1,600.00	20.00	139.74	1,561.72	-210.14	177.97	14,524,226.74	2,097,649.53	39° 59' 0.651 N	109° 22' 4.069 W	
1,700.00	20.00	139.74	1,655.69	-236.24	200.07	14,524,201.05	2,097,672.11	39° 59' 0.393 N	109° 22' 3.785 W	
1,800.00	20.00	139.74	1,749.66	-262.34	222.17	14,524,175.36	2,097,694.68	39° 59' 0.135 N	109° 22' 3.501 W	
1,900.00	20.00	139.74	1,843.63	-288.44	244.28	14,524,149.66	2,097,717.26	39° 58' 59.877 N	109° 22' 3.217 W	
2,000.00	20.00	139.74	1,937.60	-314.54	266.38	14,524,123.97	2,097,739.84	39° 58' 59.619 N	109° 22' 2.933 W	
2,100.00	20.00	139.74	2,031.57	-340.64	288.48	14,524,098.28	2,097,762.42	39° 58' 59.361 N	109° 22' 2.649 W	
2,200.00	20.00	139.74	2,125.54	-366.74	310.59	14,524,072.59	2,097,784.99	39° 58' 59.103 N	109° 22' 2.365 W	
2,300.00	20.00	139.74	2,219.51	-392.84	332.69	14,524,046.90	2,097,807.57	39° 58' 58.845 N	109° 22' 2.081 W	
2,400.00	20.00	139.74	2,313.48	-418.94	354.79	14,524,021.21	2,097,830.15	39° 58' 58.587 N	109° 22' 1.797 W	
2,446.32	20.00	139.74	2,357.00	-431.03	365.03	14,524,009.31	2,097,840.61	39° 58' 58.467 N	109° 22' 1.665 W	
<b>8 5/8"</b>										
2,500.00	20.00	139.74	2,407.45	-445.04	376.90	14,523,995.52	2,097,852.73	39° 58' 58.329 N	109° 22' 1.513 W	
2,600.00	20.00	139.74	2,501.42	-471.14	399.00	14,523,969.83	2,097,875.30	39° 58' 58.071 N	109° 22' 1.229 W	
2,700.00	20.00	139.74	2,595.39	-497.24	421.11	14,523,944.14	2,097,897.88	39° 58' 57.813 N	109° 22' 0.945 W	
2,800.00	20.00	139.74	2,689.35	-523.34	443.21	14,523,918.45	2,097,920.46	39° 58' 57.555 N	109° 22' 0.661 W	
2,900.00	20.00	139.74	2,783.32	-549.44	465.31	14,523,892.75	2,097,943.04	39° 58' 57.297 N	109° 22' 0.377 W	
2,974.61	20.00	139.74	2,853.44	-568.91	481.81	14,523,873.59	2,097,959.88	39° 58' 57.104 N	109° 22' 0.165 W	
<b>Start Drop -2.00</b>										
3,000.00	19.49	139.74	2,877.33	-575.46	487.35	14,523,867.14	2,097,965.54	39° 58' 57.040 N	109° 22' 0.094 W	
3,100.00	17.49	139.74	2,972.16	-599.66	507.85	14,523,843.32	2,097,986.48	39° 58' 56.800 N	109° 21' 59.830 W	
3,200.00	15.49	139.74	3,068.04	-621.32	526.19	14,523,822.00	2,098,005.22	39° 58' 56.586 N	109° 21' 59.595 W	
3,300.00	13.49	139.74	3,164.86	-640.42	542.36	14,523,803.20	2,098,021.74	39° 58' 56.398 N	109° 21' 59.387 W	
3,400.00	11.49	139.74	3,262.48	-656.93	556.34	14,523,786.95	2,098,036.02	39° 58' 56.234 N	109° 21' 59.207 W	
3,500.00	9.49	139.74	3,360.81	-670.82	568.11	14,523,773.27	2,098,048.04	39° 58' 56.097 N	109° 21' 59.056 W	
3,600.00	7.49	139.74	3,459.71	-682.09	577.65	14,523,762.18	2,098,057.79	39° 58' 55.986 N	109° 21' 58.933 W	
3,700.00	5.49	139.74	3,559.06	-690.72	584.96	14,523,753.69	2,098,065.25	39° 58' 55.900 N	109° 21' 58.840 W	
3,800.00	3.49	139.74	3,658.75	-696.69	590.02	14,523,747.81	2,098,070.42	39° 58' 55.841 N	109° 21' 58.775 W	
3,900.00	1.49	139.74	3,758.65	-700.01	592.83	14,523,744.54	2,098,073.29	39° 58' 55.809 N	109° 21' 58.738 W	
3,974.61	0.00	0.00	3,833.25	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W	
<b>Start 4752.75 hold at 3974.61 MD</b>										
4,000.00	0.00	0.00	3,858.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W	
4,100.00	0.00	0.00	3,958.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W	



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,200.00	0.00	0.00	4,058.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,300.00	0.00	0.00	4,158.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,400.00	0.00	0.00	4,258.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,440.36	0.00	0.00	4,299.00	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
<b>WASATCH</b>									
4,500.00	0.00	0.00	4,358.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,600.00	0.00	0.00	4,458.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,700.00	0.00	0.00	4,558.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,800.00	0.00	0.00	4,658.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
4,900.00	0.00	0.00	4,758.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,000.00	0.00	0.00	4,858.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,100.00	0.00	0.00	4,958.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,200.00	0.00	0.00	5,058.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,300.00	0.00	0.00	5,158.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,400.00	0.00	0.00	5,258.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,500.00	0.00	0.00	5,358.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,600.00	0.00	0.00	5,458.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,700.00	0.00	0.00	5,558.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,800.00	0.00	0.00	5,658.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
5,900.00	0.00	0.00	5,758.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,000.00	0.00	0.00	5,858.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,100.00	0.00	0.00	5,958.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,200.00	0.00	0.00	6,058.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,300.00	0.00	0.00	6,158.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,400.00	0.00	0.00	6,258.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,500.00	0.00	0.00	6,358.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,572.36	0.00	0.00	6,431.00	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
<b>MESAVERDE</b>									
6,600.00	0.00	0.00	6,458.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,700.00	0.00	0.00	6,558.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,800.00	0.00	0.00	6,658.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
6,900.00	0.00	0.00	6,758.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,000.00	0.00	0.00	6,858.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,100.00	0.00	0.00	6,958.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,200.00	0.00	0.00	7,058.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,300.00	0.00	0.00	7,158.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,400.00	0.00	0.00	7,258.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,500.00	0.00	0.00	7,358.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,600.00	0.00	0.00	7,458.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,700.00	0.00	0.00	7,558.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,800.00	0.00	0.00	7,658.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
7,900.00	0.00	0.00	7,758.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,000.00	0.00	0.00	7,858.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,100.00	0.00	0.00	7,958.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,200.00	0.00	0.00	8,058.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,300.00	0.00	0.00	8,158.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,400.00	0.00	0.00	8,258.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,500.00	0.00	0.00	8,358.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,600.00	0.00	0.00	8,458.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,700.00	0.00	0.00	8,558.64	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
8,727.36	0.00	0.00	8,586.00	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
<b>BONANZA 1023-6B4CS PBHL</b>									



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5222' & RKB 14' @ 5236.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6B	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
BONANZA 1023-6B4CS	0.00	0.00	8,586.00	-700.75	593.46	14,523,743.81	2,098,073.93	39° 58' 55.801 N	109° 21' 58.730 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
2,446.32	2,357.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
1,293.81	1,274.00	GREEN RIVER			
4,440.36	4,299.00	WASATCH			
6,572.36	6,431.00	MESAVERDE			

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
		(ft)	(ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	-131.84	111.65	Start 1674.61 hold at 1300.00 MD	
2,974.61	2,853.44	-568.91	481.81	Start Drop -2.00	
3,974.61	3,833.25	-700.75	593.46	Start 4752.75 hold at 3974.61 MD	
8,727.36	8,586.00	-700.75	593.46	TD at 8727.36	

**Kerr-McGee Oil & Gas Onshore. L.P.****API #4304740398****BONANZA 1023-6B**

Surface:	402 FNL / 2519 FEL	NWNE	Lot 2
BHL:	402 FNL / 2519 FEL	NWNE	Lot 2

**API #****BONANZA 1023-6A2CS**

Surface:	412 FNL / 2519 FEL	NWNE	Lot 2
BHL:	587 FNL / 1020 FEL	NENE	Lot 1

**API #****BONANZA 1023-6B4BS**

Surface:	422 FNL / 2518 FEL	NWNE	Lot 2
BHL:	680 FNL / 1830 FEL	NWNE	Lot 2

**API #****BONANZA 1023-6B4CS**

Surface:	432 FNL / 2518 FEL	NWNE	Lot 2
BHL:	1133 FNL / 1925 FEL	NWNE	Lot 2

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information incorporates by reference the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (KMG). The MDP is available upon request from the BLM-Vernal Field Office.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

Bonanza 1023-6B (vertical) was approved by the Vernal BLM office on April 2, 2010. Kerr-McGee's strategic goal for this location is to submit a notice of intent sundry to move the surface hole location. This location will remain a vertical wellbore.

An on-site meeting was held on June 16, 2010. Present were:

- Dave Gordon, Suzanne Gray and Dan Emmett – BLM;
- John Slaugh, Brock Slaugh and Mitch Batty- Timberline Engineering & Land Surveying, Inc.; and
- Roger Parry, Clay Einerson, Grizz Oleen, Sheila Wopsock, Lovell Young, Grizz Oleen, Hal Blanchard, Lance Morton, Tim Donovan, Kathie Zehren, Laura Gianakos and Charles Chase – Kerr-McGee

**A. Existing Roads:**

- A) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

**The following segments require a ROW.**

- ±6,210' (1.2 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, tie in point from new proposed road to the eastern section line boundary in the NE/4 SE/4. Please refer to Exhibit B2, Lines 7 and 5.
- ±1,310' (0.3 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, from the western section line boundary the southern section line boundary. Please refer to Exhibit B2, Line 4.
- ±40' (0.01 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, dips into the northern section line boundary and back up to northern section line boundary. Please refer to Exhibit B2, Line 3.

±600' (0.1 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, comes in from the southern section boundary line, travels east, then back to the southern section boundary line.

Please refer to Exhibit B2, Line 2.

±1,010' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, enters the northern section line boundary and ties in to existing road in the NE/4 NW/4 of section 8. Please refer to Exhibit B2, Line 1.

**B. New or Reconstructed Access Roads:**

See MDP for additional details on road construction.

**The following segments are "onlease", no ROW needed.**

±80' (0.02 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, Proposed new road from edge of pad to approved ROW on lease UTU38419, but unbuilt. (Highlighted in Pink) Please refer to Exhibit B2 and Topo D2.

±1,380' (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, Proposed new road from the edge of lease UTU33433 on existing ROW (Highlighted Pink) to existing road tie in. Please refer to Exhibit B2 and Topo D2.

**C. Location of Existing Wells:**

A) Refer to Topo Map C.

**D. Location of Existing and/or Proposed Facilities:**

*See MDP for additional details on Location of Existing and/or Proposed Facilities. Also, please refer to Exhibit B and Topo D- Pad and Pipeline Detail.*

This pad will expand the existing pad for the Bonanza 1023-6B, which is a approved but undrilled well according to Utah Division of Oil, Gas and Mining (UDOGM) records on October 27, 2010. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (KMG).

**GAS GATHERING**

The gas gathering pipeline material: Steel line pipe with fusion bond epoxy coating. The total gas gathering pipeline distance from the meter to the tie in point is ±10,610' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

±650' (0.1 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the separator to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.

±80' (0.02 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the edge of the lease. Please refer Exhibit A, Line 6.

**The following segments require a ROW.**

- ±1,380' (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, BLM surface, New 6" buried gas gathering pipeline from the edge of the lease to the tie in point in NE/4 NW/4. Please refer to Exhibit A1, Line 10.
- ±2040' (0.4 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, BLM surface, New 16" buried gas gathering pipeline from the edge of the Lease UTU33433 to the western section line boundary. Please refer to Exhibit A1, Lines 11, 12 and 13. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±6,460' (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 16" buried gas gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit A1, Line 14. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza

The remaining gas pipeline section that will go to the existing Tank Battery, will be on state surface. Kerr-McGee will apply for the appropriate state rights of way.

Kerr-McGee, additionally will install a gas gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed gas gathering from the meter to the tie in point is ±10,770 and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±650' (0.1 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the separator to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.
- ±80' (0.02 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the edge of the lease. Please refer Exhibit A, Line 6.

**The following segments require a ROW.**

- ±1,380' (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, BLM surface, New 6" buried gas gathering pipeline from the edge of the lease to the tie in point in NE/4 NW/4. Please refer to Exhibit A1, Line 10.
- ±5,760' (1.1 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, BLM surface, New 16" buried gas gathering pipeline from the tie in point in NE/4 NW/4 to the eastern edge of the lease and section boundary. Please refer to Exhibit A1, Lines 9, 8 and 6. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±1,220' (0.2 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 16" gas gathering pipeline from the west lease boundary of 1023-Section 5 to the southern lease boundary of 1023-Section 5. Please refer to Exhibit A1, Line 5. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±190' (0.03 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New 16" gas gathering pipeline dips in from the north lease boundary of 1023-Section 8 and back north to the section boundary. Please refer to Exhibit A1, Line 4. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±360' (0.03 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 16"

gas gathering pipeline dips in from the south lease boundary of 1023-Section 5 and back south to the section boundary. Please refer to Exhibit A1, Line 3 and 2. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±1,130' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New 16" gas gathering pipeline comes in from the north lease boundary of 1023-Section 8 and goes southeasterly to the tie in point in the NENW of 1023 section 8. Please refer to Exhibit A1, Line 1. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

Kerr-McGee will transport fluids (Gas and Liquids) via either or both of the said pipelines.

### LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is ±10,610' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±650' (0.1 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.
- ±80' (0.02 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the edge of the lease. Please refer Exhibit B, Line 1.

**The following segments require a ROW.**

- ±1,380' (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the lease to the tie in point in NE/4 NW/4. Please refer to Exhibit B1, Line 1.
- ±2,040' (0.4 miles) – Section 6 T10S R23E (NE/4 NW/4) – Lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the lease UTU33433 to the western section line boundary. Please refer to Exhibit B1, Lines 2, 3 and 4. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±6,460' (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit B1, Line 5 for ROW information. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The remaining liquid pipeline section that will go to the existing Tank Battery, will be on state surface. Kerr-McGee will apply for the appropriate state rights of way.

