

STATE OF UTAH 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 1023-602DS		
<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> UTU38419		<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>
<b>LOCATION AT SURFACE</b>	208 FSL 2079 FEL	SWSE	6	10.0 S	23.0 E	S
<b>Top of Uppermost Producing Zone</b>	785 FSL 1984 FEL	SWSE	6	10.0 S	23.0 E	S
<b>At Total Depth</b>	785 FSL 1984 FEL	SWSE	6	10.0 S	23.0 E	S
<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 785		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 516		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 268		<b>26. PROPOSED DEPTH</b> MD: 8569 TVD: 8502		
<b>27. ELEVATION - GROUND LEVEL</b> 5266		<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> 01/04/2011		<b>EMAIL</b> gina.becker@anadarko.com		
<b>API NUMBER ASSIGNED</b> 43047514740000		<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	8569		
<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	2090		
<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.

### BONANZA 1023-6O2DS

Surface:	208 FSL / 2079 FEL	SWSE	Lot
BHL:	785 FSL / 1984 FEL	SWSE	Lot

Section 6 T10S R23E

Unitah, Utah  
Mineral Lease: UTU-38419

### 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	1232	
Birds Nest	1483	Water
Mahogany	1842	Water
Wasatch	4220	Gas
Mesaverde	6334	Gas
MVU2	7311	Gas
MVL1	7863	Gas
TVD	8502	
MD	8569	

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 8,502' TVD, approximately equals 5,209 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,338 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 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 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 8-5/8 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 2,090	28.00	IJ-55	LTC	0.98	1.92	5.89
PRODUCTION	4-1/2"	0 to 8,569	11.60	I-80	BTC	2.27	1.20	3.20

\*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.57

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 3,338 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 5,209 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	1,590'	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	3,719'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	270	10%	11.00	3.38	
	TAIL	4,850'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	940	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.

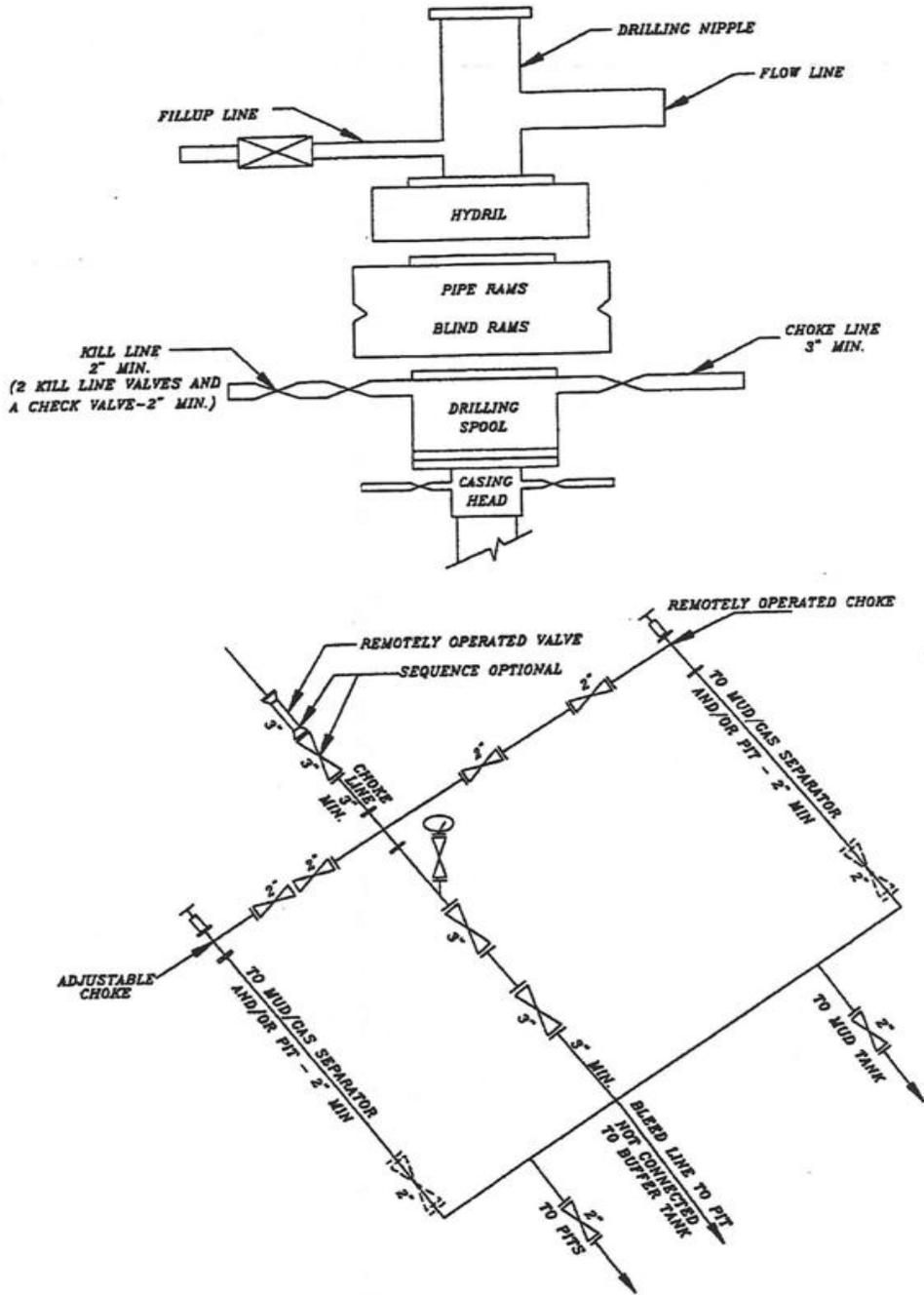
Surveys will be taken at 1,000' minimum intervals.

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

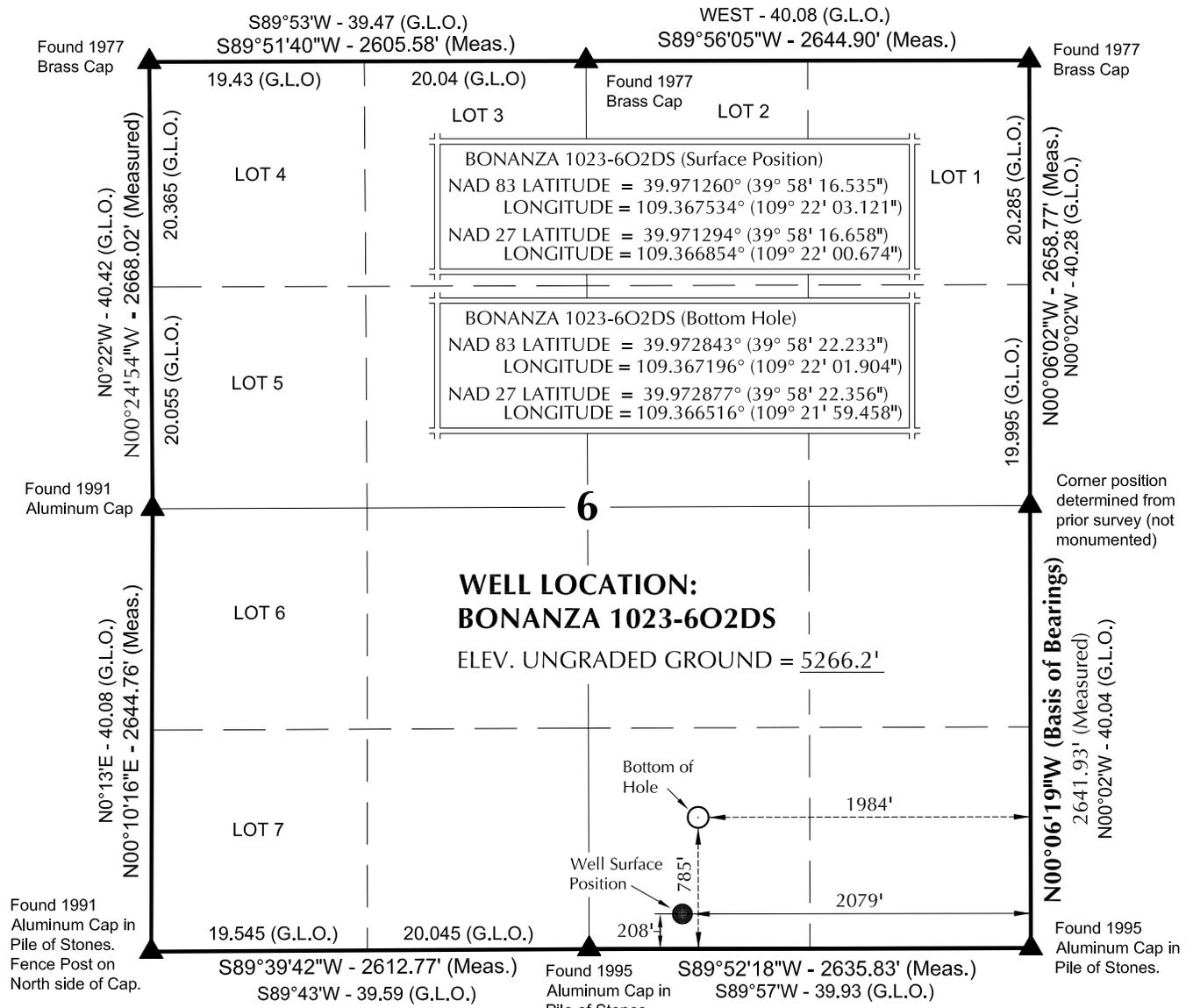
**DRILLING SUPERINTENDENT:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
 John Merkel / Lovel Young

### EXHIBIT A BONANZA 1023-602DS



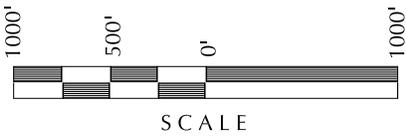
**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

# 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 N09°15'58"E 584.48' 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. Lauch*  
 No. 6028691  
 JOHN R. LAUCH  
 PROFESSIONAL LAND SURVEYOR  
 REGISTRATION NO. 6028691  
 STATE OF UTAH

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

**WELL PAD: BONANZA 1023-60**

**BONANZA 1023-602DS**  
**WELL PLAT**  
**785' FSL, 1984' FEL (Bottom Hole)**  
**SW ¼ SE ¼ 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

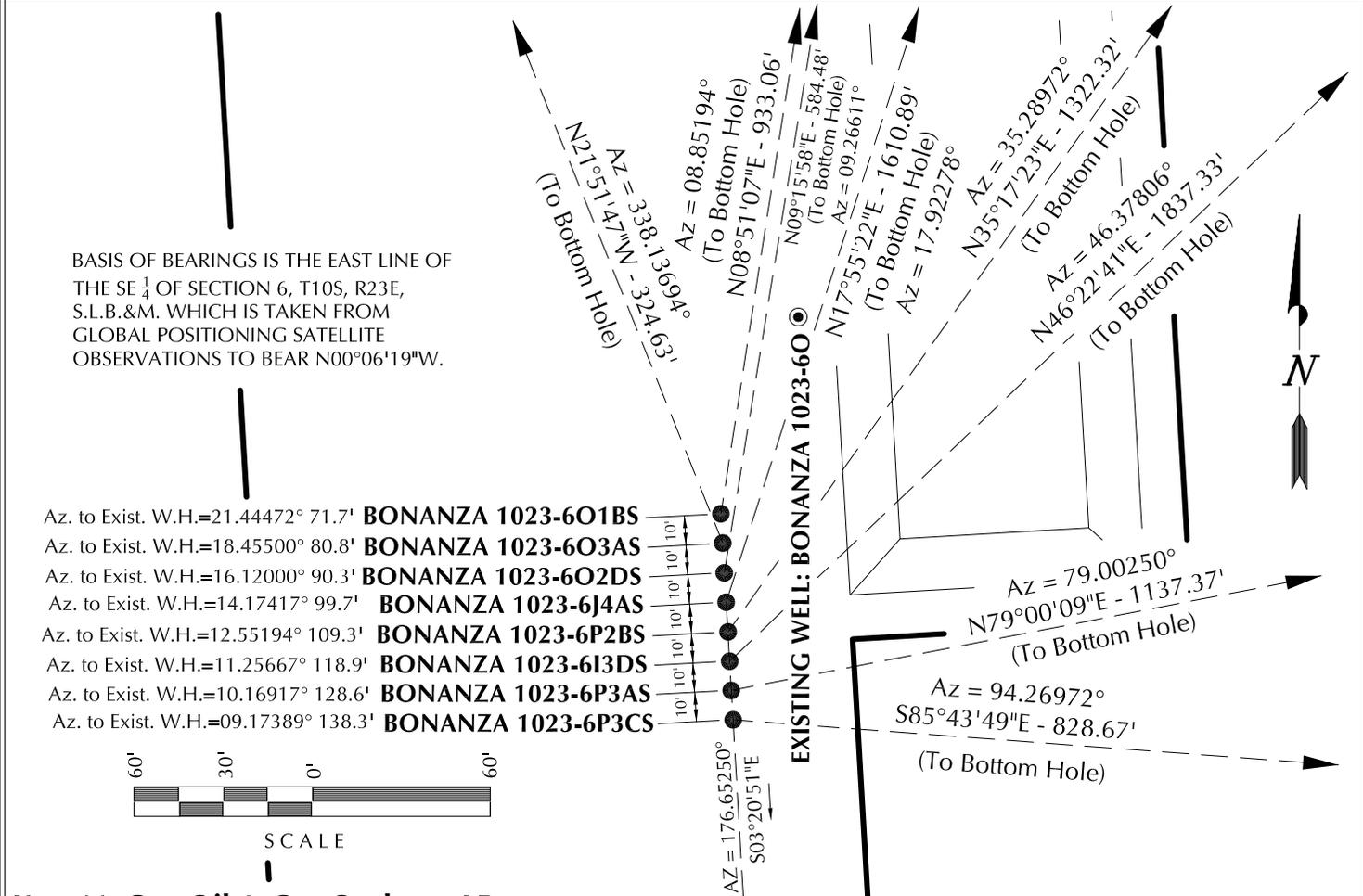
**TIMBERLINE** (435) 789-1365  
 ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-09-10	SURVEYED BY: D.J.S.	SHEET NO: <b>6</b>
DATE DRAWN: 03-12-10	DRAWN BY: K.H.G.	
SCALE: 1" = 1000'		6 OF 20

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6P3CS	39°58'16.043"	109°22'03.083"	39°58'16.166"	109°22'00.636"	158' FSL 2076' FEL	39°58'15.424"	109°21'52.472"	39°58'15.547"	109°21'50.026"	95' FSL 1250' FEL
BONANZA 1023-6P3AS	39°58'16.142"	109°22'03.091"	39°58'16.264"	109°22'00.644"	169' FSL 2077' FEL	39°58'18.273"	109°21'48.751"	39°58'18.396"	109°21'46.305"	383' FSL 960' FEL
BONANZA 1023-6I3DS	39°58'16.239"	109°22'03.097"	39°58'16.362"	109°22'00.651"	178' FSL 2077' FEL	39°58'28.748"	109°21'46.000"	39°58'28.871"	109°21'43.554"	1443' FSL 1443' FEL
BONANZA 1023-6P2BS	39°58'16.338"	109°22'03.104"	39°58'16.461"	109°22'00.658"	188' FSL 2078' FEL	39°58'26.993"	109°21'53.279"	39°58'27.116"	109°21'50.833"	1266' FSL 1312' FEL
BONANZA 1023-6J4AS	39°58'16.437"	109°22'03.112"	39°58'16.560"	109°22'00.666"	198' FSL 2079' FEL	39°58'31.574"	109°21'56.725"	39°58'31.697"	109°21'54.279"	1730' FSL 1580' FEL
BONANZA 1023-6O2DS	39°58'16.535"	109°22'03.121"	39°58'16.658"	109°22'00.674"	208' FSL 2079' FEL	39°58'22.233"	109°22'01.904"	39°58'22.356"	109°21'59.458"	785' FSL 1984' FEL
BONANZA 1023-6O3AS	39°58'16.635"	109°22'03.127"	39°58'16.758"	109°22'00.681"	218' FSL 2080' FEL	39°58'19.613"	109°22'04.675"	39°58'19.736"	109°22'02.229"	520' FSL 2200' FEL
BONANZA 1023-6O1BS	39°58'16.733"	109°22'03.135"	39°58'16.856"	109°22'00.689"	228' FSL 2080' FEL	39°58'25.840"	109°22'01.278"	39°58'25.963"	109°21'58.832"	1150' FSL 1935' FEL
BONANZA 1023-6O	39°58'17.391"	109°22'02.798"	39°58'17.514"	109°22'00.351"	295' FSL 2054' FEL	39°58'17.391"	109°22'02.798"	39°58'17.514"	109°22'00.351"	

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-6P3CS	-61.7'	826.4'	BONANZA 1023-6P3AS	217.0'	1116.5'	BONANZA 1023-6I3DS	1267.6'	1330.1'	BONANZA 1023-6P2BS	1079.3'	763.9'
BONANZA 1023-6J4AS	1532.7'	495.7'	BONANZA 1023-6O2DS	576.8'	94.1'	BONANZA 1023-6O3AS	301.3'	-120.9'	BONANZA 1023-6O1BS	921.9'	143.6'



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

**WELL PAD - BONANZA 1023-6O**

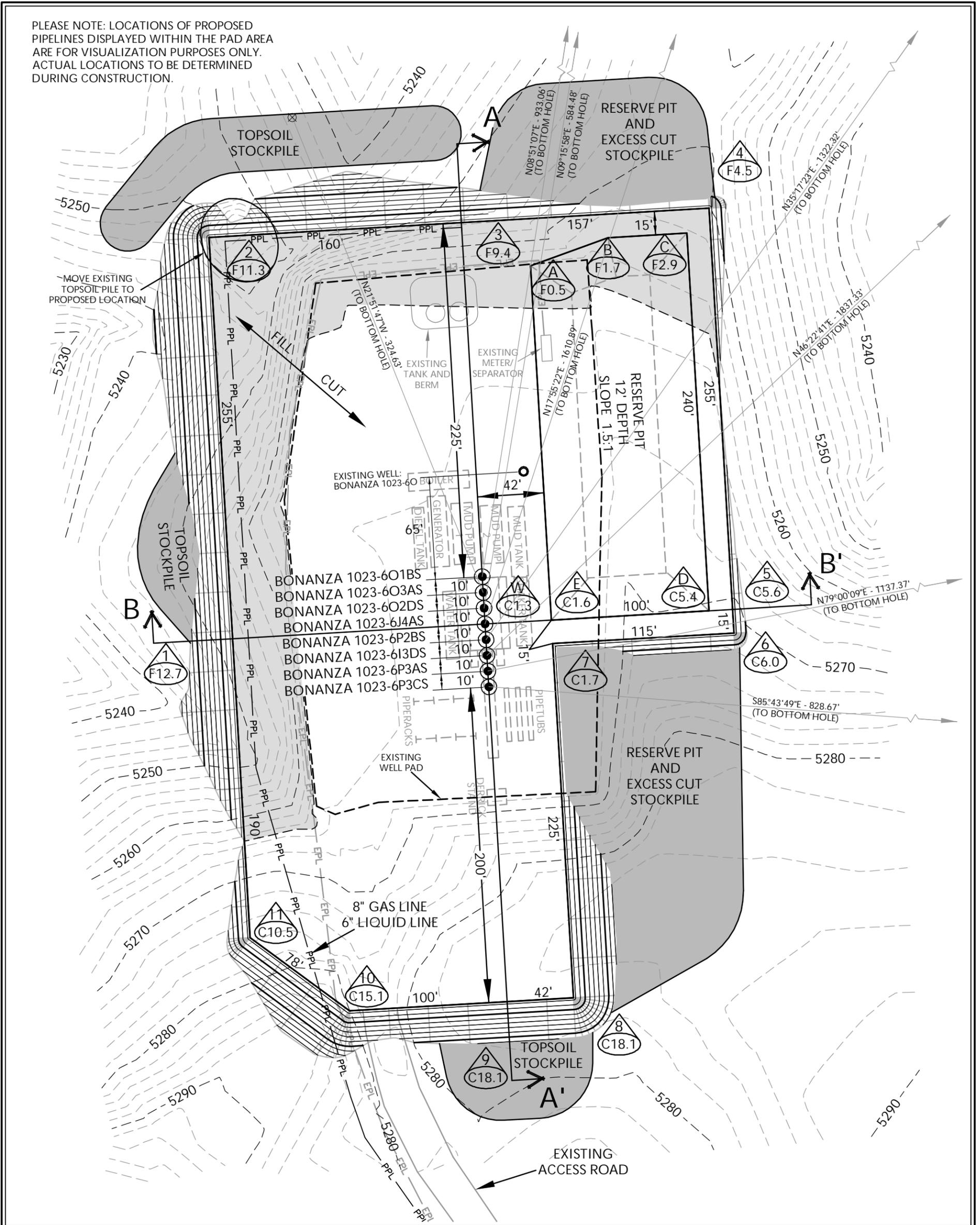
**WELL PAD INTERFERENCE PLAT**  
 WELLS - BONANZA 1023-6P3CS, BONANZA 1023-6P3AS, BONANZA 1023-6I3DS, BONANZA 1023-6P2BS, BONANZA 1023-6J4AS, BONANZA 1023-6O2DS, BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS LOCATED IN SECTION 6, T10S, R23E, S.L.B.&M., UTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 03-09-10	SURVEYED BY: D.J.S.	SHEET NO: <b>9</b> 9 OF 20
DATE DRAWN: 03-12-10	DRAWN BY: K.H.G.	
SCALE: 1" = 60'		Date Last Revised:

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 1023-60 DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 5266.3'  
 FINISHED GRADE ELEVATION = 5265.0'  
 CUT SLOPES = 1.5:1  
 FILL SLOPES = 1.5:1  
 TOTAL WELL PAD AREA = 3.65 ACRES  
 TOTAL DAMAGE AREA = 6.40 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 15,612 C.Y.  
 TOTAL FILL FOR WELL PAD = 14,543 C.Y.  
 TOPSOIL @ 6" DEPTH = 1,809 C.Y.  
 EXCESS MATERIAL = 1,069 C.Y.

**RESERVE PIT QUANTITIES**

TOTAL CUT FOR RESERVE PIT +/- 7,610 CY  
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 28,400 BARRELS

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

**WELL PAD - BONANZA 1023-60**  
 WELL PAD - LOCATION LAYOUT  
 BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS & BONANZA 1023-6O1BS  
 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** (435) 789-1365  
**ENGINEERING & LAND SURVEYING, INC.**  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

**WELL PAD LEGEND**

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

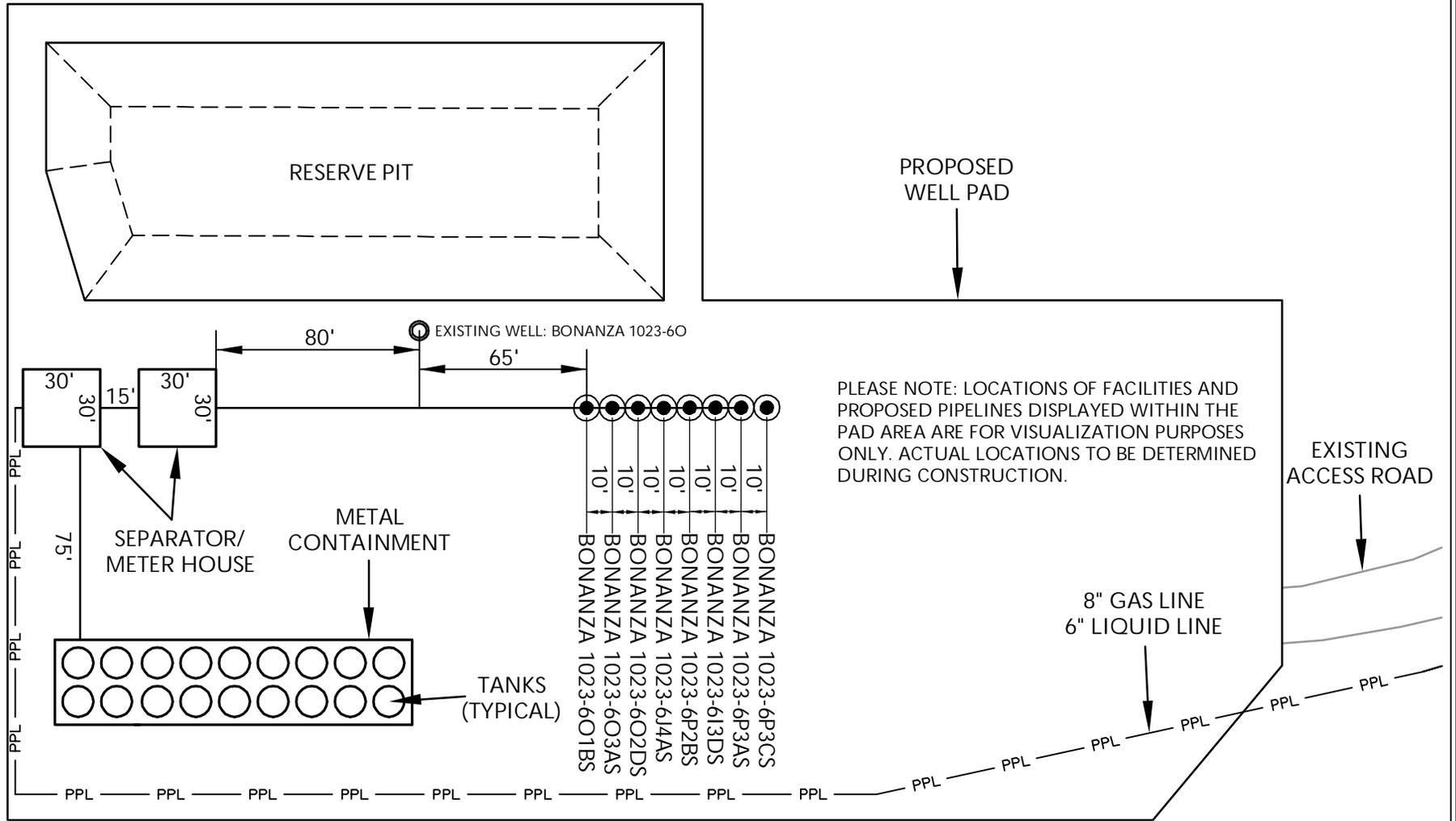


HORIZONTAL 0 30 60 1" = 60'  
 2' CONTOURS

Scale: 1"=60' Date: 4/7/10 SHEET NO: 10 OF 20  
 REVISED: JFE 8/6/10

K:\MADRKO\2010\_12\_BON\_FOCUS\_SEC\_6-1023\DWG\BONANZA 1023-60\1023-60\_20100723.dwg, 8/5/2010 11:41:55 PM





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 1023-60**

WELL PAD - FACILITIES DIAGRAM  
BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
BONANZA 1023-6O3AS & BONANZA 1023-6O1BS  
LOCATED IN SECTION 6, T10S, R23E,  
S.L.B.&M., Uintah County, Utah



CONSULTING, LLC  
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Sheridan, WY 82801  
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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: JFE 8/6/10

SHEET NO:  
**12** 12 OF 20

'APIWELLINCo:43047514740000'  
 C:\NAVA\030310\12\_4\_10\12\_4\_10\_P005.dwg - PLOT DATE: 8/6/10 11:42:15 AM  
 C:\NAVA\030310\12\_4\_10\12\_4\_10\_P005.dwg - PLOT DATE: 8/6/10 11:42:15 AM



PHOTO VIEW: FROM CORNER D TO LOCATION STAKES

CAMERA ANGLE: WESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

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

**WELL PAD - BONANZA 1023-6O**

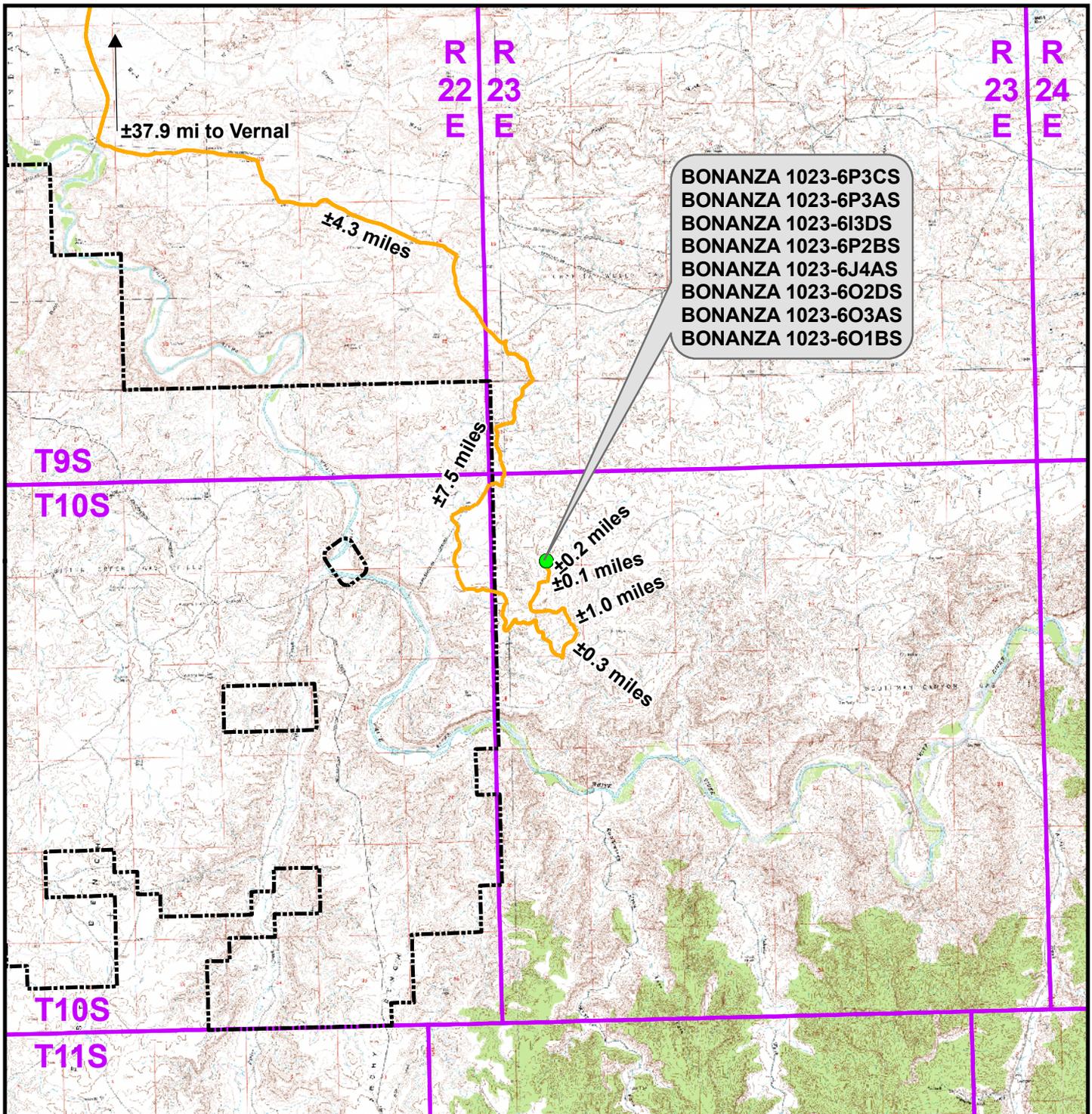
LOCATION PHOTOS  
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 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E,  
 S.L.B.&M., UINTAH COUNTY, UTAH.



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

DATE PHOTOS TAKEN: 03-09-10	PHOTOS TAKEN BY: D.J.S.	SHEET NO: <b>13</b>
DATE DRAWN: 03-12-10	DRAWN BY: K.H.G.	
Date Last Revised:		13 OF 20



**Legend**

Distance From Well Pad - BONANZA 1023-6O To Unit Boundary: ±3,166ft

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

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

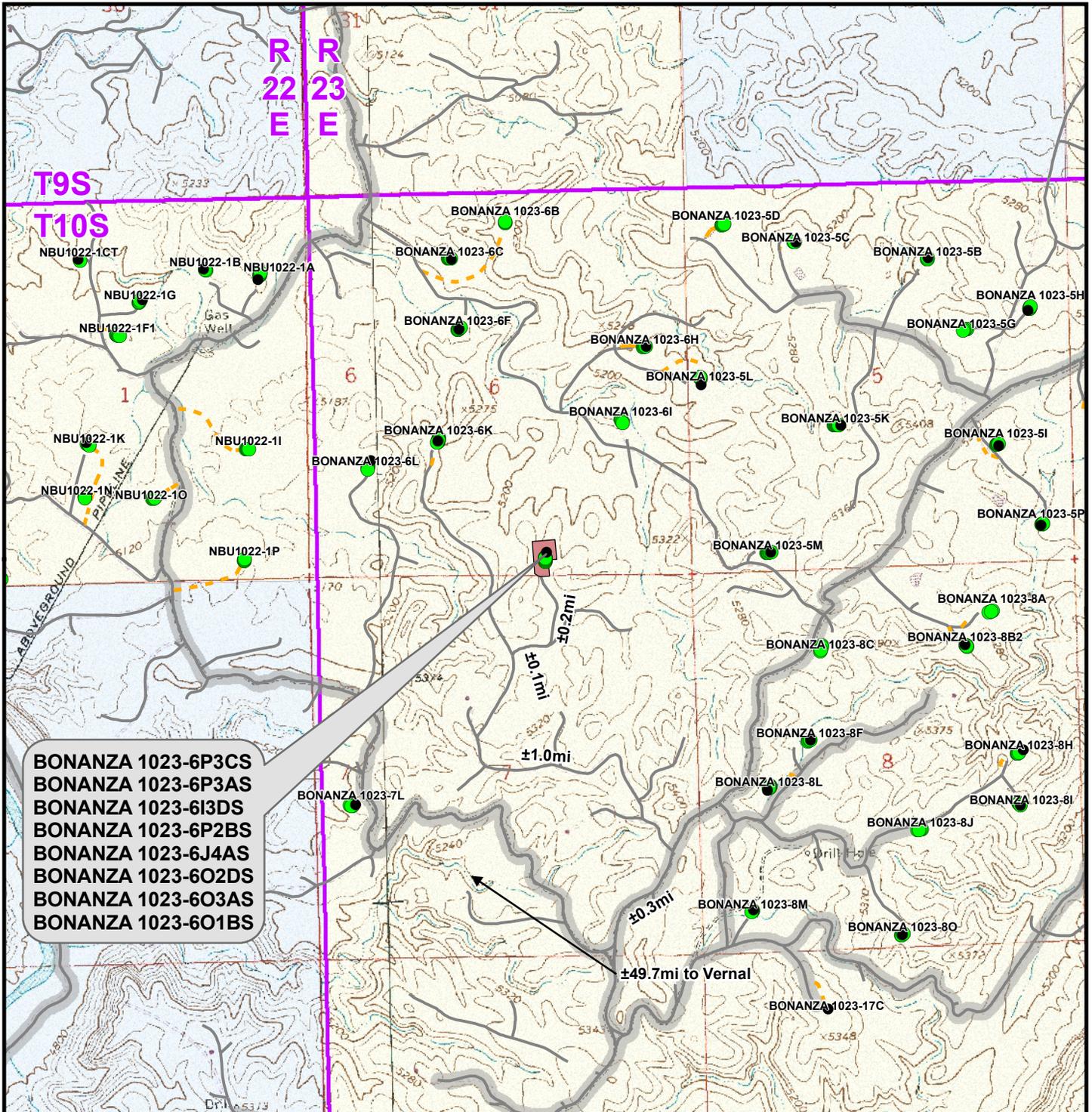
**WELL PAD - BONANZA 1023-6O**

TOPO A  
 BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
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Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Apr 2010	<b>14</b>
Revised: JID	Date: 6 Aug 2010	



**BONANZA 1023-6P3CS**  
**BONANZA 1023-6P3AS**  
**BONANZA 1023-6I3DS**  
**BONANZA 1023-6P2BS**  
**BONANZA 1023-6J4AS**  
**BONANZA 1023-6O2DS**  
**BONANZA 1023-6O3AS**  
**BONANZA 1023-6O1BS**