Kerr-McGee, additionally will install a liquid gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed liquid gathering from the separator to the tie in point is ±10,770 and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±650' (0.1 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.
- ±80' (0.02 miles) – Section 6 T10S R23E (NW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the edge of the lease. Please refer Exhibit B, Line 1.

**The following segments require a ROW.**

- ±1,380' (0.3 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the lease to the tie in point in NE/4 NW/4. Please refer to Exhibit B1, Line 1.
- ±5,760' (1.1 miles) – Section 6 T10S R23E (NE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the tie in point in NE/4 NW/4 to the eastern edge of the lease and section boundary. Please refer to Exhibit B1, Lines 18, 19 and 7. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±1,220' (0.2 miles) – Section 5 T10S R23E (SW/4 SW/4) – On-lease UTU73450, BLM surface, New 6" liquid gathering pipeline from the west lease boundary of 1023-Section 5 to the southern lease boundary of 1023-Section 5. Please refer to Exhibit B1, Line 8. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±190' (0.03 miles) – Section 8 T10S R23E (NW/4 NW/4) – On-lease UTU37355, BLM surface, New 6" liquid gathering pipeline dips in from the north lease boundary of 1023-Section 8 and back north to the section boundary. Please refer to Exhibit B1, Line 9. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±360' (0.03 miles) – Section 5 T10S R23E (SW/4 SW/4) – On-lease UTU73450, BLM surface, New 6" liquid gathering pipeline dips in from the south lease boundary of 1023-Section 5 and back south to the section boundary. Please refer to Exhibit B1, Lines 10 and 16. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±1,130' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – On-lease UTU37355, BLM surface, New 6" liquid gathering pipeline comes in from the north lease boundary of 1023-Section 8 and goes southeasterly to the tie in point in the NENW of 1023 section 8. Please refer to Exhibit B1, Line 17. This portion of pipeline will be used concurrently with the Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed buried pipelines will be constructed utilizing existing disturbance when possible. The area of disturbance during construction from the edge of road or well pad will be 30' in width. The total pipeline disturbance width will be 30'. Where possible there will be no additional disturbance during construction, as the road will be utilized for construction vehicles. The liquid and gas gathering lines will be in the same trench.

The proposed trench width for the pipeline would range from 18-48 inch and will be excavated to a depth of 48 to 60

inches of normal soil cover or 24 inches of cover in consolidated rock. The pipeline will be welded or zap locked along the proposed right-of-way and lowered into place. During construction blasting may occur along the proposed right-of-way when trenching equipment can not cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically tested before being placed into service.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to the MDP for more details regarding final reclamation. Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations to connect the new line to existing facilities and/or for safety purposes. Kerr-McGee requests for a permanent 30' right-of-way that will be maintained for the portion adjacent to the road. The need for the 30' permanent right-of-way is for maintenance and repairs.

When no longer serving a useful purpose, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before termination.

**The Anadarko Completions Transportation System (ACTS) information:**

*See MDP for additional details on the ACTS System.*

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The refurbished pit will be relined per the guidelines in the MDP. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit that does not coincide with Kerr-McGee's MDP. Hog fence panels (5' X 16") will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits. There will be two 500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the temporary frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will be also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be

operated at a pressure of approximately 30 to 40 psig.

Kerr-McGee requests to keep this netted pit open for one year. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim as stated in the MDP. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

**E. Location and Types of Water Supply:**

See MDP for additional details on Location and Type of Water Supply.

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**F. Construction Materials:**

*See MDP for additional details on Source of Construction Materials.*

**G. Methods for Handling Waste:**

*See MDP for additional details on Methods of Handling Waste Materials*

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E  
 NBU #159 in Sec. 35 T9S R21E  
 Ace Oilfield in Sec. 2 T6S R20E  
 MC&MC in Sec. 12 T6S R19E  
 Pipeline Facility in Sec. 36 T9S R20E  
 Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E  
 Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E  
 CIGE 112D SWD in Sec. 19 T9S R21E  
 CIGE 114 SWD in Sec. 34 T9S R21E  
 NBU 921-34K SWD in Sec. 34 T9S R21E  
 NBU 921-33F SWD in Sec. 34 T9S R21E

**H. Ancillary Facilities:**

*See MDP for additional details on Ancillary Facilities.*  
None are anticipated.

**I. Well Site Layout:**

*See MDP and Well Pad Design Summary for additional details on Well Site Layout.*

**J. Plans for Surface Reclamation:**

*See MDP for additional details on Plans for Reclamation of the Surface.*

**Site Specific Reclamation Considerations:**

Reclamation Monitoring Reference Point for all wells on Pad (where a reclamation monitoring point has not been established at the time of APD submission, it will be submitted for approval under separate cover prior to surface disturbing activities):

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

<b>Bonanza Area Mix</b>	<b>Pure Live Seed lbs/acre</b>
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass (Arriba)	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee Plant	0.5
<b>Total</b>	<b>9.75</b>

**K. Surface Ownership:**

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**L. Other Information:**

*See MDP for additional details on Other Information.*

**Onsite Specifics:**

- Existing top soil will move and put around the corner
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" of Topsoil
- Obtain Storm water permit
- BMP on the pit use (Waddles, hay bails or Silt Fence)

**Resource Reports:**

A Class I literature survey was completed on April 20, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-066b.

A paleontological reconnaissance survey was completed on August 9, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-38.

Biological field survey was completed on April 28, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-216.

**Right-of-Ways (ROW):**

*See MDP for additional information on ROW*

Bonanza 1023-6B/ 1023-6A2CS/ 1023-6B4BS/ 1023-6B4CS  
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations  
10 of 10

**M. Lessee's or Operators' Representative & Certification:**

Gina T. Becker  
Regulatory Analyst II  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6086

Tommy Thompson  
General Manager, Drilling  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

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



Gina T. Becker

November 4, 2010

Date



Kerr-McGee Oil & Gas Onshore LP  
P.O. Box 173779  
Denver, CO 80217-3779

August 20, 2010

Ms. Diana Mason  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-6100

Re: Exception Location R649-3-3 and Directional Drilling R649-3-11  
Bonanza 1023-6B4CS  
T10S- R23E  
Section 6: NWNE/NWNE  
432' FNL, 2518' FEL (surface)  
1133' FNL, 1925' FEL (bottom hole)  
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-3 and Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's Bonanza 1023-6B4CS is located within the area covered by Docket No. 2008-011 authorizing the equivalent of an approximate 10-acre well density pattern, and requiring approval for wells drilled at an exception location and wells drilled directionally in accordance with the referenced rules.
- Kerr-McGee is permitting this well at this location for geological reasons. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to minimize surface disturbance.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to Rule R649-3-3 and Rule R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

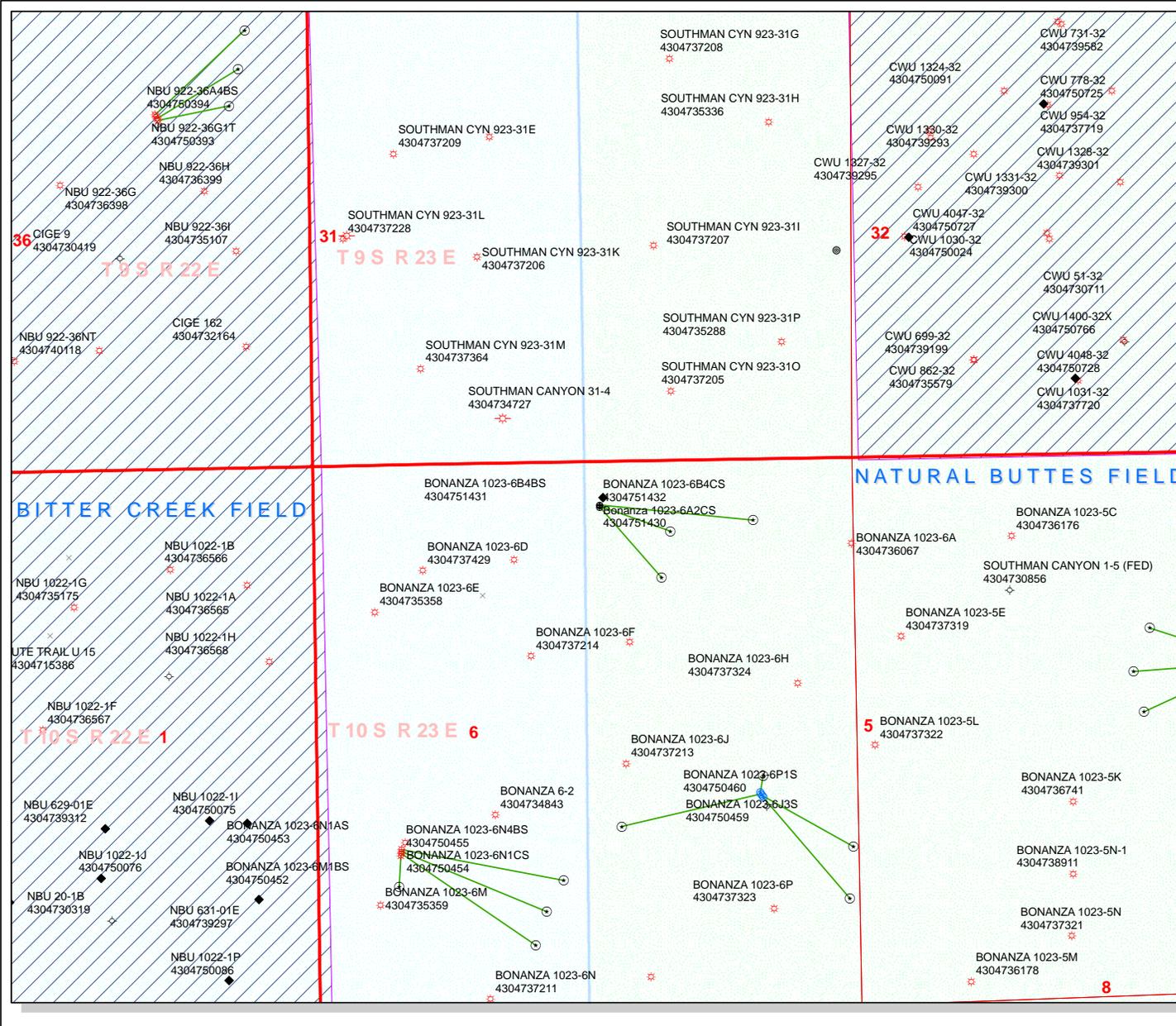
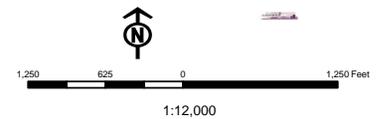
A handwritten signature in blue ink that reads 'Jessy Pink'.

Jessy Pink  
Landman

**API Number: 4304751432**  
**Well Name: BONANZA 1023-6B4CS**  
**Township 10.0 S Range 23.0 E Section 06**  
**Meridian: SLBM**  
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:  
 Map Produced by Diana Mason

- |                      |                                    |
|----------------------|------------------------------------|
| <b>Units STATUS</b>  | <b>Wells Query Status</b>          |
| ACTIVE               | APD - Approved Permit              |
| EXPLORATORY          | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE          | GIW - Gas Injection                |
| NF PP OIL            | GS - Gas Storage                   |
| NF SECONDARY         | LA - Location Abandoned            |
| PI OIL               | LOC - New Location                 |
| PP GAS               | OIS - Operation Suspended          |
| PP GEOTHERMAL        | PA - Plugged Abandoned             |
| PP OIL               | PGW - Producing Gas Well           |
| SECONDARY            | POW - Producing Oil Well           |
| TERMINATED           | RET - Returned APD                 |
| <b>Fields STATUS</b> | SGW - Shut-in Gas Well             |
| Unknown              | SOW - Shut-in Oil Well             |
| ABANDONED            | TA - Temp. Abandoned               |
| ACTIVE               | TW - Test Well                     |
| COMBINED             | WDW - Water Disposal               |
| INACTIVE             | WIW - Water Injection Well         |
| STORAGE              | WSW - Water Supply Well            |
| TERMINATED           |                                    |
| Sections             |                                    |
| Township             |                                    |



# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 12/27/2010

**WELL NAME:** BONANZA 1023-6B4CS

**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

**CONTACT:** Gina Becker

**API NO. ASSIGNED:** 43047514320000

**PHONE NUMBER:** 720 929-6086

**PROPOSED LOCATION:** NWN 06 100S 230E

**SURFACE:** 0432 FNL 2518 FEL

**BOTTOM:** 1133 FNL 1925 FEL

**COUNTY:** UINTAH

**LATITUDE:** 39.98413

**UTM SURF EASTINGS:** 639303.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU33433

**SURFACE OWNER:** 1 - Federal

**Permit Tech Review:**

**Engineering Review:**

**Geology Review:**

**LONGITUDE:** -109.36851

**NORTHINGS:** 4427061.00

**PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

**COALBED METHANE:** NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Permit #43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 179-14
- Effective Date: 6/12/2008
- Siting: 460' Fr Exterior Drilling Unit Boundary
- R649-3-11. Directional Drill

**Comments:** Presite Completed

**Stipulations:**  
1 - Exception Location - dmason  
3 - Commingle - ddoucet  
4 - Federal Approval - dmason  
15 - Directional - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** BONANZA 1023-6B4CS

**API Well Number:** 43047514320000

**Lease Number:** UTU33433

**Surface Owner:** FEDERAL

**Approval Date:** 1/11/2011

**Issued to:**

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

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

**Commingle:**

In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

**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.

**Conditions of Approval:**

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

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.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a faint, illegible stamp or background.

For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

APD PMT RCVD

JAN 03 2011

BLM - VFO

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU33433
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. UTU60768
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		8. Lease Name and Well No. BONANZA 1023-6B4CS
3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086		9. API Well No. 43-047-51432
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface Lot 2 432FNL 2518FEL 39.98406 N Lat, 109.36911 W Lon At proposed prod. zone Lot 2 1133FNL 1925FEL 39.98213 N Lat, 109.36699 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES BONANZA
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 46.7 MILES SOUTH OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1133	16. No. of Acres in Lease	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 698
19. Proposed Depth 8727 MD 8586 TVD	20. BLM/BIA Bond No. on file WYB000291	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5228 GL
22. Approximate date work will start 06/30/2011	23. Estimated duration 60-90 DAYS	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 12/27/2010
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date OCT 06 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

RECEIVED

Additional Operator Remarks (see next page)

OCT 12 2011

Electronic Submission #99600 verified by the BLM Well Information System  
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal DIV. OF OIL, GAS & MINING  
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/05/2011 (11RRH0718AE)

NOTICE OF APPROVAL



CONDITIONS OF APPROVAL ATTACHED

\*\* BLM REVISED \*\*

10GXJ3620AE

NOS 6/10/2010



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company:	Kerr McGee Oil & Gas Onshore	Location:	Lot 2, Sec. 6, T10S, R23E
Well No:	Bonanza 1023-6B4CS	Lease No:	UTU-33433
API No:	43-047-51432	Agreement:	N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |   |  |
|---|--|
| Location Construction<br>(Notify Environmental Scientist)       | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Environmental Scientist)         | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                      | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Supv. Petroleum Tech.)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> . |
| BOP & Related Equipment Tests<br>(Notify Supv. Petroleum Tech.) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)          | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.             |

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

#### **Site Specific Conditions of Approval**

- One site, 42UN3526, an Archaic lithic scatter was identified near the proposed pipeline. It has been recommended as "eligible" to the NRHP. MOAC recommends temporary fence should be erected prior to construction of the pipeline to facilitate avoidance of this site and no cultural monitoring. However, the BLM is requiring no fence and a qualified archaeologist must be present for monitoring during all construction activities in the area of the eligible site.
- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project."
- The operator will follow the Green River District Reclamation Guidelines for reclamation.

- A permitted paleontologist is to be present to monitor construction during all surface disturbing activities: examples include the following building of the well pad, access road, and pipelines.

The following measures are required by and have been committed to by Anadarko within the Programmatic Section 7 consultation for the Natural Buttes Unit and Bonanza Area Natural Gas Development for all areas where surface disturbing activities cannot be avoided by the required 300 foot buffer from identified Uinta Basin hookless cactus individuals

- Silt fencing will be used to protect populations within 300 feet of surface disturbing activities that are downslope or downwind of the surface disturbance
- A qualified botanist will be on site to monitor the surface-disturbing activities.
- Dust abatement will occur and will be done using only water.
- All cacti within 300 feet will be flagged immediately prior to surface-disturbing activities are completed.
- Pipelines will be located to the far side of the Right-of-Way to maximize distance from cacti.
- Project personnel associated with construction activities would be instructed to drive a speed limit of 15 miles per hour on unpaved roads and to remain on the existing roads and approved Rights-of-Way at all times.

*Discovery Stipulation:* Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Gamma Ray Log shall be run from Total Depth to Surface.
- Cement for the production casing shall be brought 200 feet above the surface casing shoe.  
Variances Granted:

**Air Drilling**

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of rotating head.
- Blooie line discharge 100' from well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located within 40' of the well.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter since there are no productive formations in the interval that is air drilled.
- FIT Test. Variance granted due to well known geology and problems that can occur with the FIT test.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:**

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order

No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers 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 shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 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 Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG  
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024  
Well Name/Number BONANZA 1023-6B4CS  
Qtr/Qtr NW/NE Section 6 Township 10S Range 23E  
Lease Serial Number UTU-33433  
API Number 4304751432

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 10/28/2011 1400 HRS AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

RECEIVED

OCT 27 2011

DIV. OF OIL, GAS & MINING

Date/Time 11/18/2011 0800 HRS AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time \_\_\_\_\_ AM  PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT  
LOVEL YOUNG AT 435.781.7051 FOR MORE

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>																														
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-6B4CS																															
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047514320000																															
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0432 FNL 2518 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH																															
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
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<b>SIGNATURE</b> N/A	<b>DATE</b> 11/1/2011																															

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
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<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047514320000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
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TYPE OF SUBMISSION	TYPE OF ACTION		
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The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for closed loop drilling options, and a production casing change. The production casing change includes a switch from 4-1/2" I-80 11.6 LB BTC/LTC casing to 4-1/2" I-80 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachments. Thank you.

**Accepted by the Utah Division of Oil, Gas and Mining**

Date: 11/10/2011

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/20/2011

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

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<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
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Date: 11/10/2011

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/20/2011	

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<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
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<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/1/2011	

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<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-6B4CS
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<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6514	<b>9. FIELD and POOL or WILDCAT:</b> MATRIL BUTTES
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0432 FNL 2518 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 MIRU AIR RIG ON NOV. 18, 2011. DRILLED SURFACE HOLE TO 2592'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regularatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/21/2011	

Sundry Number: 20537 API Well Number: 43047514320000

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751430	BONANZA 1023-6A2CS		NWNE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18293	10/28/2011			11/9/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL ON 10/28/2011 AT 1230 HRS. <u>BHL = NENE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751431	BONANZA 1023-6B4BS		NWNE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18293	10/29/2011			11/9/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL ON 10/29/2011 AT 1000 HRS. <u>BHL = NENE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751432	BONANZA 1023-6B4CS		NWNE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18294	10/28/2011			11/9/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL ON 10/28/2011 AT 0830 HRS. <u>BHL = NWNE</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

11/1/2011

Date

RECEIVED

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DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**FORM 9**

**5. LEASE DESIGNATION AND SERIAL NUMBER:**  
UTU33433

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7. UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**  
Gas Well

**8. WELL NAME and NUMBER:**  
BONANZA 1023-6B4CS

**2. NAME OF OPERATOR:**  
KERR-MCGEE OIL & GAS ONSHORE, L.P.

**9. API NUMBER:**  
43047514320000

**3. ADDRESS OF OPERATOR:** P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779  
**PHONE NUMBER:** 720 929-6515 Ext

**9. FIELD and POOL or WILDCAT:**  
NATURAL BUTTES

**4. LOCATION OF WELL**  
**FOOTAGES AT SURFACE:**  
0432 FNL 2518 FEL  
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**  
Qtr/Qtr: NWNE Section: 06 Township: 10.0S Range: 23.0E Meridian: S

**COUNTY:**  
UINTAH

**STATE:**  
UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/17/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; padding: 2px;">RIG REL. - ACTS PIT</span>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 MIRU ROTARY RIG. FINISHED DRILLING FROM 2592' TO 8765' ON DEC. 16, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 146 ON DEC. 17, 2011 @ 18:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regularatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/19/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-6B4CS	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047514320000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0432 FNL 2518 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 06 Township: 10.0S Range: 23.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> SOUTHERN BUTTES	
		<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/14/2012	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input checked="" type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 02/14/2012 AT 1800 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.</p>			
<p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 15, 2012</b></p>			
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock		<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/15/2012	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No. UTU33433

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
 Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name \_\_\_\_\_

7. Unit or CA Agreement Name and No. UTU60768

2. Name of Operator KERR MCGEE OIL & GAS ONSHORE; Contact: JAIME L. SCHARNOWSKE  
 Email: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No. BONANZA 1023-6B4CS

3. Address PO BOX 173779 DENVER, CO 80217 3a. Phone No. (include area code) Ph: 720-929-6304

9. API Well No. 43-047-51432

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface NWNE 432FNL 2518FEL 39.984057 N Lat, 109.369112 W Lon  
 At top prod interval reported below NWNE 1124FNL 1921FEL **BHL by HSM**  
 At total depth NWNE Lot 2 1152FNL 1921FEL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 6 T10S R23E Mer SLB

12. County or Parish UINTAH 13. State UT

14. Date Spudded 10/28/2011 15. Date T.D. Reached 12/16/2011 16. Date Completed  D & A  Ready to Prod. 02/14/2012

17. Elevations (DF, KB, RT, GL)\* 5222 GL

18. Total Depth: MD 8765 TVD 8645 19. Plug Back T.D.: MD 8703 TVD 8583 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SYNTHETIC COMBO-RSL/SM-CBL/GR/COLLARS/TEMP

22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit analysis)  
 Directional Survey?  No  Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Shurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2572		900		0	
7.875	4.500 I-80	11.6	0	8747		1346		1960	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7939							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5519	6528	5519 TO 6528	0.360	68	OPEN
B) MESAVERDE	7201	8573	7201 TO 8573	0.360	119	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5519 TO 8573	PUMP 6345 BBLs SLICK H2O & 156,954 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/14/2012	02/15/2012	24	→	0.0	2455.0	923.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1574	2168.0	→	0	2455	923		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
**SOLD**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1262
				BIRD'S NEST	1531
				MAHOGANY	2074
				WASATCH	4421
				MESAVERDE	6600

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12" bit. The remainder of surface hole was drilled with an 11" bit. DQX csg was run from surface to 5014'; LTC csg was run from 5014' to 8747'. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd.)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #133098 Verified by the BLM Well Information System.  
 For KERR MCGEE OIL & GAS ONSHORE, sent to the Vernal**

Name (please print) JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 03/15/2012

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

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN		Spud Date: 11/18/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-6B PAD	Rig Name No: ENSIGN 146/146, PROPETRO 11/11
Event: DRILLING		Start Date: 10/19/2011	End Date: 12/17/2011
Active Datum: RKB @5,236.00usft (above Mean Sea Level)		UWI: NW/NE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/18/2011	19:00 - 21:30	2.50	DRLSUR	01	A	P		SKID RIG 10' TO BONANZA 1023-6B4BS (WELL4 OF 4). INSTALL DIVERTOR HEAD AND BLUEY LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK AND PIPE RACKS. RIG UP PIT PUMP. RIG UP PUMP. PRIME PUMP. INSPECT RIG. HELD PRE-SPUD SAFETY MEETING. FINISH CLEANING UP LOCATION
	21:30 - 23:30	2.00	DRLSUR	02	D	P		PU 12.25 BIT/BHA, TIH, DRILL T/210'
	23:30 - 0:00	0.50	DRLSUR	06	A	P		POOH, LDDS, PU 11' BHA
11/19/2011	0:00 - 1:00	1.00	DRLSUR	06	A	P		POOH, PU, 11" BIT AND DIRECTIONAL TOOLS, TIH T/ 210'
	1:00 - 0:00	23.00	DRLSUR	02	D	P		DRILL 11" HOLE 210'- 2500'. (2290',99'/HR) RPM=50, WOB20K. PSI ON/OFF1800/1600. UP/DOWN/ ROT 90/60/75 K.
11/20/2011	0:00 - 2:00	2.00	DRLSUR	02	D	P		DRILL /2500' TO 2592'
	2:00 - 4:00	2.00	DRLSUR	05	C	P		CIRC AND COND BEFORE TOOH / CSG RUN
	4:00 - 8:30	4.50	DRLSUR	06	D	P		TOOH, LDDS, BHA & DIR. TOOLS.
	8:30 - 9:30	1.00	CSG	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U
	9:30 - 13:30	4.00	CSG	12	C	P		RUN 58 JTS 8 5/8, 28# CSNG. SHOE SET @ 2558', BAFFLE SET @ 2512'
	13:30 - 14:00	0.50	CSG	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES,. CEMENT HEAD, LOAD PLUG.
	14:00 - 19:00	5.00	CSG	13	A	P		PRESSURE TEST LINES TO 1500 PSI. PUMP 140BBLs OF WATER AHEAD. PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61.35 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 220 BBLs OF H2O. NO CIRC THROUGH OUT. FINAL LIFT OF 400 PSI AT 4 BBL/MIN. BUMP PLUG W/520 PSI HELD FOR 5 MIN. FLOAT HELD. PUMP (600 SX) OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE. SHUT DOWN AND CLEAN TRUCK. NO CEMENT TO SURFACE.
	19:00 - 19:30	0.50	RDMO	01	A	P		RELEASE RIG, MOVE TO NBU 921-8N
12/13/2011	19:00 - 20:00	1.00	MIRU	01	C	P		RDRT, SKID RIG, RURT
	20:00 - 21:00	1.00	DRLPRO	14	A	P		N/UP BOPE & TEST
	21:00 - 0:00	3.00	DRLPRO	15	A	P		TEST BOPE, RAMS, CHOKE, CHOKE LINE, MANUAL VALVES, FLOOR VALVES, HCR & IBOP 250 LOW 5000 HIGH, ANNULAR 250 LOW 2500 HIGH, CASING 1500
12/14/2011	0:00 - 1:00	1.00	DRLPRO	15	A	P		TEST BOPE, RAMS, CHOKE, CHOKE LINE, MANUAL VALVES, FLOOR VALVES, HCR & IBOP 250 LOW 5000 HIGH, ANNULAR 250 LOW 2500 HIGH, CASING 1500
	1:00 - 1:30	0.50	DRLPRO	14	B	P		INSTALL WEARBUSHING

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: ENSIGN 146/146, PROPETRO 11/11