**Legend**

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

Total Proposed Road Length: ±0ft

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

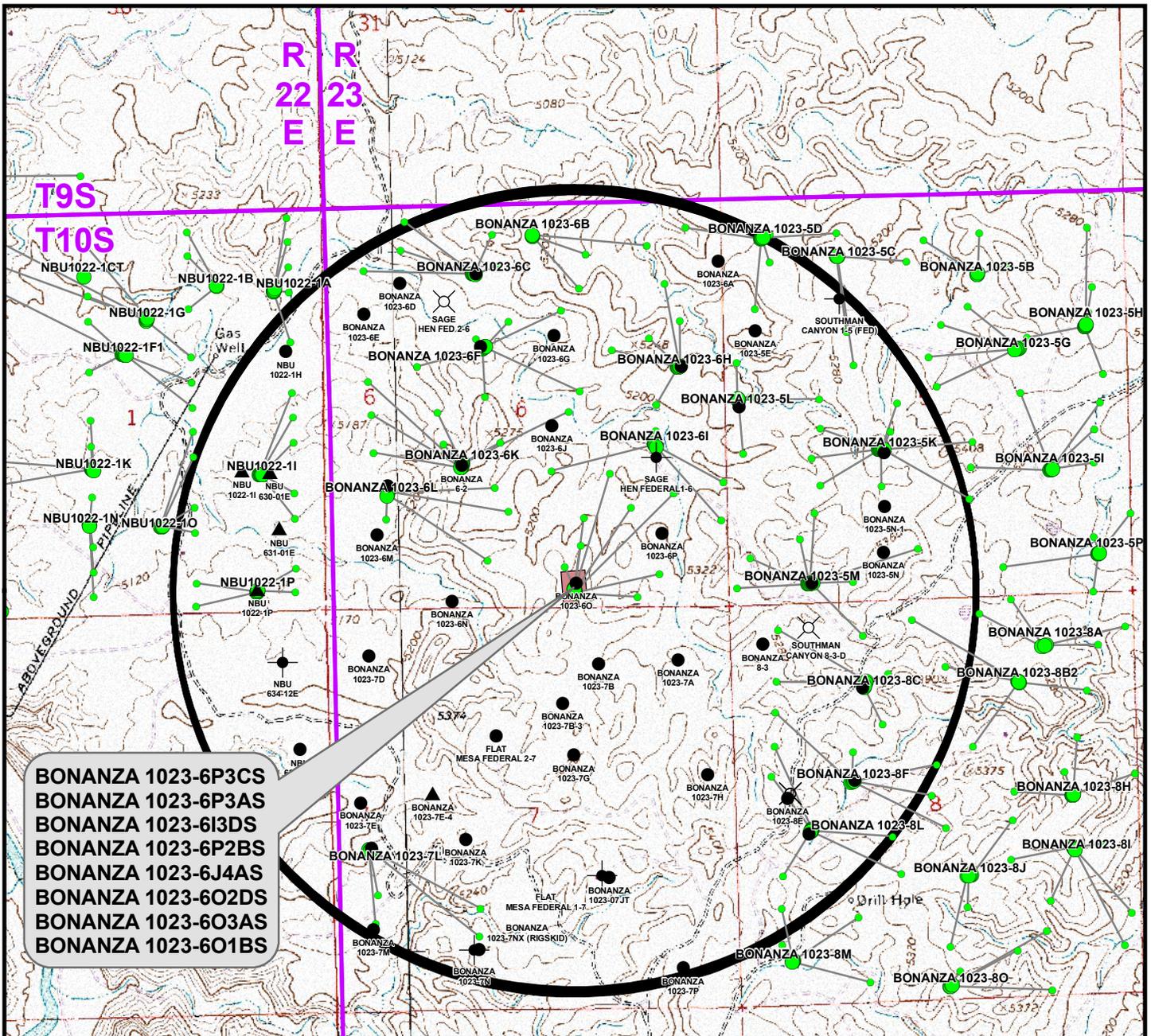
**WELL PAD - BONANZA 1023-60**

TOPO B  
 BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**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: 14 Apr 2010	<b>15</b>	15 of 20
Revised: JID	Date: 6 Aug 2010		



BONANZA 1023-6P3CS  
 BONANZA 1023-6P3AS  
 BONANZA 1023-6I3DS  
 BONANZA 1023-6P2BS  
 BONANZA 1023-6J4AS  
 BONANZA 1023-6O2DS  
 BONANZA 1023-6O3AS  
 BONANZA 1023-6O1BS

Proposed Well	Nearest Well Bore	Footage	Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-6P3CS	BONANZA 1023-6O	828 ft	BONANZA 1023-6J4AS	SAGE HEN FEDERAL 1-6	650 ft
BONANZA 1023-6P3AS	BONANZA 1023-6P	543 ft	BONANZA 1023-6O2DS	BONANZA 1023-6O	495 ft
BONANZA 1023-6I3DS	SAGE HEN FEDERAL 1-6	528 ft	BONANZA 1023-6O3AS	BONANZA 1023-6O	268 ft
BONANZA 1023-6P2BS	BONANZA 1023-6P	530 ft	BONANZA 1023-6O1BS	BONANZA 1023-6O	863 ft

**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius
- Producing
- ★ Active
- ☺ Spudded (Drilling commenced; Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

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

**WELL PAD - BONANZA 1023-6O**

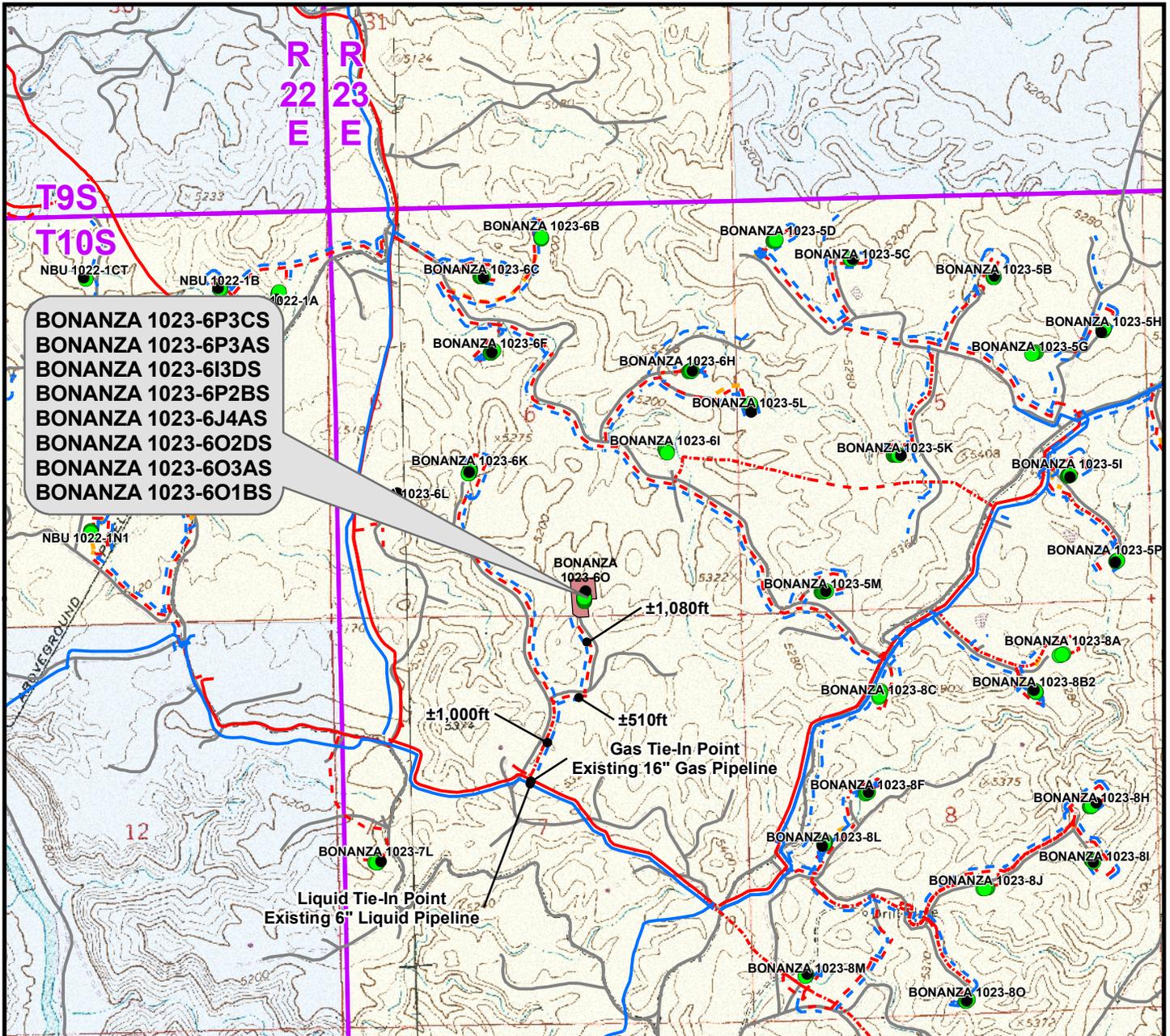
TOPO C  
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 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**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: 14 Apr 2010	<b>16</b>
Revised: JID	Date: 6 Aug 2010	



**BONANZA 1023-6P3CS**  
**BONANZA 1023-6P3AS**  
**BONANZA 1023-6I3DS**  
**BONANZA 1023-6P2BS**  
**BONANZA 1023-6J4AS**  
**BONANZA 1023-6O2DS**  
**BONANZA 1023-6O3AS**  
**BONANZA 1023-6O1BS**

Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±610ft
Proposed 6" (Edge of Pad to Existing 6")	±2,590ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>± 3,200ft</b>

Proposed Gas Pipeline	Length
Proposed 8" (First Meter House to Edge of Pad)	±610ft
Proposed 8" (Edge of Pad to 6K Intersection)	±1,590ft
Proposed 12" (6K Intersection to Existing 16")	±1,000ft
<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±3,200ft</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

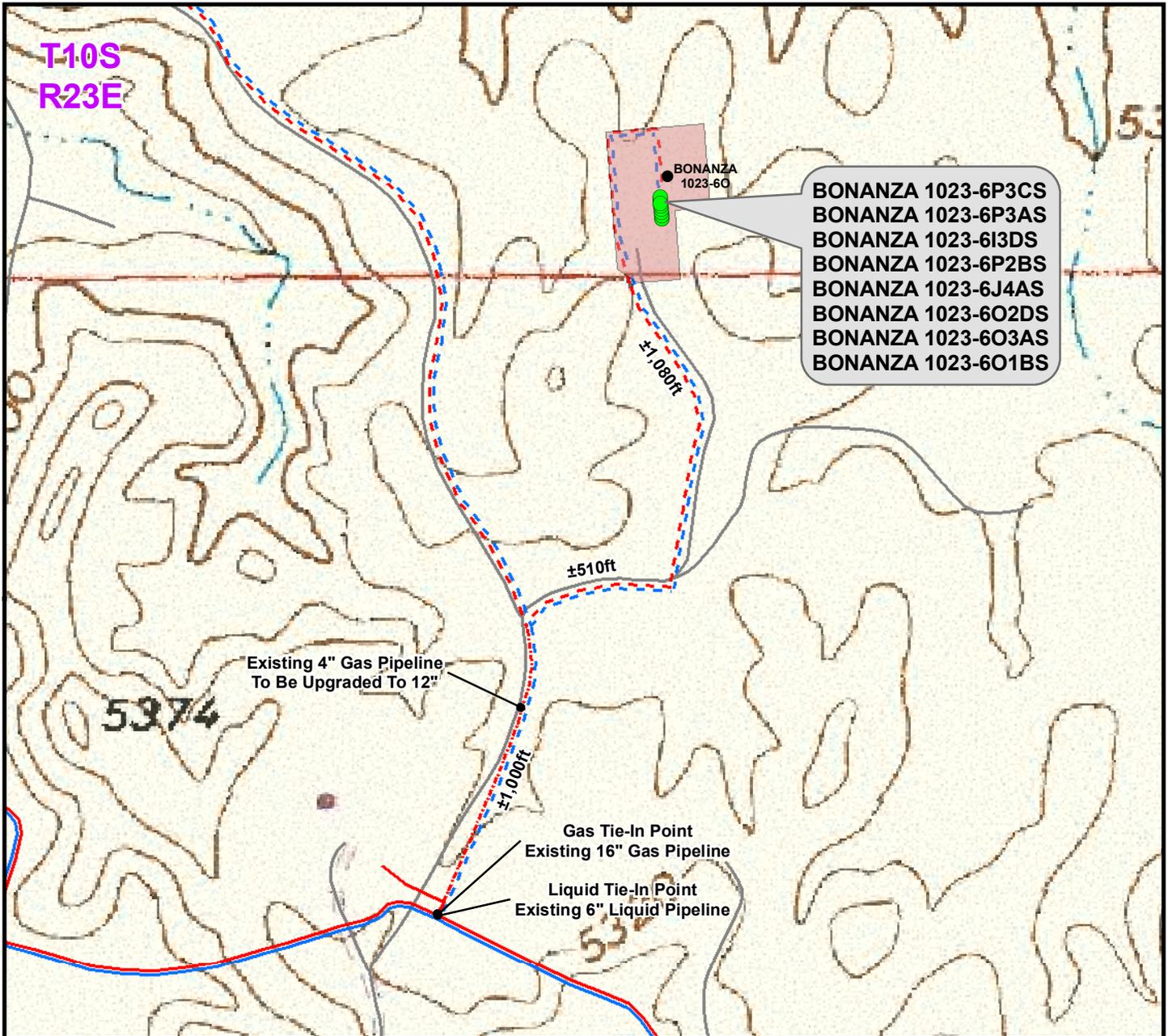
**WELL PAD - BONANZA 1023-60**

**TOPO D**  
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 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
**CONSULTING, LLC**  
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 Sheridan, WY 82801  
 Phone (307) 674-0609  
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Apr 2010	<b>17</b>
Revised: CPS	Date: 15 Oct 2010	



- BONANZA 1023-6P3CS
- BONANZA 1023-6P3AS
- BONANZA 1023-6I3DS
- BONANZA 1023-6P2BS
- BONANZA 1023-6J4AS
- BONANZA 1023-6O2DS
- BONANZA 1023-6O3AS
- BONANZA 1023-6O1BS

Proposed Liquid Pipeline		Length	Proposed Gas Pipeline		Length
Proposed 6" (First Meter House to Edge of Pad)		±610ft	Proposed 8" (First Meter House to Edge of Pad)		±610ft
Proposed 6" (Edge of Pad to Existing 6")		±2,590ft	Proposed 8" (Edge of Pad to 6K Intersection)		±1,590ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>		<b>± 3,200ft</b>	Proposed 12" (6K Intersection to Existing 16")		±1,000ft
			<b>TOTAL PROPOSED GAS PIPELINE =</b>		<b>±3,200ft</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

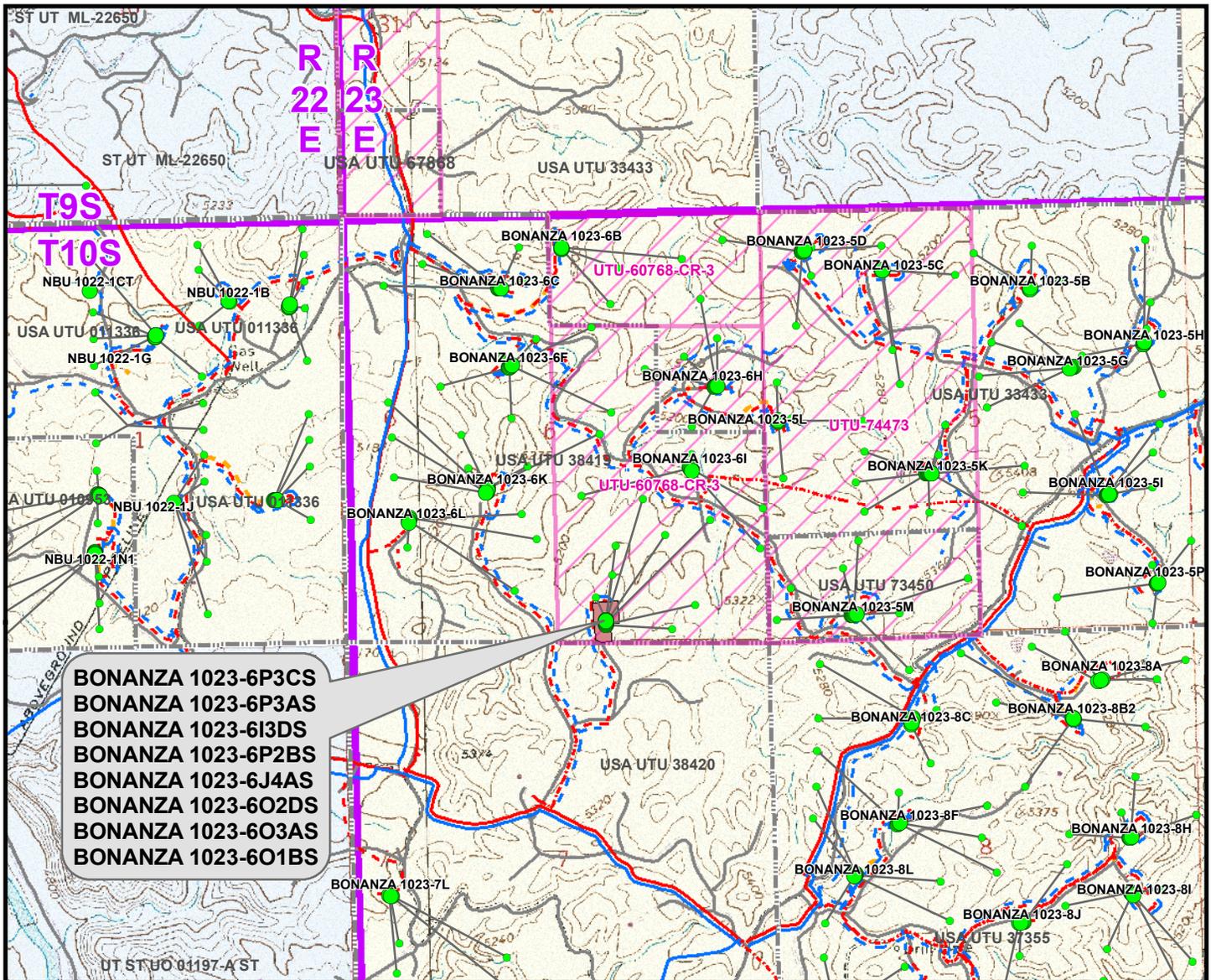
**WELL PAD - BONANZA 1023-60**

TOPO D2 (PAD & PIPELINE DETAIL)  
 BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

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

Scale: 1" = 500ft    NAD83 USP Central    Sheet No: **18** of 20

Drawn: TL    Date: 14 Apr 2010  
 Revised: CPS    Date: 15 Oct 2010



**BONANZA 1023-6P3CS**  
**BONANZA 1023-6P3AS**  
**BONANZA 1023-6I3DS**  
**BONANZA 1023-6P2BS**  
**BONANZA 1023-6J4AS**  
**BONANZA 1023-6O2DS**  
**BONANZA 1023-6O3AS**  
**BONANZA 1023-6O1BS**

Proposed Well	Distance To Nearest CA Boundary
BONANZA 1023-6P3CS	95ft
BONANZA 1023-6P3AS	383ft
BONANZA 1023-6I3DS	745ft
BONANZA 1023-6P2BS	1,266ft
BONANZA 1023-6J4AS	1,058ft
BONANZA 1023-6O2DS	653ft
BONANZA 1023-6O3AS	436ft
BONANZA 1023-6O1BS	703ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6P3CS	95ft
BONANZA 1023-6P3AS	383ft
BONANZA 1023-6I3DS	745ft
BONANZA 1023-6P2BS	1,266ft
BONANZA 1023-6J4AS	946ft
BONANZA 1023-6O2DS	785ft
BONANZA 1023-6O3AS	520ft
BONANZA 1023-6O1BS	1,150ft