Event: DRILLING

Start Date: 10/19/2011

End Date: 12/17/2011

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NWNE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	1:30 - 2:30	1.00	DRLPRO	06	A	P		P/UP HUNTING MUD MOTOR 1.83 DEG .21 RPG & HUGHES Q506F BIT, RIH DIRECTIONAL TOOLS SCRIBE & ORIENT,
	2:30 - 3:00	0.50	DRLPRO	08	B	Z		REPLACE SPINNER MOTOR ON IRON ROUGHNECK
	3:00 - 5:00	2.00	DRLPRO	06	A	P		RIH TAG CEMENT @ 2467'
	5:00 - 5:30	0.50	DRLPRO	07	B	P		LEVEL & CENTER DERRICK - INSTALL ROTATING HEAD
	5:30 - 6:30	1.00	DRLPRO	02	F	P		DRILL CEMENT, FE & RATHOLE F/2467' TO 2602'
	6:30 - 13:00	6.50	DRLPRO	02	D	P		DRILL/SLIDE F/2602' TO 3583' (981' @ 150fph) MW 8.4, VIS 28, WOB 20, RPM 45, MM RPM 115, TQ 4/8, SPM 112, GPM 550, PSI OFF/ON 1525/1900, PU 133, SO 103, ROT 115, SLIDE 2676 2688, 2767 2779, 2857 2872, 2948 2968, 3039 3055, 3129 3143, 3220 3238, 3311 3331, 3401 3411, 3492 3502, (SLIDE 147'/1.50 hrs 23% - ROT 834'/5 hrs 77%)
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SER
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL/SLIDE F/3583' TO 5575' (1992' @ 189fph) MW 84, VIS 28, WOB 20, RPM 45, MM RPM 115, TQ 7/10, SPM 112, GPM 550, PSI OFF/ON 1780/2100, PU 210, SO 140, ROTM 157, SLIDE 3764 3774, 4308 4318, 5305 5317 (SLIDE 32'/.50 hrs 4% - ROT 55743'/10 hrs 96%)
12/15/2011	0:00 - 14:00	14.00	DRLPRO	02	D	P		DRILL/SLIDE F/5575' TO 7118' (1543' @ 110fph) MW 8.4, VIS 28, WOB 20, RPM 35, MM RPM 102, TQ 8/11, SPM 100, GPM 490, PSI OFF/ON 1570/1950, PU 212, SO 148, ROT 172, SLIDE 6030 6042, 6121 6135, 6302 6316, 6483 9493 (SLIDE 50'/1 hr 7% - ROT 1493'/13 hrs 93%)
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SER
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL/SLIDE F/7118' TO 7895' (777' @ 81fph) MW 11.0, VIS 38, WOB 20, RPM 35, MM RPM 102, TQ 8/12, SPM 100, GPM 490M PSI OFF/ON /22752600, PU 255, SO 158, ROT 182L SLIDE 7208 7223, 7571 7583, 7662 7669 (SLIDE 34'/1.5 hrs 15% - ROT 743'/8 hrs 85%)
12/16/2011	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL/SLIDE F/7895' TO 8765' (870' @ 72fph) MW 11.4, VIS 39, WOB 22, RPM 35, MM RPM 102, TQ 8/11, SPM 100, GPM 490, PSI OFF/ON /23252600, PU 223, SO 159, ROT 188 (ROT 100%)
	12:00 - 14:00	2.00	DRLPRO	05	C	P		CIRC
	14:00 - 23:30	9.50	DRLPRO	06	D	P		POOH LDDP FOR PROD CASING - TIGHT @ 5200'
	23:30 - 0:00	0.50	DRLPRO	14	A	P		RETRIEVE WEARBUSHING
12/17/2011	0:00 - 9:00	9.00	CSG	12	C	P		HPJSM, R/UP FRANKS & RUN 209 JTS 4.5" PROD CASING, FLOOR SHOE 8746', FLOAT COLLAR 8701', MESA MKR 6573', X-OVER 4992
	9:00 - 10:00	1.00	CSG	05	D	P		CIRC

**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: ENSIGN 146/146, PROPETRO 11/11

Event: DRILLING

Start Date: 10/19/2011

End Date: 12/17/2011

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NWN/E/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 12:30	2.50	CSG	12	E	P		HPJSM, R/UP BJ & CEMENT 4.5" PROD CASING, TEST LINES 5000 PSI, PUMP 25 BBLS FRESH WATER, 426 SKS LEAD 12.0 PPG 2.26 YIELD, TAIL 920 SKS 14.3 PPG, 1.31 YIELD, DROPPED PLUG & DISPLACED W/132 BBLS FRESH WATER W/0.1 gal/bbl CLAYFIX II & 0.01 gal/bbl ALDACIDE G @ 2050 PSI, BUMPED PLUG @ 2450 PSI - FLOATS HELD W/1.5 BBLS RETURN, GOOD RETURNS DURING CMT JOB W/15 BBLS LEAD CEMENT TO SURFACE - R/DN BJ
	12:30 - 13:30	1.00	CSG	14	B	P		WASH OUT BOP - SET C-22 SLIPS W/90K STRING WEIGHT
	13:30 - 18:00	4.50	CSG	14	A	P		N/DN BOPE ROUGH CUT CASING, CLEAN RIG TANKS W/RNI SUPER SUCKER - RELEASE RIG @ 18:00 hrs

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6B4CS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-6B4CS	Wellbore Name	BONANZA 1023-6B4CS
Report No.	1	Report Date	2/1/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-6B PAD
Rig Name/No.		Event	COMPLETION
Start Date	2/1/2012	End Date	2/14/2012
Spud Date	11/18/2011	Active Datum	RKB @5,236.00usft (above Mean Sea Level)
UWI	NW/NE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type	KCL WATER	Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,519.0 (usft)-8,573.0 (usft)	Start Date/Time	2/14/2012 12:00AM
No. of Intervals	36	End Date/Time	2/14/2012 12:00AM
Total Shots	183	Net Perforation Interval	52.00 (usft)
Avg Shot Density	3.52 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/14/2012 12:00AM	WASATCH/			5,519.0	5,521.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/14/2012 12:00AM	WASATCH/			5,613.0	5,615.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			5,649.0	5,651.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			5,892.0	5,893.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			5,932.0	5,933.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			6,046.0	6,049.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			6,089.0	6,090.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			6,348.0	6,349.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			6,378.0	6,380.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			6,400.0	6,402.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	WASATCH/			6,526.0	6,528.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,201.0	7,203.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,350.0	7,352.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,394.0	7,396.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,462.0	7,464.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,530.0	7,532.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,572.0	7,573.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	Y
2/14/2012 12:00AM	MESAVERDE/			7,610.0	7,612.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,680.0	7,681.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,722.0	7,723.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,796.0	7,798.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,844.0	7,845.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

## 2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
2/14/2012 12:00AM	MESAVERDE/			7,894.0	7,896.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,934.0	7,935.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			7,980.0	7,981.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,012.0	8,013.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,046.0	8,047.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,116.0	8,117.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,132.0	8,133.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,174.0	8,175.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,196.0	8,197.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,268.0	8,269.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,318.0	8,319.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,354.0	8,355.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,380.0	8,381.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,534.0	8,535.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
2/14/2012 12:00AM	MESAVERDE/			8,572.0	8,573.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

## 3 Plots

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/1/2012

End Date: 2/14/2012

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NW/NE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/16/2012	-							
2/1/2012	8:00 - 8:15	0.25	COMP	48		P		HELD SAFETY MEETING: HYDROLIC VALVES FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 31 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 34 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 68 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SMFW
	8:15 - 19:31	11.27	COMP	33		P		
2/3/2012	7:45 - 8:00	0.25	COMP	48		P		HELD SAFETY MEETING: ARMING GUNS  PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SMFW
	8:00 - 12:00	4.00	COMP	37		P		
2/6/2012	7:00 - 8:00	1.00	COMP	48		P		HSM, OPENING & CLOSING FRAC VALVES / PRESSURE TEST SURFACE LINES TO 8000#

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/1/2012

End Date: 2/14/2012

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NW/NE/0/10/S/23/E/6/0/0/26/PM/N432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 17:00	9.00	COMP	36	B	P		<p>PERF &amp; FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND &amp; SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUMP'D</p> <p>FRAC STG #1] WHP=1,815#, BRK DN PERFS=3,771#, @=3.8 BPM, INJ RT=51.7, INJ PSI=59.7#, INITIAL ISIP=2,906#, INITIAL FG=.78, FINAL ISIP=2,535#, FINAL FG=.74, AVERAGE RATE=47.9, AVERAGE PRESSURE=4,605#, MAX RATE=56.7, MAX PRESSURE=6,650#, NET PRESSURE INCREASE=-371#, 21/24 88% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=8,227', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=2,372#, BRK DN PERFS=3,530#, @=4 BPM, INJ RT=51.3, INJ PSI=4,523#, INITIAL ISIP=2,720#, INITIAL FG=.77, FINAL ISIP=2,667#, FINAL FG=.77, AVERAGE RATE=50.3, AVERAGE PRESSURE=4,346#, MAX RATE=52.1, MAX PRESSURE=5,799#, NET PRESSURE INCREASE=-53#, 23/23 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=7,965', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=1,174#, BRK DN PERFS=5,771#, @=4 BPM, INJ RT=46.1, INJ PSI=3,807#, INITIAL ISIP=3,000#, INITIAL FG=.81, FINAL ISIP=2,155#, FINAL FG=.71, AVERAGE RATE=46.7, AVERAGE PRESSURE=3,695#, MAX RATE=47, MAX PRESSURE=7,178#, NET PRESSURE INCREASE=-845#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=7,753', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW.</p> <p>FRAC STG #4] WHP=950#, BRK DN PERFS=3,463#, @=4 BPM, INJ RT=49.7, INJ PSI=4,025#, INITIAL ISIP=2,241#, INITIAL FG=.73, FINAL ISIP=2,167#, FINAL FG=.72, AVERAGE RATE=50, AVERAGE PRESSURE=3,764#, MAX RATE=50.4, MAX PRESSURE=4,475#, NET PRESSURE INCREASE=-74#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p>

**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/1/2012

End Date: 2/14/2012

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NW/NE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/7/2012	6:45 - 7:00	0.25	COMP	48		P		PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,494', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW SWM FN HSM, SLIPS, TRIPS, AND FALLS, FRAC VALVES

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/1/2012

End Date: 2/14/2012

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NW/NE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 16:00	9.00	COMP	36	B	P		<p>DXXFRAC STG #5] WHP=1,216#, BRK DN PERFS=2,917#, @=3.8 BPM, INJ RT=50.2, INJ PSI=3,911#, INITIAL ISIP=2,179#, INITIAL FG=.74, FINAL ISIP=4,888#, FINAL FG=.77, AVERAGE RATE=49.9, AVERAGE PRESSURE=3,774#, MAX RATE=50.5, MAX PRESSURE=4,888#, NET PRESSURE INCREASE=235#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=6,558', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=527#, BRK DN PERFS=2,294#, @=4.1 BPM, INJ RT=50.3, INJ PSI=3,677#, INITIAL ISIP=1,426#, INITIAL FG=.66, FINAL ISIP=2,277#, FINAL FG=.79, AVERAGE RATE=50.3, AVERAGE PRESSURE=3,577#, MAX RATE=50.6, MAX PRESSURE=3,970#, NET PRESSURE INCREASE=851#, 23/23 10% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=6,120', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #7] WHP=672#, BRK DN PERFS=2,161#, @=4.2 BPM, INJ RT=50.8, INJ PSI=3,116#, INITIAL ISIP=1,322#, INITIAL FG=.66, FINAL ISIP=1,570#, FINAL FG=.70, AVERAGE RATE=50.5, AVERAGE PRESSURE=2,991#, MAX RATE=51.2, MAX PRESSURE=3,714#, NET PRESSURE INCREASE=248#, 21/21 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=5,681', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=430#, BRK DN PERFS=3,873#, @=3.8 BPM, INJ RT=50.2, INJ PSI=3,116#, INITIAL ISIP=1,574#, INITIAL FG=.72, FINAL ISIP=1,819#, FINAL FG=.76, AVERAGE RATE=50.5, AVERAGE PRESSURE=3,553#, MAX RATE=51.3, MAX PRESSURE=6,125#, NET PRESSURE INCREASE=245#, 15/24 72% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>P/U RIH W/ MAGNUM 8K CBP, SET FOR TOP KILL @=5,469'</p> <p>TOTAL FLUID PUMP'D=6,345 BBLs TOTAL SAND PUMP'D=156,954#</p>

**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-6B4CS GREEN

Spud Date: 11/18/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6B PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/1/2012

End Date: 2/14/2012

Active Datum: RKB @5,236.00usft (above Mean Sea Level)

UWI: NW/NE/0/10/S/23/E/6/0/0/26/PM/N/432.00/E/0/2,518.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/14/2012	7:00 - 7:15	0.25	COMP	48		P		JSA- PU TBG. D/O PLUGS. LAND TBG. ND/NU. RDSU.
	7:15 - 18:00	10.75	COMP	44	C	P		SPOT TBG. MU 3-7/8" BIT, POBS, 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 5464' W/ 174-JTS IN. RU DRLG EQUIP. FILL TBG. PRES TEST BOP TO 3000#. EST CIRC AND D/O PLUGS.
								#1- C/O 5' SAND TO CBP AT 5469'. D/O IN 20 MIN. 0# INC. 0# FCP. RIH. #2- C/O 10' SAND TO CBP AT 5678'. D/O IN 3 MIN. 200# INC. 0-0# FCP. RIH. #3- C/O 60' SAND TO CBP AT 6120'. D/O IN 2 MIN. 0# INC. 0-0# FCP. RIH. #4- C/O 25' SAND TO CBP AT 6562'. D/O IN 4 MIN. 400# INC. 0-1200# FCP. RIH. #5- C/O 12' SAND TO CBP AT 7494'. D/O IN 5 MIN. 600# INC. 400-700# FCP. RIH. #6- C/O 15' SAND TO CBP AT 7753'. D/O IN 7 MIN. 400# INC. 700-900# FCP. RIH. #7- C/O 15' SAND TO CBP AT 7965'. D/O IN 7 MIN. 500# INC. 700-800# FCP. RIH. #8- C/O 25' SAND TO CBP AT 8227'. D/O IN 8 MIN. 400# INC. 600-800# FCP. RIH. PBTD AT 8702'. BTM PERF 8573'. C/O 60' TO 8686' W/ 274-JTS IN (113' RATHOLE). CIRC CLEAN.
								RD PWR SWMVEL. POOH AS LD 24-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 250-JTS 2-3/8" L-80 TBG W/ EOT AT '. RD FLOOR. ND BOP. NU WH. HOOK UP FLOW LINES. POBS AT 1100#. PRES TEST FLOW LINES TO 3000#. TURN OVER TO FBC AND SALES. RDSU AND MOVE OFF PAD.
								TBG DETAIL KB 14.00 4" 10K HANGER .83 250-JTS 2-3/8" L-80 TBG 7921.84 1.87" XN POBS 2.20 EOT 7938.87
								283-JTS DELIVERED, 33-JTS RETURNED
	18:00 - 18:00	0.00	PROD	50				TLTR 6345, TLR 1450, LTR 4895. WELL TURNED TO SALES @ 1800 HR ON 2/14/2012 - 3000 MCFD, 1920 BWP, FCP 2000#, FTP 850#, 20/64 CK
2/15/2012	7:00 -		PROD	50				WELL IP'D ON 2/15/12 - 2455 MCFD, 0 BOPD, 923 BWP, CP 2168#, FTP 1574#, CK 20/64", LP 106#, 24 HRS

Project: UTAH - UTM (feet), NAD27, Zone 12N  
 Site: UINTAH\_BONANZA 1023-6B PAD  
 Well: BONANZA 1023-6B4CS  
 Wellbore: BONANZA 1023-6B4CS  
 Section:  
 SHL:  
 Design: BONANZA 1023-6B4CS  
 Latitude: 39.984091  
 Longitude: -109.368432  
 GL: 5222.00  
 KB: 14' RKB + 5222' GL @ 5236.00ft