**Legend**

- Well - Proposed (Green circle)
- Bottom Hole - Proposed (Green dot)
- Well Path (Grey line)
- Well Pad (Brown rectangle)
- CA Agreement (Pink rectangle)
- Lease Boundary (Black dashed line)
- Gas Pipeline - Proposed (Red dashed line)
- Gas Pipeline - To Be Upgraded (Red dotted line)
- Gas Pipeline - Existing (Red solid line)
- Liquid Pipeline - Proposed (Blue dashed line)
- Liquid Pipeline - To Be Upgraded (Blue dotted line)
- Liquid Pipeline - Existing (Blue solid line)
- Road - Proposed (Orange dashed line)
- Road - Existing (Grey solid line)
- Bureau of Land Management (Yellow rectangle)
- Indian Reservation (Red rectangle)
- State (Light blue rectangle)
- Private (White rectangle)

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

**WELL PAD - BONANZA 1023-60**

TOPO E  
 BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
 BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
 BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
 BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
 LOCATED IN SECTION 6, T10S, R23E  
 S.L.B.&M., UINTAH COUNTY, UTAH

**609**  
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 371 Coffeen Avenue  
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Scale: 1" = 2,000ft | NAD83 USP Central | Sheet No: **19** of 20  
 Drawn: TL | Date: 14 Apr 2010  
 Revised: CPS | Date: 15 Oct 2010

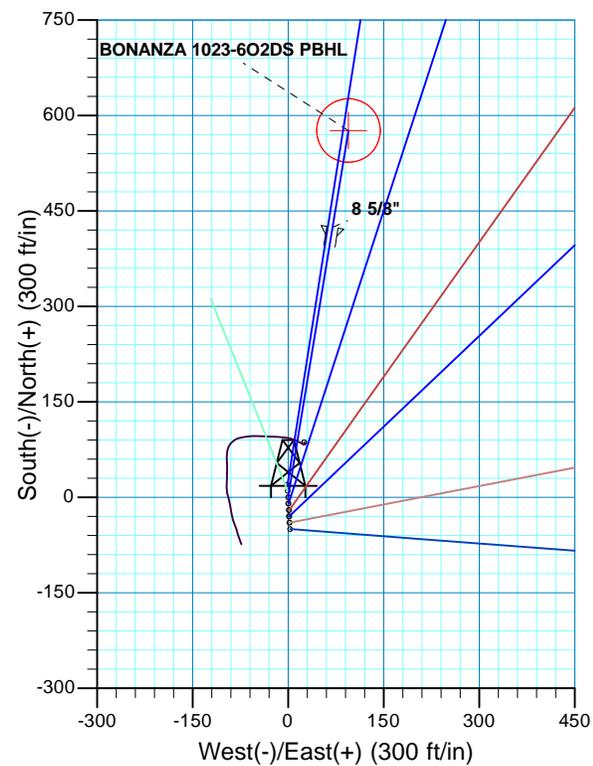
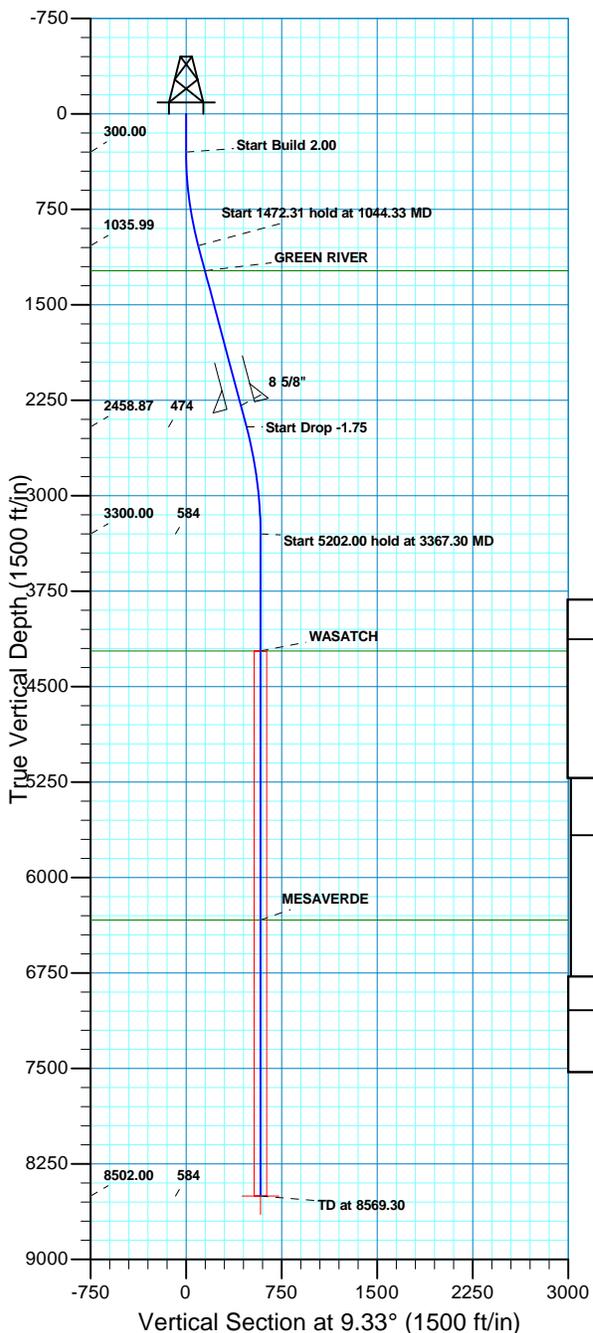
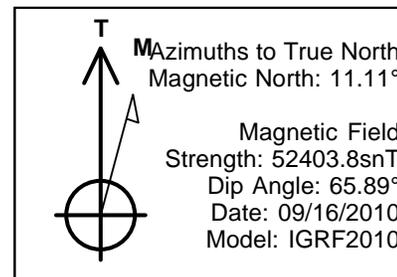
**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – BONANZA 1023-60  
WELLS – BONANZA 1023-6P3CS, BONANZA 1023-6P3AS,  
BONANZA 1023-6I3DS, BONANZA 1023-6P2BS,  
BONANZA 1023-6J4AS, BONANZA 1023-6O2DS,  
BONANZA 1023-6O3AS, & BONANZA 1023-6O1BS  
Section 6, T10S, R23E, S.L.B.&M.**

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 7.5 miles to the intersection of the County B Road 3420. Exit left and proceed in a northeasterly direction along the County B Road 3420 approximately 0.3 miles to a service road to the left. Exit left and proceed in a northwesterly direction along said service road approximately 1.0 miles to a second service road to the right. Exit right and proceed in an easterly direction along said service road approximately 0.1 miles to a third service road to the left. Exit left and proceed in a northerly direction along said service road approximately 0.2 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 51.3 miles in a southerly direction.

WELL DETAILS: BONANZA 1023-6O2DS					
GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14519781.54	2097995.18	39° 58' 16.658 N	109° 22' 0.674 W

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8502.00	576.56	94.72	14520359.73	2098079.33	39° 58' 22.357 N	109° 21' 59.458 W	Circle (Radius: 50.00)	
- plan hits target center									



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		
1044.33	14.89	9.33	1035.99	94.88	15.59	2.00	9.33	96.15		
2516.64	14.89	9.33	2458.87	468.12	76.91	0.00	0.00	474.40		
3367.30	0.00	0.00	3300.00	576.56	94.72	1.75	180.00	584.29		
8569.30	0.00	0.00	8502.00	576.56	94.72	0.00	0.00	584.29	BONANZA 1023-6O2DS PBHL	

PROJECT DETAILS: Uintah County, UT UTM12			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)	TVDPath	1232.00	MDPath	1247.15	Formation
Datum: NAD 1927 - Western US	4220.00	4287.30	GREEN RIVER		
Ellipsoid: Clarke 1866	6334.00	6401.30	WASATCH		
Zone: Zone 12N (114 W to 108 W)			MESAVERDE		
Location: SEC 6 T10S R23E					
System Datum: Mean Sea Level					

CASING DETAILS				
TVD	MD	Name	Size	
2292.00	2343.97	8 5/8"	8.625	



**Scientific Drilling**  
Rocky Mountain Operations

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

**Uintah County, UT UTM12  
Bonanza 1023-6O Pad  
BONANZA 1023-6O2DS**

**OH**

**Plan: PLAN #1**

## **Standard Planning Report**

**16 September, 2010**



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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 1023-6O Pad, SEC 6 T10S R23E				
<b>Site Position:</b>		<b>Northing:</b>	14,519,801.55 usft	<b>Latitude:</b>	39° 58' 16.856 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,993.69 usft	<b>Longitude:</b>	109° 22' 0.689 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 1023-6O2DS, 208' FSL 2079' FEL					
<b>Well Position</b>	<b>+N/-S</b>	-20.03 ft	<b>Northing:</b>	14,519,781.54 usft	<b>Latitude:</b>	39° 58' 16.658 N
	<b>+E/-W</b>	1.12 ft	<b>Easting:</b>	2,097,995.18 usft	<b>Longitude:</b>	109° 22' 0.674 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,265.00 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	09/16/2010	11.11	65.89	52,404

<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	9.33

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	
1,044.33	14.89	9.33	1,035.99	94.88	15.59	2.00	2.00	0.00	9.33	
2,516.64	14.89	9.33	2,458.87	468.12	76.91	0.00	0.00	0.00	0.00	
3,367.30	0.00	0.00	3,300.00	576.56	94.72	1.75	-1.75	0.00	180.00	
8,569.30	0.00	0.00	8,502.00	576.56	94.72	0.00	0.00	0.00	0.00	BONANZA 1023-6O2

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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	9.33	399.98	1.72	0.28	1.75	2.00	2.00	0.00	
500.00	4.00	9.33	499.84	6.89	1.13	6.98	2.00	2.00	0.00	
600.00	6.00	9.33	599.45	15.49	2.54	15.69	2.00	2.00	0.00	
700.00	8.00	9.33	698.70	27.51	4.52	27.88	2.00	2.00	0.00	
800.00	10.00	9.33	797.47	42.95	7.06	43.52	2.00	2.00	0.00	
900.00	12.00	9.33	895.62	61.77	10.15	62.60	2.00	2.00	0.00	
1,000.00	14.00	9.33	993.06	83.97	13.80	85.10	2.00	2.00	0.00	
1,044.33	14.89	9.33	1,035.99	94.88	15.59	96.15	2.00	2.00	0.00	
<b>Start 1472.31 hold at 1044.33 MD</b>										
1,100.00	14.89	9.33	1,089.79	108.99	17.91	110.46	0.00	0.00	0.00	
1,200.00	14.89	9.33	1,186.43	134.35	22.07	136.15	0.00	0.00	0.00	
1,247.15	14.89	9.33	1,232.00	146.30	24.03	148.26	0.00	0.00	0.00	
<b>GREEN RIVER</b>										
1,300.00	14.89	9.33	1,283.07	159.70	26.24	161.84	0.00	0.00	0.00	
1,400.00	14.89	9.33	1,379.72	185.05	30.40	187.53	0.00	0.00	0.00	
1,500.00	14.89	9.33	1,476.36	210.40	34.57	213.22	0.00	0.00	0.00	
1,600.00	14.89	9.33	1,573.00	235.75	38.73	238.91	0.00	0.00	0.00	
1,700.00	14.89	9.33	1,669.65	261.10	42.89	264.60	0.00	0.00	0.00	
1,800.00	14.89	9.33	1,766.29	286.45	47.06	290.29	0.00	0.00	0.00	
1,900.00	14.89	9.33	1,862.93	311.80	51.22	315.98	0.00	0.00	0.00	
2,000.00	14.89	9.33	1,959.58	337.15	55.39	341.67	0.00	0.00	0.00	
2,100.00	14.89	9.33	2,056.22	362.50	59.55	367.36	0.00	0.00	0.00	
2,200.00	14.89	9.33	2,152.86	387.85	63.72	393.05	0.00	0.00	0.00	
2,300.00	14.89	9.33	2,249.51	413.20	67.88	418.74	0.00	0.00	0.00	
2,343.97	14.89	9.33	2,292.00	424.35	69.71	430.04	0.00	0.00	0.00	
<b>8 5/8"</b>										
2,400.00	14.89	9.33	2,346.15	438.56	72.05	444.43	0.00	0.00	0.00	
2,500.00	14.89	9.33	2,442.80	463.91	76.21	470.13	0.00	0.00	0.00	
2,516.64	14.89	9.33	2,458.87	468.12	76.91	474.40	0.00	0.00	0.00	
<b>Start Drop -1.75</b>										
2,600.00	13.43	9.33	2,539.70	488.24	80.21	494.79	1.75	-1.75	0.00	
2,700.00	11.68	9.33	2,637.31	509.69	83.73	516.52	1.75	-1.75	0.00	
2,800.00	9.93	9.33	2,735.53	528.18	86.77	535.26	1.75	-1.75	0.00	
2,900.00	8.18	9.33	2,834.28	543.71	89.32	551.00	1.75	-1.75	0.00	
3,000.00	6.43	9.33	2,933.47	556.25	91.38	563.71	1.75	-1.75	0.00	
3,100.00	4.68	9.33	3,033.00	565.80	92.95	573.38	1.75	-1.75	0.00	
3,200.00	2.93	9.33	3,132.77	572.34	94.03	580.02	1.75	-1.75	0.00	
3,300.00	1.18	9.33	3,232.70	575.88	94.61	583.60	1.75	-1.75	0.00	
3,367.30	0.00	0.00	3,300.00	576.56	94.72	584.29	1.75	-1.75	0.00	
<b>Start 5202.00 hold at 3367.30 MD</b>										
3,400.00	0.00	0.00	3,332.70	576.56	94.72	584.29	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,432.70	576.56	94.72	584.29	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,532.70	576.56	94.72	584.29	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,632.70	576.56	94.72	584.29	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,732.70	576.56	94.72	584.29	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,832.70	576.56	94.72	584.29	0.00	0.00	0.00	

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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)	
4,000.00	0.00	0.00	3,932.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,032.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,132.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,287.30	0.00	0.00	4,220.00	576.56	94.72	584.29	0.00	0.00	0.00	
<b>WASATCH</b>										
4,300.00	0.00	0.00	4,232.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,332.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,432.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,532.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,632.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,732.70	576.56	94.72	584.29	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,832.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,932.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,032.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,132.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,232.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,332.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,432.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,532.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,632.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,732.70	576.56	94.72	584.29	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,832.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,932.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,032.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,132.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,232.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,332.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,401.30	0.00	0.00	6,334.00	576.56	94.72	584.29	0.00	0.00	0.00	
<b>MESAVERDE</b>										
6,500.00	0.00	0.00	6,432.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,532.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,632.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,732.70	576.56	94.72	584.29	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,832.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,932.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,032.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,132.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,232.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,332.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,432.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,532.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,632.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,732.70	576.56	94.72	584.29	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,832.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,932.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,032.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,132.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,232.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,332.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,432.70	576.56	94.72	584.29	0.00	0.00	0.00	
8,569.30	0.00	0.00	8,502.00	576.56	94.72	584.29	0.00	0.00	0.00	
<b>BONANZA 1023-6O2DS PBHL</b>										

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BONANZA 1023-6O2DS - hit/miss target - Shape - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,502.00	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,343.97	2,292.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,247.15	1,232.00	GREEN RIVER			
4,287.30	4,220.00	WASATCH			
6,401.30	6,334.00	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
1,044.33	1,035.99	94.88	15.59	Start 1472.31 hold at 1044.33 MD
2,516.64	2,458.87	468.12	76.91	Start Drop -1.75
3,367.30	3,300.00	576.56	94.72	Start 5202.00 hold at 3367.30 MD
8,569.30	8,502.00	576.56	94.72	TD at 8569.30



**Scientific Drilling**  
Rocky Mountain Operations

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

**Uintah County, UT UTM12  
Bonanza 1023-60 Pad  
BONANZA 1023-602DS**

**OH**

**Plan: PLAN #1**

## **Standard Planning Report - Geographic**

**16 September, 2010**



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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 1023-6O Pad, SEC 6 T10S R23E				
<b>Site Position:</b>		<b>Northing:</b>	14,519,801.55 usft	<b>Latitude:</b>	39° 58' 16.856 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,993.69 usft	<b>Longitude:</b>	109° 22' 0.689 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 1023-6O2DS, 208' FSL 2079' FEL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,519,781.54 usft	<b>Latitude:</b>	39° 58' 16.658 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,097,995.18 usft	<b>Longitude:</b>	109° 22' 0.674 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,265.00 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	09/16/2010	11.11	65.89	52,404

<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	9.33

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	
1,044.33	14.89	9.33	1,035.99	94.88	15.59	2.00	2.00	0.00	9.33	
2,516.64	14.89	9.33	2,458.87	468.12	76.91	0.00	0.00	0.00	0.00	
3,367.30	0.00	0.00	3,300.00	576.56	94.72	1.75	-1.75	0.00	180.00	
8,569.30	0.00	0.00	8,502.00	576.56	94.72	0.00	0.00	0.00	0.00	BONANZA 1023-6O2

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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	14,519,781.54	2,097,995.18	39° 58' 16.658 N	109° 22' 0.674 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,519,781.54	2,097,995.18	39° 58' 16.658 N	109° 22' 0.674 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,519,781.54	2,097,995.18	39° 58' 16.658 N	109° 22' 0.674 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,519,781.54	2,097,995.18	39° 58' 16.658 N	109° 22' 0.674 W	
<b>Start Build 2.00</b>										
400.00	2.00	9.33	399.98	1.72	0.28	14,519,783.27	2,097,995.43	39° 58' 16.675 N	109° 22' 0.671 W	
500.00	4.00	9.33	499.84	6.89	1.13	14,519,788.45	2,097,996.18	39° 58' 16.726 N	109° 22' 0.660 W	
600.00	6.00	9.33	599.45	15.49	2.54	14,519,797.07	2,097,997.44	39° 58' 16.811 N	109° 22' 0.642 W	
700.00	8.00	9.33	698.70	27.51	4.52	14,519,809.13	2,097,999.19	39° 58' 16.930 N	109° 22' 0.616 W	
800.00	10.00	9.33	797.47	42.95	7.06	14,519,824.61	2,098,001.45	39° 58' 17.083 N	109° 22' 0.584 W	
900.00	12.00	9.33	895.62	61.77	10.15	14,519,843.49	2,098,004.20	39° 58' 17.269 N	109° 22' 0.544 W	
1,000.00	14.00	9.33	993.06	83.97	13.80	14,519,865.75	2,098,007.43	39° 58' 17.488 N	109° 22' 0.497 W	
1,044.33	14.89	9.33	1,035.99	94.88	15.59	14,519,876.69	2,098,009.03	39° 58' 17.596 N	109° 22' 0.474 W	
<b>Start 1472.31 hold at 1044.33 MD</b>										
1,100.00	14.89	9.33	1,089.79	108.99	17.91	14,519,890.85	2,098,011.09	39° 58' 17.736 N	109° 22' 0.444 W	
1,200.00	14.89	9.33	1,186.43	134.35	22.07	14,519,916.27	2,098,014.79	39° 58' 17.986 N	109° 22' 0.391 W	
1,247.15	14.89	9.33	1,232.00	146.30	24.03	14,519,928.26	2,098,016.53	39° 58' 18.104 N	109° 22' 0.366 W	
<b>GREEN RIVER</b>										
1,300.00	14.89	9.33	1,283.07	159.70	26.24	14,519,941.69	2,098,018.49	39° 58' 18.237 N	109° 22' 0.337 W	
1,400.00	14.89	9.33	1,379.72	185.05	30.40	14,519,967.11	2,098,022.19	39° 58' 18.487 N	109° 22' 0.284 W	
1,500.00	14.89	9.33	1,476.36	210.40	34.57	14,519,992.54	2,098,025.89	39° 58' 18.738 N	109° 22' 0.230 W	
1,600.00	14.89	9.33	1,573.00	235.75	38.73	14,520,017.96	2,098,029.59	39° 58' 18.989 N	109° 22' 0.177 W	
1,700.00	14.89	9.33	1,669.65	261.10	42.89	14,520,043.38	2,098,033.29	39° 58' 19.239 N	109° 22' 0.123 W	
1,800.00	14.89	9.33	1,766.29	286.45	47.06	14,520,068.81	2,098,036.99	39° 58' 19.490 N	109° 22' 0.070 W	
1,900.00	14.89	9.33	1,862.93	311.80	51.22	14,520,094.23	2,098,040.68	39° 58' 19.740 N	109° 22' 0.016 W	
2,000.00	14.89	9.33	1,959.58	337.15	55.39	14,520,119.65	2,098,044.38	39° 58' 19.991 N	109° 21' 59.963 W	
2,100.00	14.89	9.33	2,056.22	362.50	59.55	14,520,145.07	2,098,048.08	39° 58' 20.241 N	109° 21' 59.909 W	
2,200.00	14.89	9.33	2,152.86	387.85	63.72	14,520,170.50	2,098,051.78	39° 58' 20.492 N	109° 21' 59.856 W	
2,300.00	14.89	9.33	2,249.51	413.20	67.88	14,520,195.92	2,098,055.48	39° 58' 20.743 N	109° 21' 59.802 W	
2,343.97	14.89	9.33	2,292.00	424.35	69.71	14,520,207.10	2,098,057.11	39° 58' 20.853 N	109° 21' 59.779 W	
<b>8 5/8"</b>										
2,400.00	14.89	9.33	2,346.15	438.56	72.05	14,520,221.34	2,098,059.18	39° 58' 20.993 N	109° 21' 59.749 W	
2,500.00	14.89	9.33	2,442.80	463.91	76.21	14,520,246.77	2,098,062.88	39° 58' 21.244 N	109° 21' 59.695 W	
2,516.64	14.89	9.33	2,458.87	468.12	76.91	14,520,251.00	2,098,063.50	39° 58' 21.285 N	109° 21' 59.686 W	
<b>Start Drop -1.75</b>										
2,600.00	13.43	9.33	2,539.70	488.24	80.21	14,520,271.17	2,098,066.44	39° 58' 21.484 N	109° 21' 59.644 W	
2,700.00	11.68	9.33	2,637.31	509.69	83.73	14,520,292.68	2,098,069.57	39° 58' 21.696 N	109° 21' 59.599 W	
2,800.00	9.93	9.33	2,735.53	528.18	86.77	14,520,311.22	2,098,072.26	39° 58' 21.879 N	109° 21' 59.560 W	
2,900.00	8.18	9.33	2,834.28	543.71	89.32	14,520,326.79	2,098,074.53	39° 58' 22.032 N	109° 21' 59.527 W	
3,000.00	6.43	9.33	2,933.47	556.25	91.38	14,520,339.37	2,098,076.36	39° 58' 22.156 N	109° 21' 59.500 W	
3,100.00	4.68	9.33	3,033.00	565.80	92.95	14,520,348.95	2,098,077.75	39° 58' 22.251 N	109° 21' 59.480 W	
3,200.00	2.93	9.33	3,132.77	572.34	94.03	14,520,355.51	2,098,078.71	39° 58' 22.316 N	109° 21' 59.466 W	
3,300.00	1.18	9.33	3,232.70	575.88	94.61	14,520,359.05	2,098,079.23	39° 58' 22.350 N	109° 21' 59.459 W	
3,367.30	0.00	0.00	3,300.00	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
<b>Start 5202.00 hold at 3367.30 MD</b>										
3,400.00	0.00	0.00	3,332.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
3,500.00	0.00	0.00	3,432.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
3,600.00	0.00	0.00	3,532.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
3,700.00	0.00	0.00	3,632.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
3,800.00	0.00	0.00	3,732.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
3,900.00	0.00	0.00	3,832.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,000.00	0.00	0.00	3,932.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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	
4,100.00	0.00	0.00	4,032.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,200.00	0.00	0.00	4,132.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,287.30	0.00	0.00	4,220.00	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
<b>WASATCH</b>										
4,300.00	0.00	0.00	4,232.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,400.00	0.00	0.00	4,332.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,500.00	0.00	0.00	4,432.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,600.00	0.00	0.00	4,532.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,700.00	0.00	0.00	4,632.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,800.00	0.00	0.00	4,732.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
4,900.00	0.00	0.00	4,832.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,000.00	0.00	0.00	4,932.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,100.00	0.00	0.00	5,032.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,200.00	0.00	0.00	5,132.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,300.00	0.00	0.00	5,232.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,400.00	0.00	0.00	5,332.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,500.00	0.00	0.00	5,432.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,600.00	0.00	0.00	5,532.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,700.00	0.00	0.00	5,632.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,800.00	0.00	0.00	5,732.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
5,900.00	0.00	0.00	5,832.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,000.00	0.00	0.00	5,932.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,100.00	0.00	0.00	6,032.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,200.00	0.00	0.00	6,132.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,300.00	0.00	0.00	6,232.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,400.00	0.00	0.00	6,332.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,401.30	0.00	0.00	6,334.00	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
<b>MESAVERDE</b>										
6,500.00	0.00	0.00	6,432.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,600.00	0.00	0.00	6,532.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,700.00	0.00	0.00	6,632.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,800.00	0.00	0.00	6,732.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
6,900.00	0.00	0.00	6,832.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,000.00	0.00	0.00	6,932.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,100.00	0.00	0.00	7,032.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,200.00	0.00	0.00	7,132.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,300.00	0.00	0.00	7,232.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,400.00	0.00	0.00	7,332.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,500.00	0.00	0.00	7,432.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,600.00	0.00	0.00	7,532.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,700.00	0.00	0.00	7,632.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,800.00	0.00	0.00	7,732.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
7,900.00	0.00	0.00	7,832.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,000.00	0.00	0.00	7,932.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,100.00	0.00	0.00	8,032.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,200.00	0.00	0.00	8,132.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,300.00	0.00	0.00	8,232.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,400.00	0.00	0.00	8,332.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,500.00	0.00	0.00	8,432.70	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
8,569.30	0.00	0.00	8,502.00	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W	
<b>BONANZA 1023-6O2DS PBHL</b>										

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5265' & RKB 14' @ 5279.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-6O Pad	<b>North Reference:</b>	True
<b>Well:</b>	BONANZA 1023-6O2DS	<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 1023-6O2DS - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,502.00	576.56	94.72	14,520,359.74	2,098,079.32	39° 58' 22.357 N	109° 21' 59.458 W

Casing Points					
Measured Depth	Vertical Depth		Name	Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
2,343.97	2,292.00	8 5/8"		8.625	11.000

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
1,247.15	1,232.00	GREEN RIVER			
4,287.30	4,220.00	WASATCH			
6,401.30	6,334.00	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	
1,044.33	1,035.99	94.88	15.59	Start 1472.31 hold at 1044.33 MD	
2,516.64	2,458.87	468.12	76.91	Start Drop -1.75	
3,367.30	3,300.00	576.56	94.72	Start 5202.00 hold at 3367.30 MD	
8,569.30	8,502.00	576.56	94.72	TD at 8569.30	

Bonanza 1023-6I3DS/ 1023-6J4AS/ 1023-6O1BS/ 1023-6O2DS/  
 1023-6O3AS/ 1023-6P2BS/ 1023-6P3AS/ 1023-6P3CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6O Pad  
 Surface Use Plan of Operations  
 1 of 8

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

### Bonanza 1023-6O Pad

<b><u>API #</u></b>	<b><u>BONANZA 1023-6I3DS</u></b>		
	Surface: 178 FSL / 2077 FEL	SWSE	Lot
	BHL: 1443 FSL / 745 FEL	NESE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6J4AS</u></b>		
	Surface: 198 FSL / 2079 FEL	SWSE	Lot
	BHL: 1730 FSL / 1580 FEL	NWSE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6O1BS</u></b>		
	Surface: 228 FSL / 2080 FEL	SWSE	Lot
	BHL: 1150 FSL / 1935 FEL	SWSE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6O2DS</u></b>		
	Surface: 208 FSL / 2079 FEL	SWSE	Lot
	BHL: 785 FSL / 1984 FEL	SWSE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6O3AS</u></b>		
	Surface: 218 FSL / 2080 FEL	SWSE	Lot
	BHL: 520 FSL / 2200 FEL	SWSE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6P2BS</u></b>		
	Surface: 188 FSL / 2078 FEL	SWSE	Lot
	BHL: 1266 FSL / 1312 FEL	SESE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6P3AS</u></b>		
	Surface: 169 FSL / 2077 FEL	SWSE	Lot
	BHL: 383 FSL / 960 FEL	SESE	Lot
<b><u>API #</u></b>	<b><u>BONANZA 1023-6P3CS</u></b>		
	Surface: 158 FSL / 2076 FEL	SWSE	Lot
	BHL: 95 FSL / 1250 FEL	SESE	Lot

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.

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 are "onlease", no ROW needed.**

N/A. Please refer to Topo D2, Pad and Pipeline Detail.

**The following segments require a ROW.**

±1,540' (0.03 miles) – Section 7 T10S R23E (NW/4 NE/4) – On-lease UTU38420, from the edge of pad to the T-intersection in NW/4 NE/4. Please refer to Exhibit B2, Lines 9 and 8.

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

See MDP for additional details on road construction.

No new road construction is required.

**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 1023-6O, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 30, 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 ±3,200' and the individual segments are broken up as follows:

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

±610' (0.1 miles) – Section 6 T10S R23E (SW/4 SE/4) – On-lease UTU38419, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D- Pad and Pipeline Detail.

**The following segments require a ROW.**

- ±1,590' (0.03 miles) – Section 7 T10S R23E (NW/4 NE/4) – On-lease UTU38420, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to the tie-in at the new 12" buried gas gathering pipeline (NW/4 NE/4). Please refer to Exhibit A1, Lines 18 and 17.
- ±1,000' (0.2 miles) – Section 7 T10S R23E (NW/4 NE/4) – Lease UTU38420, BLM surface, New 12" buried gas gathering pipeline from the tie-in (NW/ NE/4) to the tie-in at the existing 16" buried gas gathering pipeline (SE/4 NW/4). Please refer to Exhibit A1, Line 15.

**LIQUID GATHERING**

The total liquid gathering pipeline distance from the separator to the tie in point is ±3,200' and the individual segments are broken up as follows:

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

- ±610' (0.1 miles) – Section 6 T10S R23E (SW/4 SE/4) – On-lease UTU38419, 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.

**The following segments require a ROW.**

- ±2,590' (0.4 miles) – Section 7 T10S R23E (NW/4 NE/4) – Lease UTU38420, BLM surface, New 6" 6" buried liquid gathering pipeline from the edge of the pad to the tie-in at the existing buried liquid gathering line (SE/4 NW/4 of section 7).

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 its 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>e 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/Mineral 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:**

- Construction: 30 Mil Double Felt
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" topsoil and will be move and put around the corner
- Need to obtain a storm water permit
- BMP on the pit use (waddles, hay bails or silt fence)

**Resource Reports:**

A Class I literature survey was completed on August 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 May 5, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-19.

Bonanza 1023-6I3DS/ 1023-6J4AS/ 1023-6O1BS/ 1023-6O2DS/  
1023-6O3AS/ 1023-6P2BS/ 1023-6P3AS/ 1023-6P3CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6O Pad  
Surface Use Plan of Operations  
7 of 8

Biological field survey was completed on May 3, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-220.

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

*See MDP for additional information on ROW*

Bonanza 1023-6I3DS/ 1023-6J4AS/ 1023-6O1BS/ 1023-6O2DS/  
1023-6O3AS/ 1023-6P2BS/ 1023-6P3AS/ 1023-6P3CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6O Pad  
Surface Use Plan of Operations  
8 of 8

**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

December 30, 2010

Date



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

June 30, 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 1023-6O2DS  
T10S- R23E  
Section 6: SWSE/SWSE  
208' FSL, 2079' FEL (surface)  
785' FSL, 1984' 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 1023-6O2DS 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,

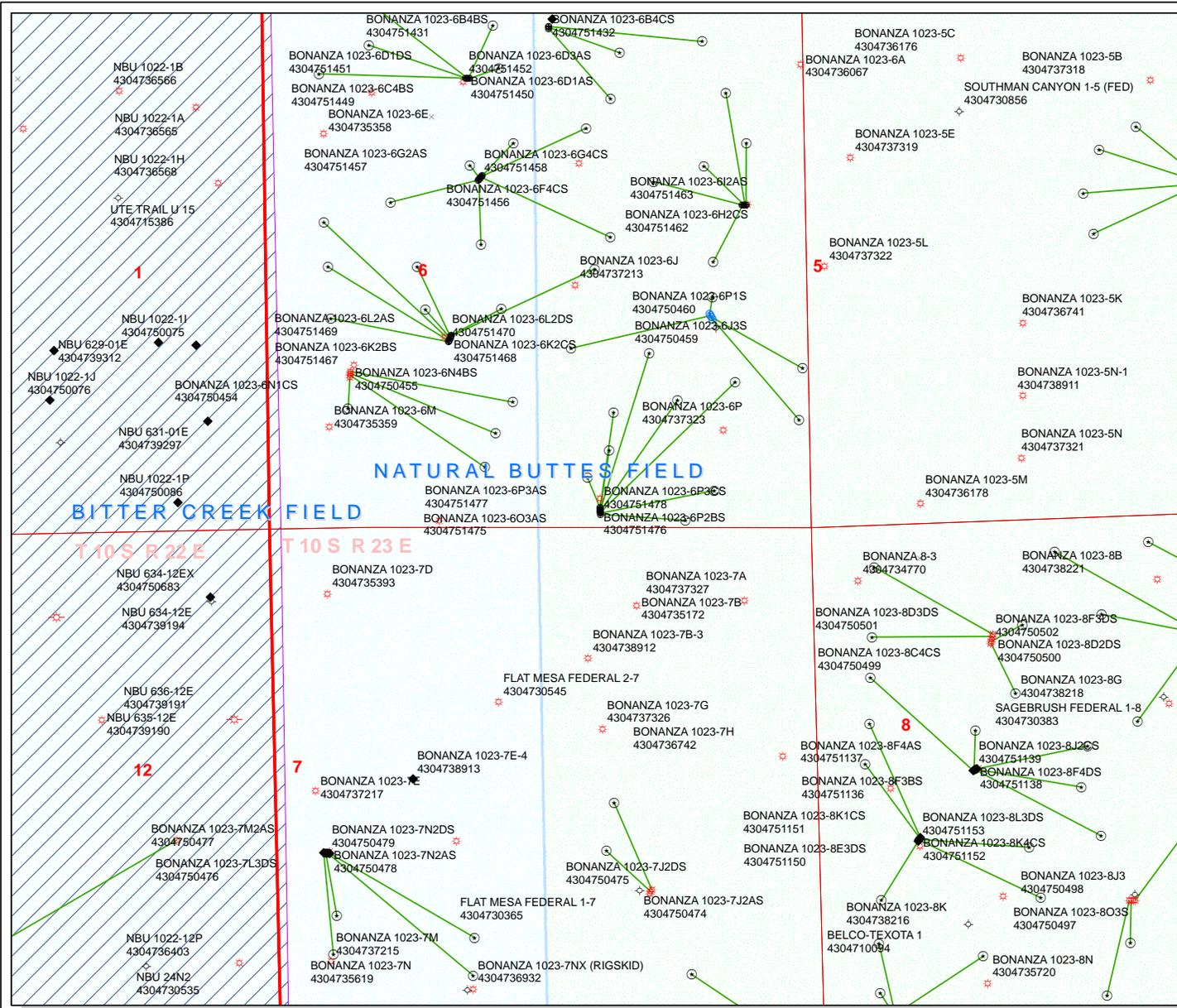
KERR-MCGEE OIL & GAS ONSHORE LP

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

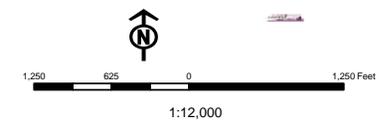
Jessy Pink  
Landman

**API Number: 4304751474**  
**Well Name: BONANZA 1023-6O2DS**  
**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



Units STATUS	Wells Query Status
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	DPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WIW - Water Injection Well
TERMINATED	WSW - Water Supply Well
Sections	
Township	



# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 1/4/2011

**API NO. ASSIGNED:** 43047514740000

**WELL NAME:** BONANZA 1023-6O2DS

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

**PHONE NUMBER:** 720 929-6086

**CONTACT:** Gina Becker

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

**Permit Tech Review:**

**SURFACE:** 0208 FSL 2079 FEL

**Engineering Review:**

**BOTTOM:** 0785 FSL 1984 FEL

**Geology Review:**

**COUNTY:** UINTAH

**LATITUDE:** 39.97121

**LONGITUDE:** -109.36702

**UTM SURF EASTINGS:** 639456.00

**NORTHINGS:** 4425628.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU38419

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

**SURFACE OWNER:** 1 - Federal

**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:**  
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 1023-6O2DS

**API Well Number:** 43047514740000

**Lease Number:** UTU38419

**Surface Owner:** FEDERAL

**Approval Date:** 1/19/2011

**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 rectangular box.

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 05 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

5. Lease Serial No.  
UTU38419

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.  
CA-60768 CR-3

8. Lease Name and Well No.  
BONANZA 1023-602DS

9. API Well No.  
**43 047 51474**

10. Field and Pool, or Exploratory  
BONANZA

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

12. County or Parish  
UINTAH

13. State  
UT

17. Spacing Unit dedicated to this well

20. BLM/BIA Bond No. on file  
WYB000291

23. Estimated duration  
60-90 DAYS

1a. Type of Work:  DRILL  REENTER  
1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
KERR-MCGEE OIL & GAS ONSHORE  
Contact: GINA T BECKER  
Email: GINA.BECKER@ANADARKO.COM

3a. Address  
P.O. BOX 173779  
DENVER, CO 80202-3779  
3b. Phone No. (include area code)  
Ph: 720-929-6086  
Fx: 720-929-7086

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SWSE 208FSL 2079FEL 39.97126 N Lat, 109.36753 W Lon  
At proposed prod. zone SWSE 785FSL 1984FEL 39.97284 N Lat, 109.36720 W Lon

14. Distance in miles and direction from nearest town or post office\*  
APPROXIMATELY 51.7 MILES SOUTH OF VERNAL, UTAH

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
785

16. No. of Acres in Lease  
516.80

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
495

19. Proposed Depth  
8569 MD  
8502 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
5266 GL

22. Approximate date work will start  
06/30/2011

24. Attachments

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

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

25. Signature (Electronic Submission) Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086 Date 01/04/2011

Title REGULATORY ANALYST II

Approved by (Signature) Name (Printed/Typed) Jerry Kenczka Date NOV 16 2011

Title Assistant Field Manager 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 **CONDITIONS OF APPROVAL 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.