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4313.00	4433.91	Top Wasatch:
4913.00	5033.91	top of cylinder
6456.00	6576.94	Top Mesaverde:
8629.00	8749.98	Top Segoo:

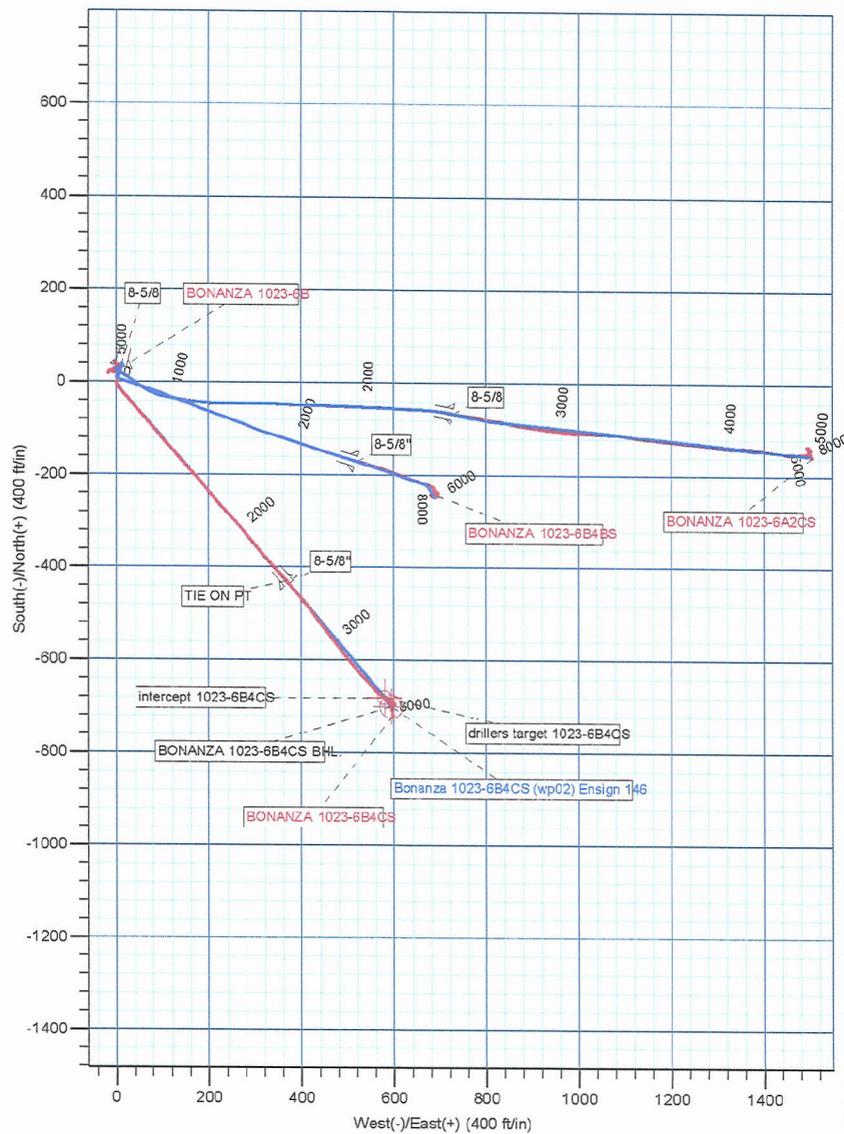
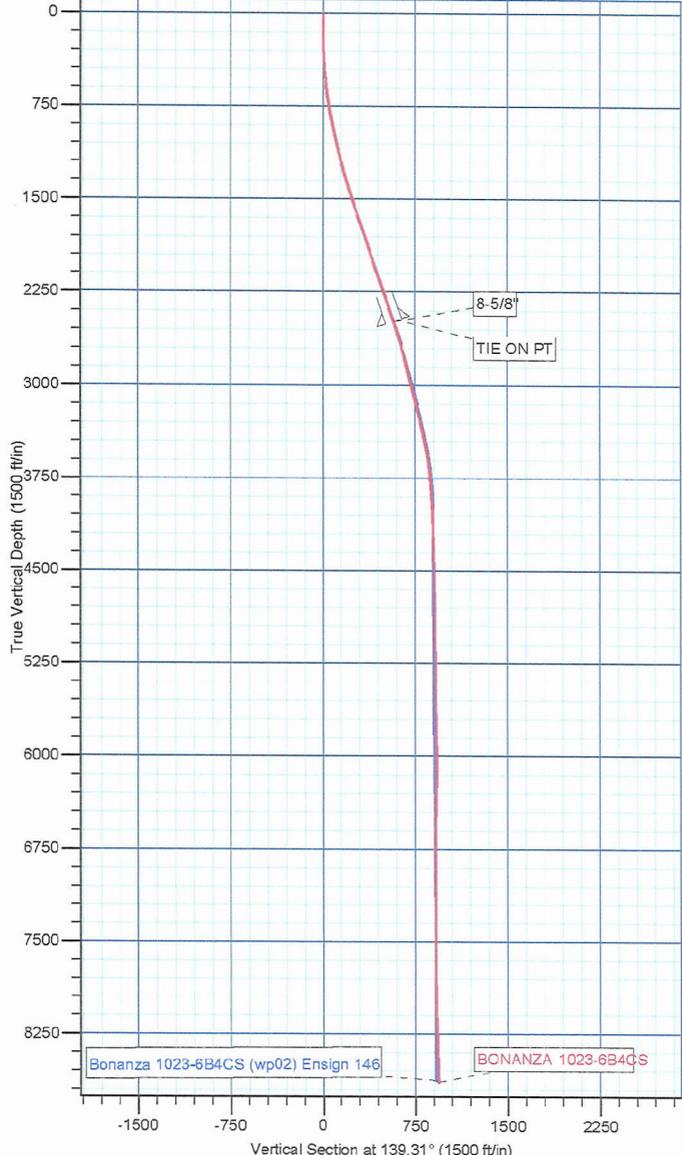
WELL DETAILS: BONANZA 1023-6B4CS					
+N/-S	+E/-W	Northing	Ground Level: Easting	5222.00 Latitude	5222.00 Longitude
0.00	0.00	14524433.58	2097467.75	39.984091	-109.368432
					Slot

CASING DETAILS			
TVD	MD	Name	Size
2486.08	2568.00	8-5/8"	8-5/8"

Azimuths to True North  
 Magnetic North: 10.97°  
 Magnetic Field  
 Strength: 52298.65nT  
 Dip Angle: 65.87°  
 Date: 11/1/2011  
 Model: IGRF2010

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
drillers target 1023-6B4CS	4079.00	-680.75	578.46	14523763.53	2098058.57	39.982222	-109.366368	Circle (Radius: 15.00)	
intercept 1023-6B4CS	4913.00	-682.00	579.40	14523762.30	2098059.53	39.982219	-109.366364	Point	
BONANZA 1023-6B4CS BHL	8629.00	-700.75	593.46	14523743.81	2098073.93	39.982167	-109.366314	Circle (Radius: 25.00)	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
2540.00	18.80	139.34	2459.57	-428.18	366.14	0.00	0.00	563.37	
2690.00	18.80	139.34	2601.57	-464.85	397.64	0.00	0.00	611.71	
2911.79	14.37	140.16	2814.08	-513.12	438.58	2.00	177.38	675.00	
3378.75	14.37	140.16	3266.43	-602.10	512.83	0.00	0.00	790.89	
4199.91	0.00	0.00	4079.00	-680.75	578.46	1.75	180.00	893.33	
5659.81	0.38	143.14	5538.90	-684.57	581.33	0.03	143.14	898.10	
8749.98	0.38	143.14	8629.00	-700.75	593.46	0.00	0.00	918.29	



# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	UINTAH_BONANZA 1023-6B PAD				
<b>Site Position:</b>		<b>Northing:</b>	14,524,463.43 usft	<b>Latitude:</b>	39.984173
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,466.36 usft	<b>Longitude:</b>	-109.368435
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.05 °

<b>Well</b>	BONANZA 1023-6B4CS					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,433.59 usft	<b>Latitude:</b>	39.984091
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,097,467.75 usft	<b>Longitude:</b>	-109.368432
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,222.00 ft

<b>Wellbore</b>	BONANZA 1023-6B4CS				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2010	11/1/2011	(°)	(°)	(nT)
			10.97	65.87	52,299

<b>Design</b>	BONANZA 1023-6B4CS				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	10.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	10.00	0.00	0.00	139.31	

<b>Survey Program</b>	Date 12/29/2011				
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(ft)	(ft)				
183.00	2,540.00	Survey #1 (BONANZA 1023-6B4CS)	MWD	MWD - Standard	
2,626.00	8,765.00	Survey #2 (BONANZA 1023-6B4CS)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Vertical</b>	<b>Dogleg</b>	<b>Build</b>	<b>Turn</b>	
<b>Depth</b>	<b>(°)</b>	<b>(°)</b>	<b>Depth</b>	<b>(ft)</b>	<b>(ft)</b>	<b>Section</b>	<b>Rate</b>	<b>Rate</b>	<b>Rate</b>	
<b>(ft)</b>			<b>(ft)</b>			<b>(ft)</b>	<b>(°/100usft)</b>	<b>(°/100usft)</b>	<b>(°/100usft)</b>	
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
183.00	0.90	180.43	182.99	-1.36	-0.01	1.02	0.52	0.52	0.00	
268.00	2.22	165.87	267.96	-3.62	0.39	3.00	1.61	1.55	-17.13	
350.00	2.89	153.89	349.88	-7.02	1.68	6.42	1.04	0.82	-14.61	
440.00	4.31	144.88	439.70	-11.82	4.63	11.98	1.69	1.58	-10.01	
530.00	5.88	135.00	529.34	-17.85	9.83	19.95	1.99	1.74	-10.98	
620.00	7.69	138.13	618.71	-25.59	17.11	30.56	2.05	2.01	3.48	
710.00	8.94	138.75	707.76	-35.34	25.74	43.58	1.39	1.39	0.69	
800.00	9.56	138.38	796.59	-46.18	35.32	58.04	0.69	0.69	-0.41	
890.00	11.25	140.25	885.11	-58.52	45.90	74.29	1.91	1.88	2.08	

# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
980.00	12.19	139.38	973.23	-72.48	57.70	92.58	1.06	1.04	-0.97
1,070.00	13.38	138.63	1,061.00	-87.51	70.77	112.49	1.33	1.32	-0.83
1,160.00	14.38	139.63	1,148.37	-103.84	84.89	134.08	1.14	1.11	1.11
1,250.00	15.50	140.00	1,235.32	-121.57	99.86	157.28	1.25	1.24	0.41
1,340.00	16.88	138.88	1,321.75	-140.62	116.18	182.37	1.57	1.53	-1.24
1,430.00	18.19	138.88	1,407.57	-161.05	134.01	209.49	1.46	1.46	0.00
1,520.00	18.94	137.88	1,492.89	-182.47	153.05	238.14	0.91	0.83	-1.11
1,610.00	18.00	137.38	1,578.25	-203.53	172.26	266.64	1.06	-1.04	-0.56
1,700.00	17.50	141.25	1,663.97	-224.32	190.15	294.06	1.42	-0.56	4.30
1,790.00	18.31	140.38	1,749.61	-245.76	207.63	321.72	0.95	0.90	-0.97
1,880.00	18.56	137.50	1,834.99	-267.21	226.32	350.17	1.05	0.28	-3.20
1,970.00	19.00	136.63	1,920.20	-288.42	246.06	379.12	0.58	0.49	-0.97
2,060.00	18.56	139.75	2,005.41	-310.01	265.38	408.08	1.22	-0.49	3.47
2,150.00	19.06	142.00	2,090.60	-332.52	283.68	437.08	0.98	0.56	2.50
2,240.00	19.31	141.13	2,175.61	-355.69	302.07	466.63	0.42	0.28	-0.97
2,330.00	18.81	138.13	2,260.67	-378.08	321.09	496.01	1.22	-0.56	-3.33
2,420.00	18.63	137.25	2,345.91	-399.44	340.53	524.89	0.37	-0.20	-0.98
2,540.00	18.80	139.34	2,459.57	-428.18	366.14	563.38	0.58	0.14	1.74
2,626.00	18.14	140.19	2,541.14	-448.98	383.74	590.62	0.83	-0.77	0.99
2,717.00	16.72	141.44	2,627.96	-470.10	400.97	617.87	1.61	-1.56	1.37
2,807.00	15.01	142.21	2,714.53	-489.43	416.18	642.45	1.91	-1.90	0.86
2,898.00	14.13	142.88	2,802.60	-507.60	430.11	665.30	0.98	-0.97	0.74
2,989.00	14.81	142.75	2,890.71	-525.72	443.85	688.00	0.75	0.75	-0.14
3,079.00	14.63	142.63	2,977.76	-543.90	457.71	710.83	0.20	-0.20	-0.13
3,170.00	14.00	142.88	3,065.93	-561.81	471.33	733.29	0.70	-0.69	0.27
3,261.00	13.69	140.63	3,154.29	-578.92	484.81	755.04	0.68	-0.34	-2.47
3,351.00	14.13	139.63	3,241.65	-595.52	498.68	776.67	0.56	0.49	-1.11
3,442.00	13.25	141.63	3,330.06	-612.16	512.34	798.20	1.10	-0.97	2.20
3,533.00	12.44	141.13	3,418.79	-627.97	524.97	818.42	0.90	-0.89	-0.55
3,623.00	10.46	138.13	3,506.99	-641.60	536.51	836.28	2.30	-2.20	-3.33
3,714.00	7.75	134.00	3,596.84	-652.01	546.44	850.65	3.06	-2.98	-4.54
3,805.00	6.75	137.38	3,687.11	-660.21	554.47	862.10	1.19	-1.10	3.71
3,895.00	5.00	133.00	3,776.63	-666.78	560.92	871.29	2.01	-1.94	-4.87
3,986.00	4.00	130.38	3,867.35	-671.54	566.24	878.36	1.12	-1.10	-2.88
4,076.00	3.31	133.38	3,957.17	-675.36	570.52	884.05	0.80	-0.77	3.33
4,167.00	3.00	134.25	4,048.03	-678.82	574.13	889.03	0.34	-0.34	0.96
4,258.00	2.88	139.50	4,138.91	-682.22	577.32	893.69	0.32	-0.13	5.77
4,349.00	1.75	103.25	4,229.84	-684.28	580.16	897.10	1.97	-1.24	-39.84
4,439.00	1.69	106.00	4,319.80	-684.96	582.78	899.32	0.11	-0.07	3.06
4,530.00	1.44	116.63	4,410.77	-685.85	585.09	901.50	0.42	-0.27	11.68
4,621.00	0.81	130.75	4,501.75	-686.78	586.60	903.19	0.75	-0.69	15.52
4,711.00	0.81	120.38	4,591.74	-687.51	587.63	904.42	0.16	0.00	-11.52
4,802.00	0.75	123.63	4,682.73	-688.17	588.68	905.60	0.08	-0.07	3.57

# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,892.00	0.69	112.38	4,772.72	-688.70	589.67	906.65	0.17	-0.07	-12.50
4,983.00	0.88	125.13	4,863.71	-689.31	590.75	907.82	0.28	0.21	14.01
5,074.00	0.88	119.75	4,954.70	-690.06	591.93	909.15	0.09	0.00	-5.91
5,164.00	1.00	129.75	5,044.69	-690.91	593.13	910.58	0.23	0.13	11.11
5,255.00	1.25	122.63	5,135.67	-691.95	594.58	912.31	0.31	0.27	-7.82
5,345.00	0.38	43.38	5,225.67	-692.26	595.61	913.22	1.37	-0.97	-88.06
5,436.00	0.44	96.75	5,316.66	-692.08	596.16	913.45	0.41	0.07	58.65
5,527.00	0.31	143.25	5,407.66	-692.32	596.66	913.95	0.35	-0.14	51.10
5,617.00	0.44	146.50	5,497.66	-692.81	596.99	914.54	0.15	0.14	3.61
5,708.00	0.69	155.25	5,588.66	-693.59	597.42	915.41	0.29	0.27	9.62
5,799.00	0.75	156.38	5,679.65	-694.64	597.88	916.51	0.07	0.07	1.24
5,889.00	0.94	152.38	5,769.64	-695.83	598.46	917.79	0.22	0.21	-4.44
5,980.00	1.00	144.50	5,860.63	-697.14	599.27	919.31	0.16	0.07	-8.66
6,071.00	0.69	144.25	5,951.62	-698.23	600.05	920.64	0.34	-0.34	-0.27
6,161.00	0.56	354.63	6,041.61	-698.23	600.33	920.83	1.34	-0.14	-166.24
6,252.00	0.38	8.50	6,132.61	-697.49	600.33	920.27	0.23	-0.20	15.24
6,343.00	1.69	353.38	6,223.59	-695.86	600.22	918.96	1.46	1.44	-16.62
6,433.00	1.56	358.88	6,313.56	-693.32	600.04	916.91	0.23	-0.14	6.11
6,524.00	1.56	328.00	6,404.53	-691.03	599.36	914.73	0.91	0.00	-33.93
6,615.00	0.94	335.38	6,495.50	-689.30	598.39	912.79	0.70	-0.68	8.11
6,705.00	0.69	321.50	6,585.49	-688.20	597.75	911.54	0.35	-0.28	-15.42
6,796.00	0.38	316.88	6,676.49	-687.55	597.20	910.69	0.34	-0.34	-5.08
6,977.00	0.44	161.38	6,857.49	-687.77	597.01	910.74	0.44	0.03	-85.91
7,068.00	0.63	165.50	6,948.49	-688.59	597.25	911.51	0.21	0.21	4.53
7,158.00	0.94	166.25	7,038.48	-689.79	597.55	912.61	0.34	0.34	0.83
7,249.00	0.06	187.13	7,129.47	-690.56	597.72	913.31	0.97	-0.97	22.95
7,340.00	0.31	171.50	7,220.47	-690.85	597.75	913.55	0.28	0.27	-17.18
7,430.00	1.00	170.63	7,310.47	-691.87	597.92	914.43	0.77	0.77	-0.97
7,521.00	0.94	157.63	7,401.45	-693.34	598.33	915.81	0.25	-0.07	-14.29
7,612.00	0.75	260.50	7,492.45	-694.13	598.03	916.21	1.46	-0.21	113.04
7,702.00	1.25	291.75	7,582.43	-693.86	596.53	915.04	0.80	0.56	34.72
7,793.00	0.81	283.63	7,673.42	-693.34	594.99	913.64	0.51	-0.48	-8.92
7,883.00	0.50	260.63	7,763.41	-693.26	593.98	912.91	0.45	-0.34	-25.56
7,974.00	0.88	195.38	7,854.41	-693.99	593.40	913.10	0.89	0.42	-71.70
8,065.00	1.56	181.75	7,945.39	-695.91	593.18	914.40	0.81	0.75	-14.98
8,155.00	2.19	168.00	8,035.34	-698.81	593.50	916.82	0.86	0.70	-15.28
8,246.00	2.44	170.88	8,126.26	-702.43	594.17	919.99	0.30	0.27	3.16
8,337.00	2.38	173.13	8,217.18	-706.21	594.70	923.21	0.12	-0.07	2.47
8,427.00	2.13	169.63	8,307.11	-709.72	595.23	926.21	0.32	-0.28	-3.89
8,518.00	1.88	159.13	8,398.06	-712.77	596.06	929.07	0.49	-0.27	-11.54
8,609.00	1.44	166.00	8,489.02	-715.28	596.87	931.50	0.53	-0.48	7.55
8,715.00	1.71	178.92	8,594.98	-718.15	597.22	933.91	0.42	0.25	12.19
8,765.00	1.71	178.92	8,644.96	-719.64	597.25	935.06	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,540.00	2,459.57	-428.18	366.14	TIE ON PT
8,715.00	8,594.98	-718.15	597.22	LAST SVY
8,765.00	8,644.96	-719.64	597.25	PROJECTION

Checked By: _____	Approved By: _____	Date: _____
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# **US ROCKIES REGION PLANNING**

**UTAH - UTM (feet), NAD27, Zone 12N**

**UINTAH\_BONANZA 1023-6B PAD**

**BONANZA 1023-6B4CS**

**BONANZA 1023-6B4CS**

**Design: BONANZA 1023-6B4CS**

## **Survey Report - Geographic**

**29 December, 2011**

# Anadarko Petroleum Corp

## Survey Report - Geographic

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b> UINTAH_BONANZA 1023-6B PAD			
<b>Site Position:</b>		<b>Northing:</b>	14,524,463.43 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,466.36 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	39.984173
		<b>Longitude:</b>	-109.368435
		<b>Grid Convergence:</b>	1.05 °

<b>Well</b> BONANZA 1023-6B4CS			
<b>Well Position</b>	+N/-S	0.00 ft	<b>Northing:</b> 14,524,433.59 usft
	+E/-W	0.00 ft	<b>Easting:</b> 2,097,467.75 usft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b> ft
			<b>Latitude:</b> 39.984091
			<b>Longitude:</b> -109.368432
			<b>Ground Level:</b> 5,222.00 ft

<b>Wellbore</b> BONANZA 1023-6B4CS					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/1/2011	10.97	65.87	52,299

<b>Design</b> BONANZA 1023-6B4CS					
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	10.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	10.00	0.00	0.00	139.31	

<b>Survey Program</b> Date 12/29/2011					
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
183.00	2,540.00	Survey #1 (BONANZA 1023-6B4CS)	MWD	MWD - Standard	
2,626.00	8,765.00	Survey #2 (BONANZA 1023-6B4CS)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10.00	0.00	0.00	10.00	0.00	0.00	14,524,433.59	2,097,467.75	39.984091	-109.368432
183.00	0.90	180.43	182.99	-1.36	-0.01	14,524,432.23	2,097,467.76	39.984087	-109.368432
268.00	2.22	165.87	267.96	-3.62	0.39	14,524,429.97	2,097,468.20	39.984081	-109.368431
350.00	2.89	153.89	349.88	-7.02	1.68	14,524,426.60	2,097,469.56	39.984072	-109.368426
440.00	4.31	144.88	439.70	-11.82	4.63	14,524,421.85	2,097,472.59	39.984059	-109.368416
530.00	5.88	135.00	529.34	-17.85	9.83	14,524,415.92	2,097,477.91	39.984042	-109.368397
620.00	7.69	138.13	618.71	-25.59	17.11	14,524,408.31	2,097,485.33	39.984021	-109.368371
710.00	8.94	138.75	707.76	-35.34	25.74	14,524,398.73	2,097,494.13	39.983994	-109.368340
800.00	9.56	138.38	796.59	-46.18	35.32	14,524,388.06	2,097,503.91	39.983964	-109.368306
890.00	11.25	140.25	885.11	-58.52	45.90	14,524,375.92	2,097,514.71	39.983930	-109.368268
980.00	12.19	139.38	973.23	-72.48	57.70	14,524,362.17	2,097,526.76	39.983892	-109.368226

# Anadarko Petroleum Corp

## Survey Report - Geographic

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,070.00	13.38	138.63	1,061.00	-87.51	70.77	14,524,347.39	2,097,540.10	39.983851	-109.368180	
1,160.00	14.38	139.63	1,148.37	-103.84	84.89	14,524,331.32	2,097,554.52	39.983806	-109.368129	
1,250.00	15.50	140.00	1,235.32	-121.57	99.86	14,524,313.87	2,097,569.81	39.983757	-109.368076	
1,340.00	16.88	138.88	1,321.75	-140.62	116.18	14,524,295.11	2,097,586.48	39.983705	-109.368018	
1,430.00	18.19	138.88	1,407.57	-161.05	134.01	14,524,275.02	2,097,604.68	39.983649	-109.367954	
1,520.00	18.94	137.88	1,492.89	-182.47	153.05	14,524,253.95	2,097,624.11	39.983590	-109.367886	
1,610.00	18.00	137.38	1,578.25	-203.53	172.26	14,524,233.24	2,097,643.70	39.983532	-109.367817	
1,700.00	17.50	141.25	1,663.97	-224.32	190.15	14,524,212.78	2,097,661.97	39.983475	-109.367754	
1,790.00	18.31	140.38	1,749.61	-245.76	207.63	14,524,191.66	2,097,679.84	39.983416	-109.367691	
1,880.00	18.56	137.50	1,834.99	-267.21	226.32	14,524,170.56	2,097,698.92	39.983357	-109.367625	
1,970.00	19.00	136.63	1,920.20	-288.42	246.06	14,524,149.71	2,097,719.05	39.983299	-109.367554	
2,060.00	18.56	139.75	2,005.41	-310.01	265.38	14,524,128.49	2,097,738.75	39.983240	-109.367485	
2,150.00	19.06	142.00	2,090.60	-332.52	283.68	14,524,106.31	2,097,757.46	39.983178	-109.367420	
2,240.00	19.31	141.13	2,175.61	-355.69	302.07	14,524,083.49	2,097,776.27	39.983115	-109.367354	
2,330.00	18.81	138.13	2,260.67	-378.08	321.09	14,524,061.45	2,097,795.70	39.983053	-109.367286	
2,420.00	18.63	137.25	2,345.91	-399.44	340.53	14,524,040.45	2,097,815.53	39.982994	-109.367217	
2,540.00	18.80	139.34	2,459.57	-428.18	366.14	14,524,012.18	2,097,841.66	39.982915	-109.367126	
2,626.00	18.14	140.19	2,541.14	-448.98	383.74	14,523,991.71	2,097,859.64	39.982858	-109.367063	
2,717.00	16.72	141.44	2,627.96	-470.10	400.97	14,523,970.91	2,097,877.25	39.982800	-109.367001	
2,807.00	15.01	142.21	2,714.53	-489.43	416.18	14,523,951.85	2,097,892.82	39.982747	-109.366947	
2,898.00	14.13	142.88	2,802.60	-507.60	430.11	14,523,933.94	2,097,907.07	39.982697	-109.366897	
2,989.00	14.81	142.75	2,890.71	-525.72	443.85	14,523,916.08	2,097,921.15	39.982648	-109.366848	
3,079.00	14.63	142.63	2,977.76	-543.90	457.71	14,523,898.15	2,097,935.34	39.982598	-109.366799	
3,170.00	14.00	142.88	3,065.93	-561.81	471.33	14,523,880.49	2,097,949.28	39.982549	-109.366750	
3,261.00	13.69	140.63	3,154.29	-578.92	484.81	14,523,863.64	2,097,963.06	39.982502	-109.366702	
3,351.00	14.13	139.63	3,241.65	-595.52	498.68	14,523,847.29	2,097,977.24	39.982456	-109.366653	
3,442.00	13.25	141.63	3,330.06	-612.16	512.34	14,523,830.91	2,097,991.21	39.982410	-109.366604	
3,533.00	12.44	141.13	3,418.79	-627.97	524.97	14,523,815.33	2,098,004.12	39.982367	-109.366559	
3,623.00	10.46	138.13	3,506.99	-641.60	536.51	14,523,801.91	2,098,015.91	39.982330	-109.366518	
3,714.00	7.75	134.00	3,596.84	-652.01	546.44	14,523,791.68	2,098,026.02	39.982301	-109.366482	
3,805.00	6.75	137.38	3,687.11	-660.21	554.47	14,523,783.63	2,098,034.21	39.982278	-109.366453	
3,895.00	5.00	133.00	3,776.63	-666.78	560.92	14,523,777.18	2,098,040.78	39.982260	-109.366430	
3,986.00	4.00	130.38	3,867.35	-671.54	566.24	14,523,772.52	2,098,046.18	39.982247	-109.366411	
4,076.00	3.31	133.38	3,957.17	-675.36	570.52	14,523,768.78	2,098,050.53	39.982237	-109.366396	
4,167.00	3.00	134.25	4,048.03	-678.82	574.13	14,523,765.38	2,098,054.21	39.982227	-109.366383	
4,258.00	2.88	139.50	4,138.91	-682.22	577.32	14,523,762.04	2,098,057.46	39.982218	-109.366372	
4,349.00	1.75	103.25	4,229.84	-684.28	580.16	14,523,760.04	2,098,060.33	39.982212	-109.366362	
4,439.00	1.69	106.00	4,319.80	-684.96	582.78	14,523,759.40	2,098,062.96	39.982210	-109.366352	
4,530.00	1.44	116.63	4,410.77	-685.85	585.09	14,523,758.56	2,098,065.29	39.982208	-109.366344	
4,621.00	0.81	130.75	4,501.75	-686.78	586.60	14,523,757.66	2,098,066.81	39.982205	-109.366339	
4,711.00	0.81	120.38	4,591.74	-687.51	587.63	14,523,756.94	2,098,067.86	39.982202	-109.366335	
4,802.00	0.75	123.63	4,682.73	-688.17	588.68	14,523,756.31	2,098,068.92	39.982202	-109.366331	
4,892.00	0.69	112.38	4,772.72	-688.70	589.67	14,523,755.79	2,098,069.92	39.982200	-109.366328	
4,983.00	0.88	125.13	4,863.71	-689.31	590.75	14,523,755.20	2,098,071.01	39.982199	-109.366324	
5,074.00	0.88	119.75	4,954.70	-690.06	591.93	14,523,754.47	2,098,072.20	39.982196	-109.366320	
5,164.00	1.00	129.75	5,044.69	-690.91	593.13	14,523,753.65	2,098,073.42	39.982194	-109.366315	
5,255.00	1.25	122.63	5,135.67	-691.95	594.58	14,523,752.63	2,098,074.89	39.982191	-109.366310	
5,345.00	0.38	43.38	5,225.67	-692.26	595.61	14,523,752.34	2,098,075.92	39.982190	-109.366307	
5,436.00	0.44	96.75	5,316.66	-692.08	596.16	14,523,752.53	2,098,076.48	39.982191	-109.366305	
5,527.00	0.31	143.25	5,407.66	-692.32	596.66	14,523,752.30	2,098,076.97	39.982190	-109.366303	
5,617.00	0.44	146.50	5,497.66	-692.81	596.99	14,523,751.82	2,098,077.32	39.982189	-109.366302	
5,708.00	0.69	155.25	5,588.66	-693.59	597.42	14,523,751.04	2,098,077.76	39.982187	-109.366300	
5,799.00	0.75	156.38	5,679.65	-694.64	597.88	14,523,750.01	2,098,078.24	39.982184	-109.366298	
5,889.00	0.94	152.38	5,769.64	-695.83	598.46	14,523,748.82	2,098,078.84	39.982181	-109.366296	
5,980.00	1.00	144.50	5,860.63	-697.14	599.27	14,523,747.53	2,098,079.67	39.982177	-109.366294	