Additional Operator Remarks (see next page)

Electronic Submission #100027 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal Committed to AFMSS for processing by ROBIN R. HANSEN on 01/06/2011 ()

NOTICE OF APPROVAL

RECEIVED

NOV 21 2011

DIV. OF OIL, GAS & MINING

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*





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

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



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

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	SWSE, Sec. 6, T10S, R23E (S) SWSE, Sec. 6, T10S, R23E (B)
Well No:	Bonanza 1023-6O2DS	Lease No:	UTU-38419
API No:	43-047-51474	Agreement:	CA UTU-60768

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 (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (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 (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (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 COAs**

- 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.
- During operations if any vertebrate paleontological resources are discovered, in accordance with Section 6 of Form 3100-11 and 43 CFR 3162.1, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hours of the discovery, and a decision as to the preferred alternative/course of action will be rendered.

**Mitigation for Invasive Weeds**

- All vehicles and equipment will 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 will 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.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

**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\_Wellogs@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 work-over 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 (1/4<sup>1</sup>/<sub>4</sub>, 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, work-over, 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 work-over 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.

<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> UTU38419	
<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 1023-6O2DS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047514740000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511
<b>9. FIELD and POOL or WILDCAT:</b> MATHEW BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0208 FSL 2079 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE 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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/19/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
 January 23, 2012

Date: \_\_\_\_\_

By: \_\_\_\_\_

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/17/2012	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047514740000**

API: 43047514740000

Well Name: BONANZA 1023-6O2DS

Location: 0208 FSL 2079 FEL QTR SWSE SEC 06 TWNP 100S RNG 230E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/19/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Danielle Piernot

Date: 1/17/2012

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
<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.	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 1023-6O2DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514740000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514 9. FIELD and POOL or WILDCAT: MATERIAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0208 FSL 2079 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/2/2012  <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 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.

MIRU TRIPPLE BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.  
 RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD  
 WELL ON 02/02/2012 AT 1400 HRS.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 February 08, 2012**

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/7/2012	

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 1023-6O2DS  
Qtr/Qtr SWSE Section 6 Township 10S Range 23E  
Lease Serial Number UTU-38419  
API Number 4304751474

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

Date/Time 02/02/2012 1200 HRS AM  PM

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

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

RECEIVED  
JAN 31 2012  
DIV. OF OIL, GAS & MINING

Date/Time 02/12/2012 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> UTU38419
<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 1023-6O2DS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047514740000
<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>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0208 FSL 2079 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MOUNTAIN 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"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/12/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON FEBRUARY 10, 2012. DRILLED SURFACE HOLE TO 2479'. 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**  
 February 13, 2012

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/13/2012	

**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
4304751473	BONANZA 1023-601BS		SWSE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18415	2/2/2012		2/15/12		
<b>Comments:</b> MIRU TRIPPLE A BUCKET RIG. WSMVD SPUD WELL ON 02/02/2012 AT 0800 HRS BHL: SWSE							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751475	BONANZA 1023-603AS		SWSE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18416	2/2/2012		2/15/12		
<b>Comments:</b> MIRU TRIPPLE A BUCKET RIG. WSMVD SPUD WELL ON 02/02/2012 AT 1100 HRS. BHL: SWSE							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751474	BONANZA 1023-602DS		SWSE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18417	2/2/2012		2/15/12		
<b>Comments:</b> MIRU TRIPPLE A BUCKET RIG. WSMVD SPUD WELL ON 02/02/2012 AT 1400 HRS. BHL: SWSE							

**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)

*[Handwritten Signature]*

Signature

REGULATORY ANALYST

2/7/2012

Title

Date

**RECEIVED**

**FEB 07 2012**

(5/2000)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
<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.	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 1023-6O2DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514740000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0208 FSL 2079 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES  COUNTY: UINTAH  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/12/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" 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 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.

The operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for closed loop drilling option, surface casing and production casing changes. 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: March 20, 2012

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/12/2012	

**Kerr-McGee Oil & Gas Onshore. L.P.****BONANZA 1023-602DS**

Surface: 208 FSL / 2079 FEL SWSE  
 BHL: 785 FSL / 1984 FEL SWSE

Section 6 T10S R23E

Uintah County, Utah  
 Mineral Lease: UTU-38419

**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	1,222'	
Birds Nest	1,462'	Water
Mahogany	1,926'	Water
Wasatch	4,213'	Gas
Mesaverde	6,312'	Gas
Sego	8,502'	Gas
TVD	8,502'	
TD	8,569'	

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 8502' TVD, approximately equals  
5,441 psi 0.64 psi/ft = actual bottomhole gradient

---

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,559 psi (bottom hole pressure  
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

---

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-  
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

**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 for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 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 8-5/8 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)). 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	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,380	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.15		3.32
						1.11	1.15	6.66	

**Surface Casing:**

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**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
Option 1	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
<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>							
SURFACE	LEAD	1,880'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00	3.82
Option 2	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	3,709'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	290	35%	12.00	3.38
	TAIL	4,860'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,150	35%	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**

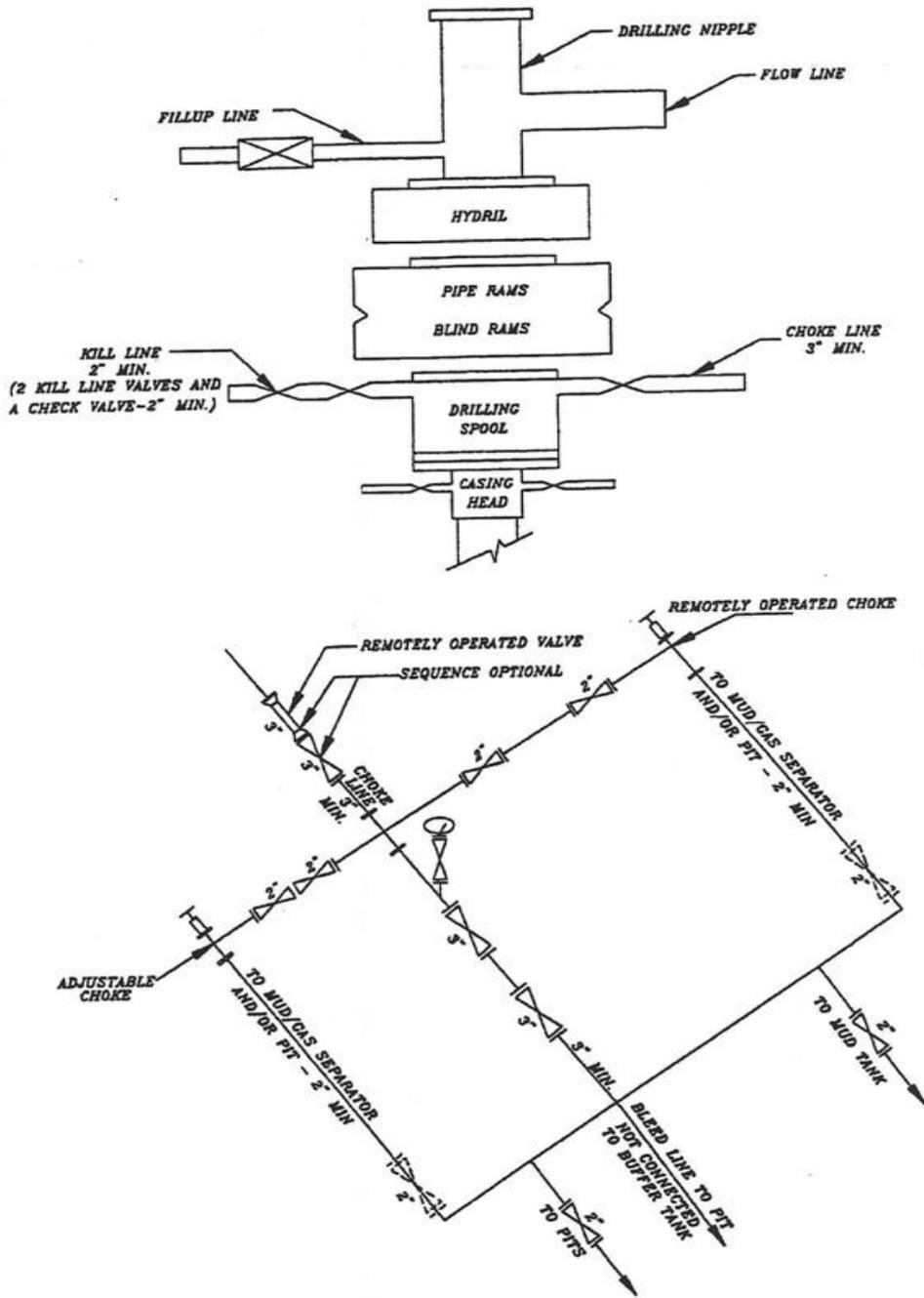
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

**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:** \_\_\_\_\_  
 Nick Spence / Danny Showers / Chad Loesel  
**DRILLING SUPERINTENDENT:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
 Kenny Gathings / Lovel Young

### EXHIBIT A BONANZA 1023-6O2DS



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

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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<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> UTU38419
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <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 1023-6O2DS
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047514740000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0208 FSL 2079 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 23.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> MOUNTAIN BUTTES
<b>5. LATERAL BUTTES</b>		<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>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="text"/> OTHER:	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/30/2012		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2,479' TO 8,620' ON MARCH 29, 2012. RAN 4-1/2" 11.6# I-80 PRODUCING CASING. CEMENTED PRODUCTION CASING. RELEASED XTREME 12 RIG ON MARCH 30, 2012 @ 20:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          April 04, 2012</b>		
<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> 4/3/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU38419
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-6O2DS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>9. API NUMBER:</b> 43047514740000
<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> MATERIAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0208 FSL 2079 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE 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>	
<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: 7/6/2012	<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 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 type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
No activity for the month of June 2012. Well TD at 8,620'.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 10, 2012</b>		
<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 7/6/2012

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
<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.	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 1023-6O2DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514740000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514  9. FIELD and POOL or WILDCAT: MATHEW BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0208 FSL 2079 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/2/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well in July 2012. Well TD at 8,620'.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 August 07, 2012**

<b>NAME (PLEASE PRINT)</b> Cara Mahler	<b>PHONE NUMBER</b> 720 929-6029	<b>TITLE</b> Regulatory Analyst I
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/2/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
<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.	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 1023-6O2DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514740000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514  9. FIELD and POOL or WILDCAT: MATHEW BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0208 FSL 2079 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH  STATE: UTAH

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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/4/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well in August 2012. Well TD at 8,620

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 September 06, 2012**

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/4/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
<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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: PONDEROSA
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514740000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514  9. FIELD and POOL or WILDCAT: SOUTHERN BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0208 FSL 2079 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH  STATE: UTAH

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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 9/4/2012. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 September 07, 2012

<b>NAME (PLEASE PRINT)</b> Cara Mahler	<b>PHONE NUMBER</b> 720 929-6029	<b>TITLE</b> Regulatory Analyst I
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/7/2012	

RECEIVED

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCT 02 2012

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOGGING

5. Lease Serial No.  
UTU8419

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

2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE | Contact: CARA MAHLER | Mail: cara.mahler@anadarko.com  
 3. Address: 1099 18TH STREET, SUITE 1800 DENVER, CO 80202 | 3a. Phone No. (include area code) Ph: 720-929-6029

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface SWSE 208FSL 2079FEL 39.971259 N Lat, 109.367533 W Lon  
 At top prod interval reported below SWSE 785FSL 1990FEL  
 At total depth SWSE 791FSL 1990FEL *BHL by HSM*

6. If Indian, Allottee or Tribe Name  
 7. Unit or CA Agreement Name and No. UTU88209A  
 8. Lease Name and Well No. BONANZA 1023-602DS  
 9. API Well No. 43-047-51474  
 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 02/02/2012 | 15. Date T.D. Reached 03/29/2012 | 16. Date Completed  D & A  Ready to Prod. 09/04/2012  
 17. Elevations (DF, KB, RT, GL)\* 5265 GL  
 18. Total Depth: MD 8620 TVD 8541 | 19. Plug Back T.D.: MD 8564 TVD 8485 | 20. Depth Bridge Plug Set: MD TVD  
 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RCBL/GR/CCL | 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	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 J-55	28.0	0	2450		675		0	
7.875	4.500 I-80	11.6	0	8609		1330		20	

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	8104							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6113	6338	6113 TO 6338	0.360	24	OPEN
B) MESAVERDE	6951	8463	6951 TO 8463	0.360	168	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
6113 TO 8463	PUMP 8,460 BBLs SLICK H2O & 193,927 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
09/04/2012	09/05/2012	24	→	0.0	2048.0	0.0			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 1512	2115.0	→	0	2048	0		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		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #151295 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

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	1237
				BIRD'S NEST	1485
				MAHOGANY	1965
				WASATCH	4275
				MESAVERDE	6371

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 ? in. bit. The remainder of the surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 4,959 ft.; LTC csg was run from 4,959 ft. to 8,609 ft. 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 #151295 Verified by the BLM Well Information System.  
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (please print) CARA MAHLER Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) Date 09/21/2012

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 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 12/8/2011

End Date: 3/30/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/10/2012	19:30 - 22:30	3.00	MIRU	01	B	P		SKID RIG 10' TO BONANZA 1023-6O2DS, WELL 3/8). 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.
	22:30 - 0:00	1.50	DRLSUR	02	D	P		DRILL 12.25" HOLE 44'- 210'. (166', 83'/HR) RPM=45, WOB 5-15K. PSI ON/OFF 600/400. UP/DOWN/ ROT 20/20/20 K. DRAG 0 K. CIRC RESERVE W. 8.3# WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
2/11/2012	0:00 - 2:00	2.00	DRLSUR	06	A	P		POOH, PU, 11" BIT AND DIRECTIONAL TOOLS, TIH T/ 210'
	2:00 - 12:00	10.00	DRLSUR	02	D	P		DRILL F/210 T/1660 (1450' @ 145' PER HR) WOB 20K, PSI ON/OFF 1370/1160, RPM40 UP/DWN/ROT 78/59/66
	12:00 - 21:30	9.50	DRLSUR	02	D	P		LOST CIRC @ 1120' & APPLIED AIR DRILL F/1660-2479 (819' @ 91' PER HR) WOB 20K, PSI ON/OFF 1760/1500, RPM40 UP/DWN/ROT 91/67/78 TD @ 21:30 CIRC F/CSNG
	21:30 - 23:30	2.00	DRLSUR	05	D	P		LDDS, BHA & DIR TOOLS
	23:30 - 0:00	0.50	DRLSUR	06	D	P		LDDS, BHA & DIR TOOLS
2/12/2012	0:00 - 3:00	3.00	DRLSUR	06	D	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U.
	3:00 - 4:00	1.00	DRLSUR	12	A	P		RUN 55 JTS 8 5/8, 28# CSNG. SHOE SET @ 2439', BAFFLE SET @ 2393' LAND CSNG 06:30
	4:00 - 6:30	2.50	DRLSUR	12	C	P		WAIT ON CEMENTERS
	6:30 - 7:30	1.00	DRLSUR	21	E	Z		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.
	7:30 - 8:30	1.00	DRLSUR	12	B	P		IDENTIFY & REPAIR OIL LEAK ON CEMENT TRUCK
	8:30 - 9:00	0.50	DRLSUR	22	L	Z		PRESSURE TEST LINES TO 2000 PSI. PUMP 140 BBLS 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/ 149 BBLS OF H2O. NO CIRC THROUGH OUT. FINAL LIFT OF150 PSI AT 4 BBL/MIN. BUMP PLUG W/300 PSI HELD FOR 5 MIN. FLOAT HELD. PUMP (150 SX) 30.64 BBLS OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE. SHUT DOWN AND CLEAN TRUCK. NO CEMENT TO SURFACE.
	9:00 - 10:30	1.50	DRLSUR	12	E	P		WOC , PUMP (125 SX) 25.53 BBLS 15.8 CMT DOWN BACKSIDE. NO CMT T/SURFACE
	10:30 - 12:30	2.00	DRLSUR	13	A	P		

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 12/8/2011

End Date: 3/30/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 14:00	1.50	DRLSUR	13	A	P		WOC, PUMP (100 SX) 20.42 BBLS 15.8 CMT DOWN BACKSIDE.NO CMT T/SURFACE RELEASE RIG @ 14:30
3/26/2012	14:30 - 15:30	1.00	MIRU	01	C	P		TOP OFF CMT W/TRIPLE A DRILLING (100 SX) PULL CATWALK FORWARD. BREAK VIBRATING HOSE. ADJUST CHOKE HOSE TARGET T. SKID RIG 10' OVER WELL 3 OF 8. CENTER RIG AND LEVEL. SET BACK IN CATWALK.
	15:30 - 16:00	0.50	MIRU	14	A	P		NIPPLE UP BOPE. NIPPLE UP CHOKE LINE. REINSTALL FLOW LINE.
	16:00 - 16:30	0.50	MIRU	07	A	P		SERVICE RIG. PERFORM PRESPUD AUDIT. CHAIN UP FLOW LINE.
	16:30 - 22:30	6.00	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN.
	22:30 - 23:00	0.50	MIRU	14	B	P		SET WEAR BUSHING WITH EVEN WEAR. 8" ID. INSPECT RIG. INSPECT BRAKE ADJUSTMENT AND EMERGENCY STOP. PREPARE BHA.
	23:00 - 0:00	1.00	MIRU	06	A	P		PICK UP WEATHERFORD 1.41 BH .16 RPG MOTOR. MAKE UP SECURITY FX65 SN 1196897 WITH 6-15'S. SCRIBE MOTOR. PICK UP DIRECTIONAL TOOLS. INSTALL EM TOOL.
3/27/2012	0:00 - 2:30	2.50	MIRU	02	D	P		TRIP IN HOLE WITH HEAVY WEIGHT DRILL PIPE. INSTALL NEW ROTATING HEAD RUBBER. TRIP IN HOLE AND TAG CEMENT @ 2385'.
	2:30 - 3:30	1.00	DRLPRO	02	F	P		SPUD 3/27/2012 02:30 DRILL CEMENT AND FLOAT EQUIPMENT 2385'-2490'. SURFACE CASING SHOE @ 2450'. DRILLED WITH 15K ON BIT AND 45 RPM. @ 450 GPM.

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

Well: BONANZA 1023-6O2DS (YELLOW)		Spud Date: 2/10/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-6O PAD	Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING		Start Date: 12/8/2011	End Date: 3/30/2012
Active Datum: RKB @5,280.00usft (above Mean Sea Level)		UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:30 - 5:30	2.00	DRLPRO	02	D	P		<p>DRILL SLIDE 2490'- 2674' (184', 92'/HR)            WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 21K.            ROTARY RPM 50-65. MUD MOTOR RPM 82.            STROKES PER MINUTE 115 GALLONS PER MINUTE 517.            ON/OFF PSI 1600/1200. DIFFERENTIAL 300.            TORQUE HIGH/LOW 7400/6150. OFF BOTTOM TORQUE 4000'            STRING WEIGHT UP/DOWN/ROT 94/73/77. DRAG 17K            COME OUT OF SHOE @ 20 DEGREES AND DROP INTO TARGET.            5' HIGH 2' RIGHT OF LINE.            SLIDE 30' AT 80'/HR.            SLIDE 16% ROTATE 84%.            RUNNING 2 CENTRIFUGES AND DE WATERING.( WT 8.4 VIS 26. )            USED 10 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 24 BBLS DRILL WATER INTO FORMATION. (LOSING 12 BBLS/HR)            NO FLARE.</p>
	5:30 - 6:00	0.50	DRLPRO	07	A	P		<p>RIG SERVICE. SERVICE TOP DRIVE. SERVICE CROWN. CHECK BRAKES FOR ADJUSTMENT AND TEST EMERGENCY STOP.</p>
	6:00 - 12:00	6.00	DRLPRO	02	D	P		<p>DRILL SLIDE 2674'-3763' (1089', 181'/HR)            WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 21K.            ROTARY RPM 62. MUD MOTOR RPM 82.            STROKES PER MINUTE 115 GALLONS PER MINUTE 517.            ON/OFF PSI 1875/1425. DIFFERENTIAL 450.            TORQUE HIGH/LOW 9400/8000. OFF BOTTOM TORQUE 4000'            STRING WEIGHT UP/DOWN/ROT 109/75/85. DRAG 24K            COME OUT OF SHOE @ 20 DEGREES AND DROP INTO TARGET.            19' NORTH 13' WEST OF CENTER            SLIDE 63' AT 80'/HR.            SLIDE 6% ROTATE 94%.            RUNNING 2 CENTRIFUGES AND DE WATERING.( WT 8.4 VIS 26. )            USED 59 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 104 BBLS DRILL WATER INTO FORMATION. (LOSING 17 BBLS/HR)            PUMP 60 VIS SWEEPS AND 5% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE.            NO FLARE.            (BOP DRILL 30 SEC)</p>

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

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 12/8/2011

End Date: 3/30/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 17:30	5.50	DRLPRO	02	D	P		<p>DRILL SLIDE 3763'- 4852' (1089', 198'/HR)                      WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 21K.                      ROTARY RPM 62. MUD MOTOR RPM 82.                      STROKES PER MINUTE 115 GALLONS PER MINUTE 517.                      ON/OFF PSI 2000/1600. DIFFERENTIAL 400.                      TORQUE HIGH/LOW 9800/7500. OFF BOTTOM TORQUE 5000'                      STRING WEIGHT UP/DOWN/ROT 116/90/100. DRAG 16K                      SLIDING WITH IN TARGET                      5' NORTH 6' WEST                      SLIDE 24' AT 70'/HR.                      SLIDE 2% ROTATE 98%.                      RUNNING 2 CENTRIFUGES AND DE WATERING.( WT 8.5 VIS 26. )                      USED 59 BBLS DRILL WATER FOR HOLE VOLUME.                      LOSS 123 BBLS DRILL WATER INTO FORMATION. (LOSING 20 BBLS/HR)                      PUMP 60 VIS SWEEPS AND 5% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE.                      NO FLARE.</p>
	17:30 - 18:00	0.50	DRLPRO	07	A	P		<p>SERVICE RIG. SERVICE TOP DRIVE. GREASE CROWN. CHECK BRAKE ADJUSTMENT AND EMERGENCY STOP.</p>
	18:00 - 0:00	6.00	DRLPRO	02	D	P		<p>DRILL SLIDE 4852'- 5796' (954', 159'/HR)                      WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 21K.                      ROTARY RPM 62. MUD MOTOR RPM 82.                      STROKES PER MINUTE 115 GALLONS PER MINUTE 517.                      ON/OFF PSI 2250/1800. DIFFERENTIAL 450.                      TORQUE HIGH/LOW 10700/8500. OFF BOTTOM TORQUE 5600'                      STRING WEIGHT UP/DOWN/ROT 128/92/107. DRAG 21K                      SLIDING WITH IN TARGET                      5' NORTH 6' WEST                      SLIDE 32' AT 65'/HR.                      SLIDE 3% ROTATE 97%.                      RUNNING 2 CENTRIFUGES AND DE WATERING.( WT 8.5 VIS 26. )                      USED 51 BBLS DRILL WATER FOR HOLE VOLUME.                      LOSS 73 BBLS DRILL WATER INTO FORMATION. (LOSING 12 BBLS/HR)                      PUMP 60 VIS SWEEPS AND 10% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE.                      NO FLARE.                      (BOP DRILL 30 SEC)</p>

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

Well: BONANZA 1023-6O2DS (YELLOW)		Spud Date: 2/10/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-6O PAD	Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING		Start Date: 12/8/2011	End Date: 3/30/2012
Active Datum: RKB @5,280.00usft (above Mean Sea Level)		UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/28/2012	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 5796'-6503' (707', 129'/HR) WEIGHT ON BIT 18-26K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 62. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2350/1850. DIFFERENTIAL 500. TORQUE HIGH/LOW 11200/8200. OFF BOTTOM TORQUE 6200' STRING WEIGHT UP/DOWN/ROT 137/96/113. DRAG 24K SLIDING WITH IN TARGET 2' NORTH 8' WEST SLIDE 27' AT 50'/HR. SLIDE 4% ROTATE 96%. RUNNING 2 CENTRIFUGES AND DE WATERING.( WT 8.5 VIS 26. ) USED 38 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 67 BBLs DRILL WATER INTO FORMATION. (LOSING 11 BBLs/HR) PUMP 60 VIS SWEEPS AND 10% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE. NO FLARE. (BOP DRILL 30 SEC)
	5:30 - 6:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK BRAKE ADJUSTMENT AND EMERGENCY STOP
	6:00 - 17:00	11.00	DRLPRO	02	D	P		DRILL SLIDE 6503'-7757' (1,254', 114'/HR) WEIGHT ON BIT 18-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2510/2164. DIFFERENTIAL 350. TORQUE HIGH/LOW 12000/8200. OFF BOTTOM TORQUE 6300' STRING WEIGHT UP/DOWN/ROT 170/110/145. DRAG 25K SLIDING WITH IN TARGET 11' NORTH 10' WEST SLIDE 62' AT 50'/HR. SLIDE 7% ROTATE 93%. RUNNING 2 CENTRIFUGES AND DE WATERING TO 7500' STOPPED DEWATERING AND RUNNING BOTH CENTRIFUGES CONVENTIONAL.( WT 8.5 VIS 26. ) USED 68 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 188 BBLs DRILL WATER INTO FORMATION. (LOSING 17 BBLs/HR) PUMP 60 VIS SWEEPS AND 10% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE. NO FLARE.
	17:00 - 17:30	0.50	DRLPRO	07	A	P		SERVICE TOP DRIVE, CHANGE OUT SALA BLOCK IN DERRICK

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

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 12/8/2011

End Date: 3/30/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRILL SLIDE 7757'-8406' (649', 100'/HR) WEIGHT ON BIT 18-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 3010/2771. DIFFERENTIAL 239. TORQUE HIGH/LOW 12050/8300. OFF BOTTOM TORQUE 6500' STRING WEIGHT UP/DOWN/ROT 175/117/149. DRAG 26K SLIDING WITH IN TARGET 10' NORTH 6' WEST SLIDE 0% ROTATE 100%. STOPED DEWATERING AND RUNNING BOTH CENTRIFUGES CONVENTIONAL. ( WT 8.6 VIS 30. ) USED 35 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 20 BBLs DRILL WATER INTO FORMATION. (LOSING 3 BBLs/HR) PUMP 60 VIS SWEEPS AND 10% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE. 15' FLARE.
3/29/2012	0:00 - 2:30	2.50	DRLPRO	02	D	P		DRILL SLIDE 8406'-8620' (214', 86'/HR) TD@ 03/29/2012 02:30 WEIGHT ON BIT 18-26K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 60. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 3215/2863. DIFFERENTIAL 352. TORQUE HIGH/LOW 12045/8610. OFF BOTTOM TORQUE 6500' STRING WEIGHT UP/DOWN/ROT 180/125/155. DRAG 25K ROTATING WITH IN TARGET 6' NORTH 6' WEST SLIDE 0% ROTATE 100%. STOPED DEWATERING AND RUNNING BOTH CENTRIFUGES CONVENTIONAL. ( WT 11.6 VIS 36. ) USED 35 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 8 BBLs DRILL WATER INTO FORMATION. (LOSING 3 BBLs/HR) PUMP 60 VIS SWEEPS AND 10% LCM SWEEPS TO HELP CONTROL LOSSES AND CLEAN HOLE. NO FLARE.
	2:30 - 4:30	2.00	EVALPR	05	B	P		CIRCULATE AND CONDITION HOLE. RAISE MUD WT TO 11.6#. CIRCULATE HOLE CLEAN. MUD WT IN 11.6 VIS 36. MUD WT OUT 11.6 VIS 38. PUMP 15 SX OF SAWDUST EVERY HR WHILE RAISING WT. NO LOSSES. MIX 60 BBL 13.0# PILL AND PUMP 30 BBLs FOR DRY JOB. HOLD THE REST.

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6O2DS (YELLOW)			Spud Date: 2/10/2012		
Project: UTAH-UINTAH		Site: BONANZA 1023-6O PAD		Rig Name No: PROPETRO 11/11, XTC 12/12	
Event: DRILLING		Start Date: 12/8/2011		End Date: 3/30/2012	
Active Datum: RKB @5,280.00usft (above Mean Sea Level)			UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:30 - 8:30	4.00	EVALPR	06	E	P		WPER TRIP TO SHOE. PULL STRAIGHT OFF BOTTOM AT 45 K OVER STRING WEIGHT. TRIP OUT TO SHOE. PULLED OUT SLICK. HOLE TOOK PROPER FLUID. NO FLOW ON FLOW CHECKS.
	8:30 - 9:30	1.00	EVALPR	09	A	P		SLIP AND CUT DRILL LINE. CHECK BRAKES ADJUSTMENT AND TEST EMERGENCY STOP.
	9:30 - 13:30	4.00	EVALPR	06	E	P		WPER TRIP BACK IN HOLE. WASH THROUGH TIGHT HOLE @ 5061'-5101'. GOOD DISPLACEMENT THROUGH OUT TRIP. 20' FILL ON BOTTOM. NO LOSSES OR GAIN ON TRIP IN.
	13:30 - 16:00	2.50	EVALPR	05	A	P		CIRCULATE AND CONDITION HOLE 2 BOTTOMS UP. NO FLARE ON BOTTOMS UP. MUD IN WT 11.7 VIS 38. MUD OUT WT 11.6 VIS 40. NO LOSSES. PUMP AROUND LCM SWEEP. MIX 40 BBLS OF 13# MUD AND PUMP 30 BBLS.
	16:00 - 22:30	6.50	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS. NO TIGHT HOLE ON TRIP OUT. HOLE TAKING PROPER FLUID ON TRIP OUT. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER AT HEAVY WEIGHT DRILL PIPE. LAY DOWN DIRECTIONAL TOOLS. BREAK BIT AND LAY DOWN MOTOR.
	22:30 - 0:00		EVALPR	11	D	P		HOLD SAFETY MEETING WITH HALLIBURTON LOGGERS. RIG UP LOGGERS. PICK UP TRIPLE COMBO TOOLS AND RUN IN HOLE.
3/30/2012	0:00 - 2:30	2.50	EVALPR	11	D	P		HOLD SAFETY MEETING WITH HALLIBURTON LOGGERS. RIG UP LOGGERS. PICK UP TRIPLE COMBO TOOLS AND RUN IN HOLE. LOGGS BRIDGED OUT @ 5034' NO LOGGS
	2:30 - 4:30	2.00	DRLPRO	21	E	Z		WAITED FOR CASING CREW COMMING OFF ANOTHER JOB.
	4:30 - 8:30	4.00	CSG	12	C	P		MAKE UP 4.5" L-80 LTC AUTO FILL FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" L-80 AUTO FILL FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JTS AND EVERY THIRD JT FOR TOTAL OF 15 JTS. AUTO FILL FLOAT STOPPED FILLING @ 3500'. INSTALL ROTATING HEAD @ 1800'. RUN A TOTAL OF 86 JTS OF 4.5" 11.6# I-80 LTC CASING (3608'). MAKE UP DQX CROSS OVER JT AND RIG UP TORQUE TURN. PERFORM DUMP TEST.
	8:30 - 9:30	1.00	CSG	21		Z		THE CABLE FOR THE COMPUTER(TO RUN TORQUE TURN ON THE DQX CASING) WAS FAULTY AND NEEDED REPLACED. WAIT ON THE COMPUTER CABLES TO RUN TORQUE TURN ON THE DQX CASING.

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 12/8/2011

End Date: 3/30/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:30 - 13:30	4.00	CSG			P		<p>RUN A TOTAL 118 JTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN (4925'). ( TSI WITNESSING CSG JOB).</p> <p>RAN CASING TO BOTTOM. LAYED DOWN 2 JTS OF DQX WITH BAD BOX AND PIN.</p> <p>WASHED DOWN LAST JT OF CSG FROM 8566'-8609'.</p> <p>TOTAL 86 JOINTS OF 4.5" 11.6# I-80 LTC (3608')</p> <p>TOTAL 118 JOINTS OF 4.5" 11.6# I-80 DQX CSG (4925')</p> <p>TOTAL 206 JOINTS INCLUDING MARKER AND, CROSS OVER.</p> <p>SET FLOAT SHOE @ 8609.20' KB</p> <p>SET TOP OF FLOAT COLLAR @ 8564.09' KB.</p> <p>SET TOP OF MESA MARKER JOINT @ 8225.19' KB.</p> <p>SET TOP DQX TO LTC CROSS OVER JOINT @ 4940.96' KB.</p>
	13:30 - 14:30	1.00	CSG	05	D	P		<p>CIRCULATE BOTTOMS UP. MUD WT 11.6 VIS 39. NO FLARE ON BOTTOMS UP. NO LOSSES WHILE CIRCULATING. ( BAKER HUGHES BULK TRUCK T ON LOCATION WITH LEAD CEMENT @ 14:30 ) RIG DOWN KIMZEY CASING.</p>
	14:30 - 19:00	4.50	CSG	12	E	P		<p>RIG UP CEMENT HEAD WITH TOP PLUG INSTALLED. PRESSURE TEST LINES TO 5000 PSI.</p> <p>PUMP 25 BBLS OF FRESH WATER.</p> <p>PUMP 157 BBLS (390 SX) OF 12.0# 2.26 YIELD 12.48 GAL/SK OF LEAD CEMENT. PUMP 219 BBLS (940 SX) OF 14.3# 1.31 YIELD 5.90 GAL/SK POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG.</p> <p>DISPLACE WITH 133 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. RETURNED WITH 30 BBLS CEMENT TO SURFACE.</p> <p>LIFT PRESSURE OF 1915 @ 3 BBLS MINUTE.</p> <p>BUMP PLUG 2687 PSI. . PRESSURE HELD 5 MINUTES. FLOAT HELD.</p> <p>FLOW BACK 1.5 BBLS.</p> <p>ESTIMATED TOP OF CEMENT FOR LEAD 15'. ESTIMATED TOP OF CEMENT FOR TAIL 3700". RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER.</p>
	19:00 - 20:00	1.00	RDMO	14	A	P		<p>STORED 790 BBLS OF 11.5# MUD IN UPRIGHTS. RIG DOWN FLOW LINE. NIPPLE DOWN BOPE. NIPPLE DOWN CHOKE LINE. P/U STACK AND SET C-22 SLIPS AT 100K. CUT OFF CASING. CLEANED PITS WHILE LOGGING. TRANSFER 300 BBLS OF DRILL WATER INTO TANKS AND RUN CENTRIFUGES TO REMOVE SOLIDS. RELEASE RIG 3/30/2012 20:00.</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6O2DS (YELLOW)	Wellbore No.	OH
Well Name	BONANZA 1023-6O2DS	Wellbore Name	BONANZA 1023-6O2DS
Report No.	1	Report Date	7/18/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-6O PAD
Rig Name/No.		Event	COMPLETION
Start Date	7/18/2012	End Date	9/4/2012
Spud Date	2/10/2012	Active Datum	RKB @5,280.00usft (above Mean Sea Level)
UWI	SW/SE/O/10/S/23/E/6/O/0/26/PM/S/208/E/O/2079/O/O		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	6,113.0 (usft)-8,463.0 (usft)	Start Date/Time	7/19/2012 12:00AM
No. of Intervals	41	End Date/Time	7/19/2012 12:00AM
Total Shots	192	Net Perforation Interval	50.00 (usft)
Avg Shot Density	3.84 (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	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
7/19/2012 12:00AM	WASATCH/			6,113.0	6,114.0	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 /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
7/19/2012 12:00AM	WASATCH/			6,192.0	6,193.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	WASATCH/			6,210.0	6,211.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	WASATCH/			6,244.0	6,245.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	WASATCH/			6,336.0	6,338.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			6,951.0	6,952.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,002.0	7,004.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,049.0	7,052.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,106.0	7,107.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,176.0	7,177.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,269.0	7,271.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,302.0	7,304.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,369.0	7,370.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,406.0	7,407.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,441.0	7,442.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,524.0	7,526.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,552.0	7,553.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,629.0	7,630.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,645.0	7,646.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,685.0	7,686.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,709.0	7,710.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,737.0	7,738.0	3.00		0.360	EXP/	3.375	120.00		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 /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
7/19/2012 12:00AM	MESAVERDE/			7,759.0	7,760.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,815.0	7,816.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,833.0	7,834.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,878.0	7,879.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,899.0	7,900.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			7,977.0	7,978.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,004.0	8,005.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,041.0	8,042.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,073.0	8,074.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,129.0	8,130.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,180.0	8,181.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,189.0	8,190.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,204.0	8,205.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,222.0	8,223.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,262.0	8,263.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,324.0	8,325.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,352.0	8,353.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,382.0	8,384.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
7/19/2012 12:00AM	MESAVERDE/			8,461.0	8,463.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

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

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 7/18/2012

End Date: 9/4/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/10/2012	-							
7/18/2012	12:30 - 14:00	1.50	COMP	33	C	P		HSM. FILL SURFACE AND CSG W/ TMAC. RU B&C. PRES TEST CSG AND VALVES.  BEGIN                      END              LOST 1115# FOR 15 MIN 1100#              -15# 3600# FOR 15 MIN 3570#              -30# 7100# FOR 30 MIN 7007#              -93# GOOD TEST. NO COMMUNICATION.
7/19/2012	7:00 - 13:00	6.00	COMP	37	B	P		BLEED OFF. RD B&C. HSM. MIRU CASED HOLE. RIH W/ 3-1/8" EXP PERF GUN (23 GR, 40" PENT, .36" EOD) AND 8324'-8463' (24 HOLES) AS PER PROCEEDURE. SWMFWE.