# Anadarko Petroleum Corp

## Survey Report - Geographic

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6B4CS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6B PAD	<b>MD Reference:</b>	14' RKB + 5222' GL @ 5236.00ft
<b>Well:</b>	BONANZA 1023-6B4CS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6B4CS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6B4CS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,071.00	0.69	144.25	5,951.62	-698.23	600.05	14,523,746.45	2,098,080.47	39.982174	-109.366291
6,161.00	0.56	354.63	6,041.61	-698.23	600.33	14,523,746.46	2,098,080.75	39.982174	-109.366290
6,252.00	0.38	8.50	6,132.61	-697.49	600.33	14,523,747.20	2,098,080.74	39.982176	-109.366290
6,343.00	1.69	353.38	6,223.59	-695.86	600.22	14,523,748.83	2,098,080.60	39.982181	-109.366290
6,433.00	1.56	358.88	6,313.56	-693.32	600.04	14,523,751.37	2,098,080.38	39.982188	-109.366291
6,524.00	1.56	328.00	6,404.53	-691.03	599.36	14,523,753.64	2,098,079.65	39.982194	-109.366293
6,615.00	0.94	335.38	6,495.50	-689.30	598.39	14,523,755.35	2,098,078.65	39.982199	-109.366297
6,705.00	0.69	321.50	6,585.49	-688.20	597.75	14,523,756.44	2,098,077.99	39.982202	-109.366299
6,796.00	0.38	316.88	6,676.49	-687.55	597.20	14,523,757.08	2,098,077.43	39.982203	-109.366301
6,977.00	0.44	161.38	6,857.49	-687.77	597.01	14,523,756.85	2,098,077.25	39.982203	-109.366302
7,068.00	0.63	165.50	6,948.49	-688.59	597.25	14,523,756.04	2,098,077.50	39.982200	-109.366301
7,158.00	0.94	166.25	7,038.48	-689.79	597.55	14,523,754.85	2,098,077.82	39.982197	-109.366300
7,249.00	0.06	187.13	7,129.47	-690.56	597.72	14,523,754.08	2,098,078.00	39.982195	-109.366299
7,340.00	0.31	171.50	7,220.47	-690.85	597.75	14,523,753.79	2,098,078.04	39.982194	-109.366299
7,430.00	1.00	170.63	7,310.47	-691.87	597.92	14,523,752.78	2,098,078.22	39.982192	-109.366298
7,521.00	0.94	157.63	7,401.45	-693.34	598.33	14,523,751.31	2,098,078.66	39.982187	-109.366297
7,612.00	0.75	260.50	7,492.45	-694.13	598.03	14,523,750.52	2,098,078.37	39.982185	-109.366298
7,702.00	1.25	291.75	7,582.43	-693.86	596.53	14,523,750.76	2,098,076.88	39.982186	-109.366303
7,793.00	0.81	283.63	7,673.42	-693.34	594.99	14,523,751.25	2,098,075.32	39.982187	-109.366309
7,883.00	0.50	260.63	7,763.41	-693.26	593.98	14,523,751.32	2,098,074.31	39.982188	-109.366312
7,974.00	0.88	195.38	7,854.41	-693.99	593.40	14,523,750.57	2,098,073.75	39.982186	-109.366314
8,065.00	1.56	181.75	7,945.39	-695.91	593.18	14,523,748.65	2,098,073.56	39.982180	-109.366315
8,155.00	2.19	168.00	8,035.34	-698.81	593.50	14,523,745.75	2,098,073.94	39.982172	-109.366314
8,246.00	2.44	170.88	8,126.26	-702.43	594.17	14,523,742.15	2,098,074.67	39.982163	-109.366312
8,337.00	2.38	173.13	8,217.18	-706.21	594.70	14,523,738.37	2,098,075.27	39.982152	-109.366310
8,427.00	2.13	169.63	8,307.11	-709.72	595.23	14,523,734.88	2,098,075.86	39.982142	-109.366308
8,518.00	1.88	159.13	8,398.06	-712.77	596.06	14,523,731.84	2,098,076.75	39.982134	-109.366305
8,609.00	1.44	166.00	8,489.02	-715.28	596.87	14,523,729.35	2,098,077.61	39.982127	-109.366302
8,715.00	1.71	178.92	8,594.98	-718.15	597.22	14,523,726.49	2,098,078.01	39.982119	-109.366301
8,765.00	1.71	178.92	8,644.96	-719.64	597.25	14,523,724.99	2,098,078.07	39.982115	-109.366301

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,540.00	2,459.57	-428.18	366.14	TIE ON PT
8,715.00	8,594.98	-718.15	597.22	LAST SVY
8,765.00	8,644.96	-719.64	597.25	PROJECTION

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
 Address: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6029

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
See Atchmt	See Atchmt						
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	99999	18519				5/11/2012	
<b>Comments:</b> Please see attachment with list of Wells in the Ponderosa Unit. <u>W5MVD</u>							5/30/2012

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

**RECEIVED**

**MAY 21 2012**

Div. of Oil, Gas & Mining

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

5/21/2012

Title

Date

well_name	sec	twp	rng	api	entity	lease	well	stat	qtr_qtr	bhl	surf	zone	a_stat	l_num	op_no
SOUTHMAN CANYON 31-3	31	090S	230E	4304734726	13717	1	GW	P	SENW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CANYON 31-4	31	090S	230E	4304734727	13742	1	GW	S	SESW		1	WSMVD	S	UTU-33433	N2995
SOUTHMAN CYN 31-2X (RIG SKID)	31	090S	230E	4304734898	13755	1	GW	P	NWNW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31J	31	090S	230E	4304735149	13994	1	GW	P	NWSE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31B	31	090S	230E	4304735150	13953	1	GW	P	NWNE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31P	31	090S	230E	4304735288	14037	1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31H	31	090S	230E	4304735336	14157	1	GW	P	SENE		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31O	31	090S	230E	4304737205	16827	1	GW	P	SWSE		1	MVRD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31K	31	090S	230E	4304737206	16503	1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31G	31	090S	230E	4304737208	16313	1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31E	31	090S	230E	4304737209	16521	1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31A	31	090S	230E	4304737210	16472	1	GW	P	NENE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31C	31	090S	230E	4304737227	16522	1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-1G	01	100S	230E	4304735512	14458	1	GW	P	SWNE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1A	01	100S	230E	4304735717	14526	1	GW	P	NENE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1E	01	100S	230E	4304735745	14524	1	GW	P	SWNW		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1C	01	100S	230E	4304735754	14684	1	GW	P	NENW		1	MVRD	P	U-40736	N2995
BONANZA 1023-1K	01	100S	230E	4304735755	15403	1	GW	P	NESW		1	MVRD	P	U-38423	N2995
BONANZA 1023-1F	01	100S	230E	4304737379	16872	1	GW	P	SENW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1B	01	100S	230E	4304737380	16733	1	GW	P	NWNE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1D	01	100S	230E	4304737381	16873	1	GW	P	NWNW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1H	01	100S	230E	4304737430	16901	1	GW	P	SENE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1L	01	100S	230E	4304738300	16735	1	GW	P	NWSW		1	MVRD	P	UTU-38423	N2995
BONANZA 1023-1J	01	100S	230E	4304738302	16871	1	GW	P	NWSE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1I	01	100S	230E	4304738810	16750	1	GW	P	NESE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-2E	02	100S	230E	4304735345	14085	3	GW	P	SWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2C	02	100S	230E	4304735346	14084	3	GW	P	NENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2A	02	100S	230E	4304735347	14068	3	GW	P	NENE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2G	02	100S	230E	4304735661	14291	3	GW	P	SWNE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O	02	100S	230E	4304735662	14289	3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2I	02	100S	230E	4304735663	14290	3	GW	S	NESE		3	WSMVD	S	ML-47062	N2995
BONANZA 1023-2MX	02	100S	230E	4304736092	14730	3	GW	P	SWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H	02	100S	230E	4304737093	16004	3	GW	P	SENE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D	02	100S	230E	4304737094	15460	3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2B	02	100S	230E	4304737095	15783	3	GW	P	NWNE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2P	02	100S	230E	4304737223	15970	3	GW	P	SESE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2N	02	100S	230E	4304737224	15887	3	GW	P	SESW		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2L	02	100S	230E	4304737225	15833	3	GW	P	NWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2F	02	100S	230E	4304737226	15386	3	GW	P	SENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D-4	02	100S	230E	4304738761	16033	3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O-1	02	100S	230E	4304738762	16013	3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H3CS	02	100S	230E	4304750344	17426	3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G3BS	02	100S	230E	4304750345	17428	3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G2CS	02	100S	230E	4304750346	17429	3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G1BS	02	100S	230E	4304750347	17427	3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995

BONANZA 1023-2M1S	02	100S	230E	4304750379	17443	3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2L2S	02	100S	230E	4304750380	17444	3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K4S	02	100S	230E	4304750381	17446	3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K1S	02	100S	230E	4304750382	17445	3	GW	P	SENW	D	3	WSMVD	P	ML 47062	N2995
BONANZA 4-6 *	04	100S	230E	4304734751	13841	1	GW	P	NESW		1	MNCS	P	UTU-33433	N2995
BONANZA 1023-4A	04	100S	230E	4304735360	14261	1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4E	04	100S	230E	4304735392	14155	1	GW	P	SWNW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4C	04	100S	230E	4304735437	14252	1	GW	P	NENW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4M	04	100S	230E	4304735629	14930	1	GW	P	SWSW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4O	04	100S	230E	4304735688	15111	1	GW	P	SWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4I	04	100S	230E	4304735689	14446	1	GW	P	NESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4G	04	100S	230E	4304735746	14445	1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4D	04	100S	230E	4304737315	16352	1	GW	P	NWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4H	04	100S	230E	4304737317	16318	1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4B	04	100S	230E	4304737328	16351	1	GW	P	NWNE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4L	04	100S	230E	4304738211	16393	1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4P	04	100S	230E	4304738212	16442	1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4N	04	100S	230E	4304738303	16395	1	GW	P	SESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4FX (RIGSKID)	04	100S	230E	4304739918	16356	1	GW	P	SENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5O	05	100S	230E	4304735438	14297	1	GW	P	SWSE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5AX (RIGSKID)	05	100S	230E	4304735809	14243	1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5C	05	100S	230E	4304736176	14729	1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G	05	100S	230E	4304736177	14700	1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5M	05	100S	230E	4304736178	14699	1	GW	P	SWSW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5K	05	100S	230E	4304736741	15922	1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5B	05	100S	230E	4304737318	16904	1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5E	05	100S	230E	4304737319	16824	1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5H	05	100S	230E	4304737320	16793	1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5N	05	100S	230E	4304737321	16732	1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5L	05	100S	230E	4304737322	16825	1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5J	05	100S	230E	4304737428	17055	1	GW	P	NWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5P	05	100S	230E	4304738213	16795	1	GW	P	SESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5N-1	05	100S	230E	4304738911	17060	1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5PS	05	100S	230E	4304750169	17323	1	GW	P	NESE	D	1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G2AS	05	100S	230E	4304750486	17459	1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G2CS	05	100S	230E	4304750487	17462	1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3BS	05	100S	230E	4304750488	17461	1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3CS	05	100S	230E	4304750489	17460	1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5N4AS	05	100S	230E	4304752080	18484	1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU73450	N2995
BONANZA 1023-8C2DS	05	100S	230E	4304752081	18507	1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU37355	N2995
BONANZA 6-2	06	100S	230E	4304734843	13796	1	GW	TA	NESW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6C	06	100S	230E	4304735153	13951	1	GW	P	NENW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6E	06	100S	230E	4304735358	14170	1	GW	P	SWNW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6M	06	100S	230E	4304735359	14233	1	GW	P	SWSW		1	WSMVD	P	U-38419	N2995
BONANZA 1023-6G	06	100S	230E	4304735439	14221	1	GW	P	SWNE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6O	06	100S	230E	4304735630	14425	1	GW	TA	SWSE		1	WSMVD	TA	U-38419	N2995

\* not moved in unit

BONANZA 1023-6A	06	100S	230E	4304736067	14775			1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-6N	06	100S	230E	4304737211	15672			1	GW	P	SESW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6L	06	100S	230E	4304737212	15673			1	GW	P	NWSW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6J	06	100S	230E	4304737213	15620			1	GW	P	NWSE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6F	06	100S	230E	4304737214	15576			1	GW	TA	SENW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6P	06	100S	230E	4304737323	16794			1	GW	P	SESE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6H	06	100S	230E	4304737324	16798			1	GW	S	SENE		1	WSMVD	S	UTU-33433	N2995
BONANZA 1023-6D	06	100S	230E	4304737429	17020			1	GW	P	NWNW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6B	06	100S	230E	4304740398	18291			1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-6M1BS	06	100S	230E	4304750452	17578			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1AS	06	100S	230E	4304750453	17581			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1CS	06	100S	230E	4304750454	17580			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N4BS	06	100S	230E	4304750455	17579			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I2S	06	100S	230E	4304750457	17790			1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I4S	06	100S	230E	4304750458	17792			1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6J3S	06	100S	230E	4304750459	17791			1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6P1S	06	100S	230E	4304750460	17793			1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6A2CS	06	100S	230E	4304751430	18292			1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4BS	06	100S	230E	4304751431	18293			1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4CS	06	100S	230E	4304751432	18294			1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6C4BS	06	100S	230E	4304751449	18318			1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
BONANZA 1023-6D1DS	06	100S	230E	4304751451	18316			1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
FLAT MESA FEDERAL 2-7	07	100S	230E	4304730545	18244			1	GW	S	NENW		1	WSMVD	S	U-38420	N2995
BONANZA 1023-7B	07	100S	230E	4304735172	13943			1	GW	P	NWNE		1	MVRD	P	U-38420	N2995
BONANZA 1023-7L	07	100S	230E	4304735289	14054			1	GW	P	NWSW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7D	07	100S	230E	4304735393	14171			1	GW	P	NWNW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7P	07	100S	230E	4304735510	14296			1	GW	P	SESE		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7H	07	100S	230E	4304736742	15921			1	GW	P	SENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7NX (RIGSKID)	07	100S	230E	4304736932	15923			1	GW	P	SESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7M	07	100S	230E	4304737215	16715			1	GW	P	SWSW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7K	07	100S	230E	4304737216	16714			1	GW	P	NESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7E	07	100S	230E	4304737217	16870			1	GW	P	SWNW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7G	07	100S	230E	4304737326	16765			1	GW	P	SWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7A	07	100S	230E	4304737327	16796			1	GW	P	NENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7O	07	100S	230E	4304738304	16713			1	GW	P	SWSE		1	MVRD	P	UTU-38420	N2995
BONANZA 1023-7B-3	07	100S	230E	4304738912	17016			1	GW	P	NWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-07JT	07	100S	230E	4304739390	16869			1	GW	P	NWSE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7J2AS	07	100S	230E	4304750474	17494			1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7J2DS	07	100S	230E	4304750475	17495			1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7L3DS	07	100S	230E	4304750476	17939			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7M2AS	07	100S	230E	4304750477	17942			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2AS	07	100S	230E	4304750478	17940			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2DS	07	100S	230E	4304750479	17941			1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7O4S	07	100S	230E	4304750480	17918			1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7P2S	07	100S	230E	4304750482	17919			1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 8-2	08	100S	230E	4304734087	13851			1	GW	P	SESE		1	MVRD	P	U-37355	N2995

BONANZA 8-3	08	100S	230E	4304734770	13843			1	GW	P	NWNW			1	MVRD	P	U-37355	N2995
BONANZA 1023-8A	08	100S	230E	4304735718	14932			1	GW	P	NENE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8L	08	100S	230E	4304735719	14876			1	GW	P	NWSW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8N	08	100S	230E	4304735720	15104			1	GW	P	SESW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8F	08	100S	230E	4304735989	14877			1	GW	S	SESW			1	WSMVD	S	UTU-37355	N2995
BONANZA 1023-8I	08	100S	230E	4304738215	16358			1	GW	P	NESE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8K	08	100S	230E	4304738216	16354			1	GW	P	NESW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8M	08	100S	230E	4304738217	16564			1	GW	P	SWSW			1	MVRD	P	UTU-37355	N2995
BONANZA 1023-8G	08	100S	230E	4304738218	16903			1	GW	P	SWNE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8E	08	100S	230E	4304738219	16397			1	GW	P	SWNW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8C	08	100S	230E	4304738220	16355			1	GW	P	NENW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B	08	100S	230E	4304738221	16292			1	GW	P	NWNE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8H	08	100S	230E	4304738222	16353			1	GW	P	SENE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8O	08	100S	230E	4304738305	16392			1	GW	P	SWSE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B-4	08	100S	230E	4304738914	17019			1	GW	P	NWNE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8A1DS	08	100S	230E	4304750481	17518			1	GW	P	NENE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4BS	08	100S	230E	4304750483	17519			1	GW	P	NENE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B1AS	08	100S	230E	4304750484	17520			1	GW	P	NENE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B2AS	08	100S	230E	4304750485	17521			1	GW	P	NENE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O2S	08	100S	230E	4304750495	17511			1	GW	P	NWSE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J1S	08	100S	230E	4304750496	17509			1	GW	P	NWSE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3S	08	100S	230E	4304750497	17512			1	GW	P	NWSE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J3	08	100S	230E	4304750498	17510			1	GW	P	NWSE			1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C4CS	08	100S	230E	4304750499	17544			1	GW	P	NENW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D2DS	08	100S	230E	4304750500	17546			1	GW	P	NENW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D3DS	08	100S	230E	4304750501	17545			1	GW	P	NENW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3DS	08	100S	230E	4304750502	17543			1	GW	P	NENW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4CS	08	100S	230E	4304751131	18169			1	GW	P	NWNE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B3BS	08	100S	230E	4304751132	18167			1	GW	P	NWNE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C1AS	08	100S	230E	4304751133	18166			1	GW	P	NWNE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G3AS	08	100S	230E	4304751134	18168			1	GW	P	NWNE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2AS	08	100S	230E	4304751135	18227			1	GW	P	SESW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3BS	08	100S	230E	4304751136	18227			1	GW	P	SESW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4AS	08	100S	230E	4304751137	18224			1	GW	P	SESW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4DS	08	100S	230E	4304751138	18225			1	GW	P	SESW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J2CS	08	100S	230E	4304751139	18226			1	GW	P	SESW	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G4DS	08	100S	230E	4304751140	18144			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H2DS	08	100S	230E	4304751141	18142			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H3DS	08	100S	230E	4304751142	18143			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H4DS	08	100S	230E	4304751143	18141			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8I4BS	08	100S	230E	4304751144	18155			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J4BS	08	100S	230E	4304751145	18154			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P1AS	08	100S	230E	4304751146	18156			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2BS	08	100S	230E	4304751147	18153			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P4AS	08	100S	230E	4304751148	18157			1	GW	P	NESE	D		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2DS	08	100S	230E	4304751149	18201			1	GW	P	NWSW	D		1	WSMVD	P	UTU 37355	N2995

BONANZA 1023-8E3DS	08	100S	230E	4304751150	18200			1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K1CS	08	100S	230E	4304751151	18199			1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K4CS	08	100S	230E	4304751152	18198			1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8L3DS	08	100S	230E	4304751153	18197			1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2AS	08	100S	230E	4304751154	18217			1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2DS	08	100S	230E	4304751155	18216			1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N2BS	08	100S	230E	4304751156	18218			1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3CS	08	100S	230E	4304751157	18254			1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N3DS	08	100S	230E	4304751158	18215			1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O4AS	08	100S	230E	4304751159	18252			1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2CS	08	100S	230E	4304751160	18251			1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P3CS	08	100S	230E	4304751161	18253			1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
CANYON FEDERAL 2-9	09	100S	230E	4304731504	1468			1	GW	P	NENW		1	MVRD	P	U-37355	N2995
SOUTHMAN CANYON 9-3-M	09	100S	230E	4304732540	11767			1	GW	S	SWSW		1	MVRD	S	UTU-37355	N2995
SOUTHMAN CANYON 9-4-J	09	100S	230E	4304732541	11685			1	GW	S	NWSE		1	MVRD	S	UTU-37355	N2995
BONANZA 9-6	09	100S	230E	4304734771	13852			1	GW	P	NWNE		1	MVRD	P	U-37355	N2995
BONANZA 9-5	09	100S	230E	4304734866	13892			1	GW	P	SESW		1	MVRD	P	U-37355	N2995
BONANZA 1023-9E	09	100S	230E	4304735620	14931			1	GW	P	SWNW		1	WSMVD	P	U-37355	N2995
BONANZA 1023-9I	09	100S	230E	4304738223	16766			1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9D	09	100S	230E	4304738306	16398			1	GW	P	NWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9J	09	100S	230E	4304738811	16989			1	GW	P	NWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9B3BS	09	100S	230E	4304750503	17965			1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9B3CS	09	100S	230E	4304750504	17968			1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2BS	09	100S	230E	4304750505	17966			1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2CS	09	100S	230E	4304750506	17967			1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 10-2	10	100S	230E	4304734704	13782			1	GW	P	NWNW		1	MVRD	P	U-72028	N2995
BONANZA 1023-10L	10	100S	230E	4304735660	15164			1	GW	P	NWSW		1	WSMVD	P	U-38261	N2995
BONANZA 1023-10E	10	100S	230E	4304738224	16501			1	GW	P	SWNW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C	10	100S	230E	4304738228	16500			1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C-4	10	100S	230E	4304738915	17015			1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 11-2 ★	11	100S	230E	4304734773	13768			1	GW	P	SWNW		1	MVMCS	P	UTU-38425	N2995
BONANZA 1023-11K	11	100S	230E	4304735631	15132			1	GW	P	NESW		1	WSMVD	P	UTU-38425	N2995
BONANZA 1023-11B	11	100S	230E	4304738230	16764			1	GW	P	NWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11F	11	100S	230E	4304738232	16797			1	GW	P	SENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11D	11	100S	230E	4304738233	16711			1	GW	P	NWNW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11G	11	100S	230E	4304738235	16826			1	GW	P	SWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11C	11	100S	230E	4304738309	16736			1	GW	P	NENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11J	11	100S	230E	4304738310	16839			1	GW	P	NWSE		1	WSMVD	P	UTU-38424	N2995
BONANZA 1023-11N	11	100S	230E	4304738311	16646			1	GW	P	SESW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11M	11	100S	230E	4304738312	16687			1	GW	P	SWSW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11L	11	100S	230E	4304738812	16987			1	GW	P	NWSW		1	WSMVD	P	UTU-38424	N2995
NSO FEDERAL 1-12	12	100S	230E	4304730560	1480			1	GW	P	NENW		1	MVRD	P	UTU-38423	N2995
WHITE RIVER 1-14	14	100S	230E	4304730481	1500			1	GW	S	NENW		1	MVRD	S	U-38427	N2995
BONANZA 1023-14D	14	100S	230E	4304737030	16799			1	GW	P	NWNW		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-14C	14	100S	230E	4304738299	16623			1	GW	P	NENW		1	MVRD	P	UTU-38427	N2995
BONANZA FEDERAL 3-15	15	100S	230E	4304731278	8406			1	GW	P	NENW		1	MVRD	P	U-38428	N2995

★ not moved into unit

BONANZA 1023-15H	15	100S	230E	4304738316	16688		1	GW	P	SENE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15J	15	100S	230E	4304738817	16988		1	GW	P	NWSE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15H4CS	15	100S	230E	4304750741	17492		1	GW	P	NESE	D	1	MVRD	P	UTU 38427	N2995
BONANZA 1023-15I2AS	15	100S	230E	4304750742	17493		1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15I4BS	15	100S	230E	4304750743	17490		1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15P1BS	15	100S	230E	4304750744	17491		1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
LOOKOUT POINT STATE 1-16	16	100S	230E	4304730544	1495		3	GW	P	NESE		3	WSMVD	P	ML-22186-A	N2995
BONANZA 1023-16J	16	100S	230E	4304737092	15987		3	GW	OPS	NWSE		3	WSMVD	OPS	ML-22186-A	N2995
BONANZA 1023-17B	17	100S	230E	4304735747	15165		1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17C	17	100S	230E	4304738237	16585		1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17D3S	17	100S	230E	4304750511	17943		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E2S	17	100S	230E	4304750512	17944		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3AS	17	100S	230E	4304750513	17945		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3CS	17	100S	230E	4304750514	17946		1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-18G	18	100S	230E	4304735621	14410		1	GW	P	SWNE		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18B	18	100S	230E	4304735721	14395		1	GW	P	NWNE		1	WSMVD	P	U-38421	N2995
BONANZA 1023-18DX (RIGSKID)	18	100S	230E	4304736218	14668		1	GW	P	NWNW		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18A	18	100S	230E	4304738243	16625		1	GW	P	NENE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18F	18	100S	230E	4304738244	16624		1	GW	P	SENW		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18E	18	100S	230E	4304738245	16645		1	GW	P	SWNW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18C	18	100S	230E	4304738246	16734		1	GW	P	NENW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18G-1	18	100S	230E	4304738916	17135		1	GW	P	SWNE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18D3AS	18	100S	230E	4304750448	17498		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18D3DS	18	100S	230E	4304750449	17499		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E2DS	18	100S	230E	4304750450	17497		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E3AS	18	100S	230E	4304750451	17496		1	GW	P	SENW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L2S	18	100S	230E	4304750520	18111		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L3S	18	100S	230E	4304750521	18110		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3AS	18	100S	230E	4304751061	18112		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3BS	18	100S	230E	4304751063	18113		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2AS	18	100S	230E	4304751064	18117		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2DS	18	100S	230E	4304751065	18116		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2AS	18	100S	230E	4304751066	18114		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2DS	18	100S	230E	4304751067	18115		1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-10F	10	100S	230E	4304738225	16565			GW	P	SENW			MVRD	P	UTU 72028	N2995
BONANZA 1023-6D1AS	6	100S	230E	4304751450	18320			GW	P	NENW	D		WSMVD	P	UTU 38419	N2995
BONANZA 1023-6C1CS	6	100S	230E	4304751448	18319			GW	P	NENW	D			P	UTU 38419	N2995
BONANZA 1023-6D3AS	6	100S	230E	4304751452	18317			GW	P	NENW	D		WSMVD	P	UTU 38419	N2995