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

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 7/18/2012

End Date: 9/4/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/23/2012	10:20 - 18:00	7.67	COMP	36	B	P		<p>FRAC STG 1)WHP 1500 PSI, BRK 3084 PSI @ 4.8 BPM. ISIP 1848 PSI, FG .66.            CALC PERFS OPEN @ 51.1 BPM @ 4109 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)            ISIP 2372 PSI, FG .72, NPI 524 PSI.            MP 6094 PSI, MR 51.1 BPM, AP 4719 PSI, AR 50.9 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8293' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1990 PSI, BRK 2827 PSI @ 4.7 BPM. ISIP 2067 PSI, FG .67.            CALC PERFS OPEN @ 50.9 BPM @ 4380 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)            ISIP 2320 PSI, FG .70, NPI 253 PSI.            MP 4815 PSI, MR 51.1 BPM, AP 4360 PSI, AR 50.8 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8104' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 1980 PSI, BRK 2878 PSI @ 4.4 BPM. ISIP 2182 PSI, FG .71.            CALC PERFS OPEN @ 50.8 BPM @ 4438 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)            ISIP 2544 PSI, FG .76, NPI 362 PSI.            MP 5184 PSI, MR 51 BPM, AP 4568 PSI, AR 50.8 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7864' P/U PERF AS PER DESIGN. POOH, SWMFN.</p>

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

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 7/18/2012

End Date: 9/4/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/24/2012	7:30 - 18:00	10.50	COMP	36	E	P		<p>FRAC STG 4) WHP 1715 PSI, BRK 2805 PSI @ 4.6 BPM. ISIP 1920 PSI, FG .69.            CALC PERFS OPEN @ 49 BPM @ 4160 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)            ISIP 1913 PSI, FG .69, NPI - 7 PSI.            MP 4838 PSI, MR 51.1 BPM, AP 2415 PSI, AR 50.5 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7583' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 204 PSI, BRK 2376 PSI @ 4.6 BPM. ISIP 1505 PSI, FG .64.            CALC PERFS OPEN @ 51 BPM @ 3381 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)            ISIP 1838 PSI, FG .69, NPI 330 PSI.            MP 4745 PSI, MR 57.1 BPM, AP 4077 PSI, AR 55.8 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7334' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6)WHP 1200 PSI, BRK 2284 PSI @ 3.9 BPM. ISIP 1365 PSI, FG .63.            CALC PERFS OPEN @ 51.1 BPM @ 3880 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN)            ISIP 2166 PSI, FG .74, NPI 801 PSI.            MP 4119 PSI, MR 51.3 BPM, AP 3682 PSI, AR 51.1 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7082' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 1460 PSI, BRK 1923 PSI @ 4.1 BPM. ISIP 1549 PSI, FG .66.            CALC PERFS OPEN @ 50.9 BPM @ 4040 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN)            ISIP 2313 PSI, FG .77, NPI 764 PSI.            MP 4301 PSI, MR 51.2 BPM, AP 4818 PSI, AR 50.9 BPM,            PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR</p>

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6O2DS (YELLOW)		Spud Date: 2/10/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-6O PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/18/2012	End Date: 9/4/2012
Active Datum: RKB @5,280.00usft (above Mean Sea Level)		UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								WL
								PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6368' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								FRAC STG 8)WHP 135 PSI, BRK 1990 PSI @ 4.4 BPM. ISIP 953 PSI, FG .59. CALC PERFS OPEN @ 51.1 BPM @ 3642 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 1925 PSI, FG .75, NPI 972 PSI. MP 4121 PSI, MR 51.3 BPM, AP 3432 PSI, AR 51.1 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								KILL PLUG ) RIH W/ HAL 8K CBP, SET CBP @ 6063', SWI, R/D WIRELINWAND FRAC,
								TOTAL WATER = 8,460 BBL TOTAL SAND = 193,927 LBS MIRU. NDWH. NUBOP. P/U & RIH W/ 3-7/8" BIT+XN+POBS+82JTS 2-3/8" L-80 TBNG. LEAVE EOT @ 2618'. SWIFN. SAFETY = JSA.
8/31/2012	12:00 - 16:00	4.00	DRLOUT	31		P		
9/4/2012	7:00 - 7:15	0.25	DRLOUT	48		P		

**US ROCKIES REGION  
Operation Summary Report**

Well: BONANZA 1023-6O2DS (YELLOW)

Spud Date: 2/10/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6O PAD

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 7/18/2012

End Date: 9/4/2012

Active Datum: RKB @5,280.00usft (above Mean Sea Level)

UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	DRLOUT	31		P		<p>0 PSI ON WELL. FINISH RIH W/ TBNG + XN+POBS+3-7/8" BIT. T/U ON FIRST CBP @6063'. LOAD THE HOLE W/ TMAC. PRESSURE TEST BOP'S GOOD @3000#. BREAK CIRC &amp; D/O 8 CBP'S AS FOLLOWS:</p> <p>CBP #1) DRLG OUT BAKER 8K CBP @ 6063' IN 11 MIN. 0 LBS DIFF. PSI. RIH, TAG SND @ 6340'. C/O 28' OF SND. FCP = 0 PSI.</p> <p>CBP #2) DRLG OUT BAKER 8K CBP @ 6368' IN 10 MIN. 500 LBS DIFF. PSI. RIH, TAG SND @ 7060'. C/O 22' OF SND. FCP = 25 PSI.</p> <p>CBP #3) DRLG OUT BAKER 8K CBP @ 7082' IN 10 MIN. 0 LBS DIFF. PSI. RIH, TAG SND @ 7315'. C/O 19' OF SND. FCP = 350 PSI.</p> <p>CBP #4) DRLG OUT BAKER 8K CBP @ 7334' IN 5 MIN. 0 LBS DIFF. PSI. RIH, TAG SND @ 7553'. C/O 30' OF SND. FCP = 300 PSI.</p> <p>CBP #5) DRLG OUT BAKER 8K CBP @ 7583' IN 7 MIN. 0 LBS DIFF. PSI. RIH, TAG SND @ 7850'. C/O 14' OF SND. FCP = 350 PSI.</p> <p>CBP #6) DRLG OUT BAKER 8K CBP @ 7864' IN 7 MIN. 600 LBS DIFF. PSI. RIH, TAG SND @ 8079'. C/O 25' OF SND. FCP = 500 PSI.</p> <p>CBP #7) DRLG OUT BAKER 8K CBP @ 8104' IN 7 MIN. 500 LBS DIFF. PSI. RIH, TAG SND @ 8263'. C/O 30' OF SND. FCP = 400 PSI.</p> <p>CBP #8) DRLG OUT BAKER 8K CBP @ 8293' IN 7 MIN. 500 LBS DIFF. PSI. RIH, TAG SND @ 8525'. C/O 39' OF SND TO PBTD @8564' W/ 270 JTS 2-3/8" L-80 TBNG + BHA. FCP = 500 PSI. CIRC WELL CLEAN. R/D POWER SWMVEL. L/D 15 JTS TBNG. LAND WELL ON HANGER AS FOLLOWS:</p> <p>KB= 15.00' HANGER= .83' 255 JTS (NEW) 2-3/8" L- 80 4.7# TBNG= 8086.30' XN= 1.33' POBS= .80' EOT @8104.26'</p>

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

Well: BONANZA 1023-6O2DS (YELLOW)		Spud Date: 2/10/2012	
Project: UTAH-UINTAH		Site: BONANZA 1023-6O PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/18/2012	End Date: 9/4/2012
Active Datum: RKB @5,280.00usft (above Mean Sea Level)		UWI: SW/SE/0/10/S/23/E/6/0/0/26/PM/S/208/E/0/2079/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:00 - 17:00	0.00	DRLOUT	50				NDBOP. NUWH. PRESSURE TEST FLOWLINES GOOD @3500#. DROP BALL & PUMP OFF BIT @1400#. TURN WELL OVER TO FLOWBACK CREW. NOTE: SICP=2100#. SITP=1600# BEFORE WELL WAS BROUGHT ON LINE. WELL TURNED TO SALES @ 1700 HR ON 9/4/2012. 3,300 MCFD, 1920 BWPD, FCP 2150#, FTP 1830#, 20/64" CK.

Project: UTAH - UTM (feet), NAD27, Zone 12N  
 Site: JINTAH\_BONANZA 1023-60 Pad  
 Well: BONANZA 1023-6O2DS  
 Wellbore: BONANZA 1023-6O2DS  
 Section:  
 SHL:  
 Design: BONANZA 1023-6O2DS  
 Latitude: 39.971294  
 Longitude: -109.366854  
 GL: 5265.00  
 KB: 4' RKB + 5265' GL @ 5269.00ft

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4202.00	4284.67	WASATCH
4802.00	4884.68	top of cylinder
6301.00	6383.71	MESAVERDE
8500.00	8582.76	SEGO

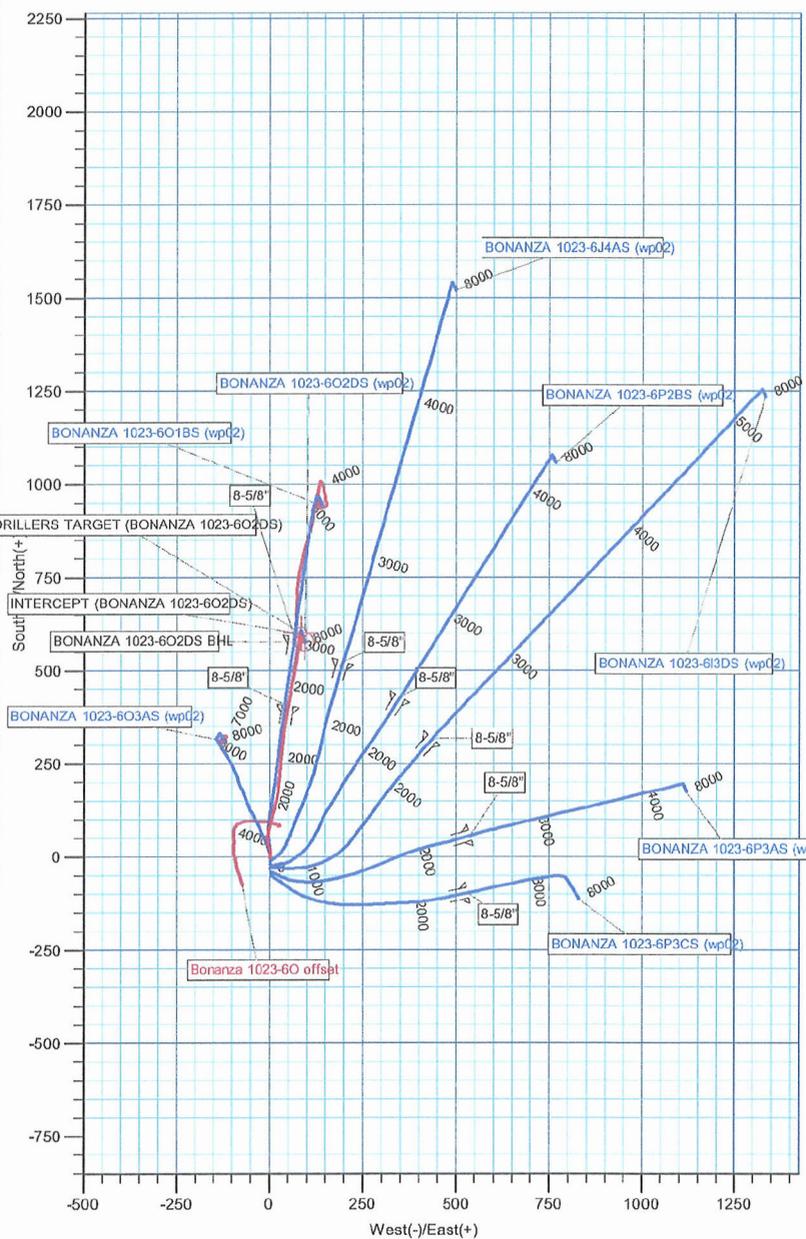
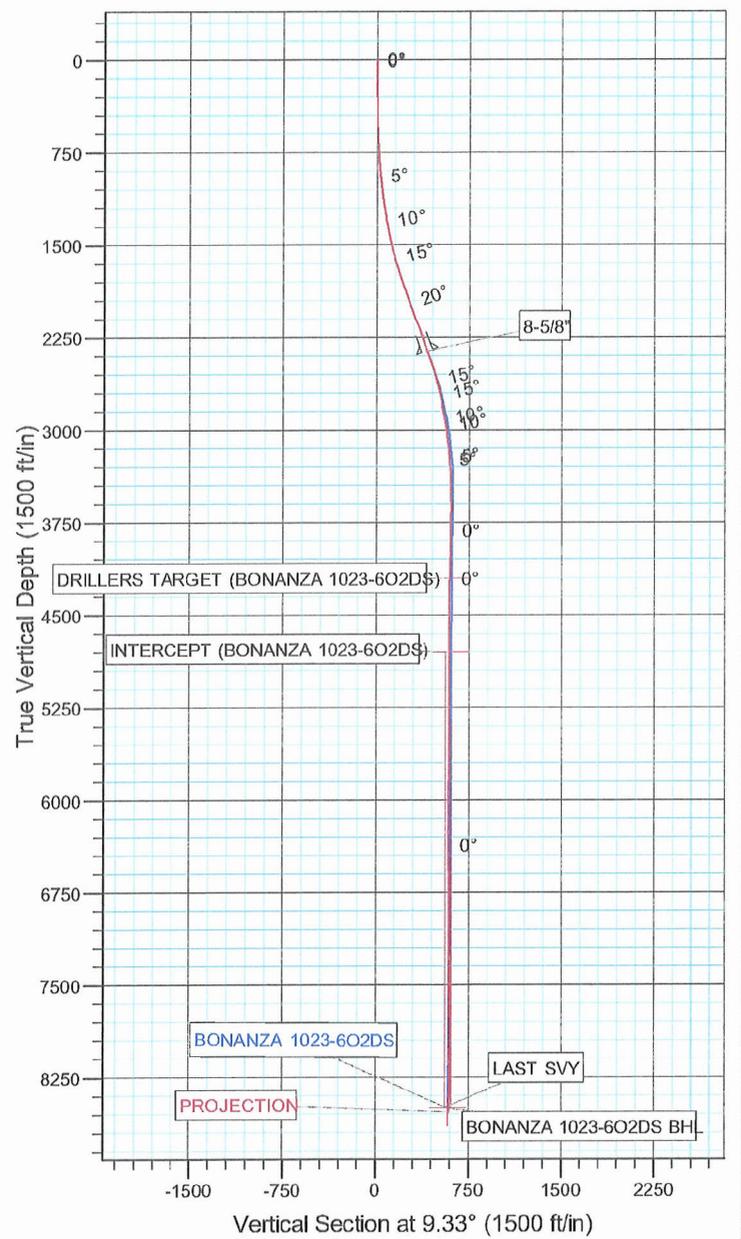
WELL DETAILS: BONANZA 1023-6O2DS						
+N/-S	+E/-W	Northing	Ground Level: Easting	5265.00 Latitude	Longitude	Slot
0.00	0.00	14519781.54	2097995.18	39.971294	-109.366854	

CASING DETAILS			
TVD	MD	Name	Size
2370.64	2428.00	8-5/8"	8-5/8

Azimuths to True North  
 Magnetic North: 10.93°  
 Magnetic Field  
 Strength: 52266.7nT  
 Dip Angle: 65.85°  
 Date: 1/31/2012  
 Model: IGRF2010

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
DRILLERS TARGET (BONANZA 1023-6O2DS)	4200.00	601.56	84.72	14520384.55	2098068.87	39.972946	-109.366552	Circle (Radius: 15.00)
INTERCEPT (BONANZA 1023-6O2DS)	4802.00	598.37	86.00	14520381.38	2098070.21	39.972937	-109.366547	Point
BONANZA 1023-6O2DS BHL	8500.00	576.56	94.72	14520359.73	2098079.33	39.972877	-109.366516	Circle (Radius: 25.00)

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
2419.00	19.89	9.39	2362.18	405.93	49.83	0.00	0.00	408.64	
2519.00	19.89	9.39	2456.21	439.50	55.38	0.00	0.00	442.66	
3537.42	0.49	175.86	3454.78	607.83	84.27	2.00	179.67	613.45	
4258.08	0.49	175.86	4175.41	601.67	84.71	0.00	0.00	607.44	
4282.67	0.00	0.00	4200.00	601.56	84.72	2.00	180.00	607.34	
4403.97	0.36	158.20	4321.30	601.20	84.86	0.30	158.20	607.01	
8582.76	0.36	158.20	8500.00	576.56	94.72	0.00	0.00	584.29	



Project: UTAH - UTM (feet), NAD27, Zone 12N  
 Site: JINTAH\_BONANZA 1023-6O Pad  
 Well: BONANZA 1023-6O2DS  
 Wellbore: BONANZA 1023-6O2DS  
 Section:  
 SHL:  
 Design: BONANZA 1023-6O2DS  
 Latitude: 39.971294  
 Longitude: -109.366854  
 GL: 5265.00  
 KB: 15' RKB + 5265' GL @ 5280.00ft

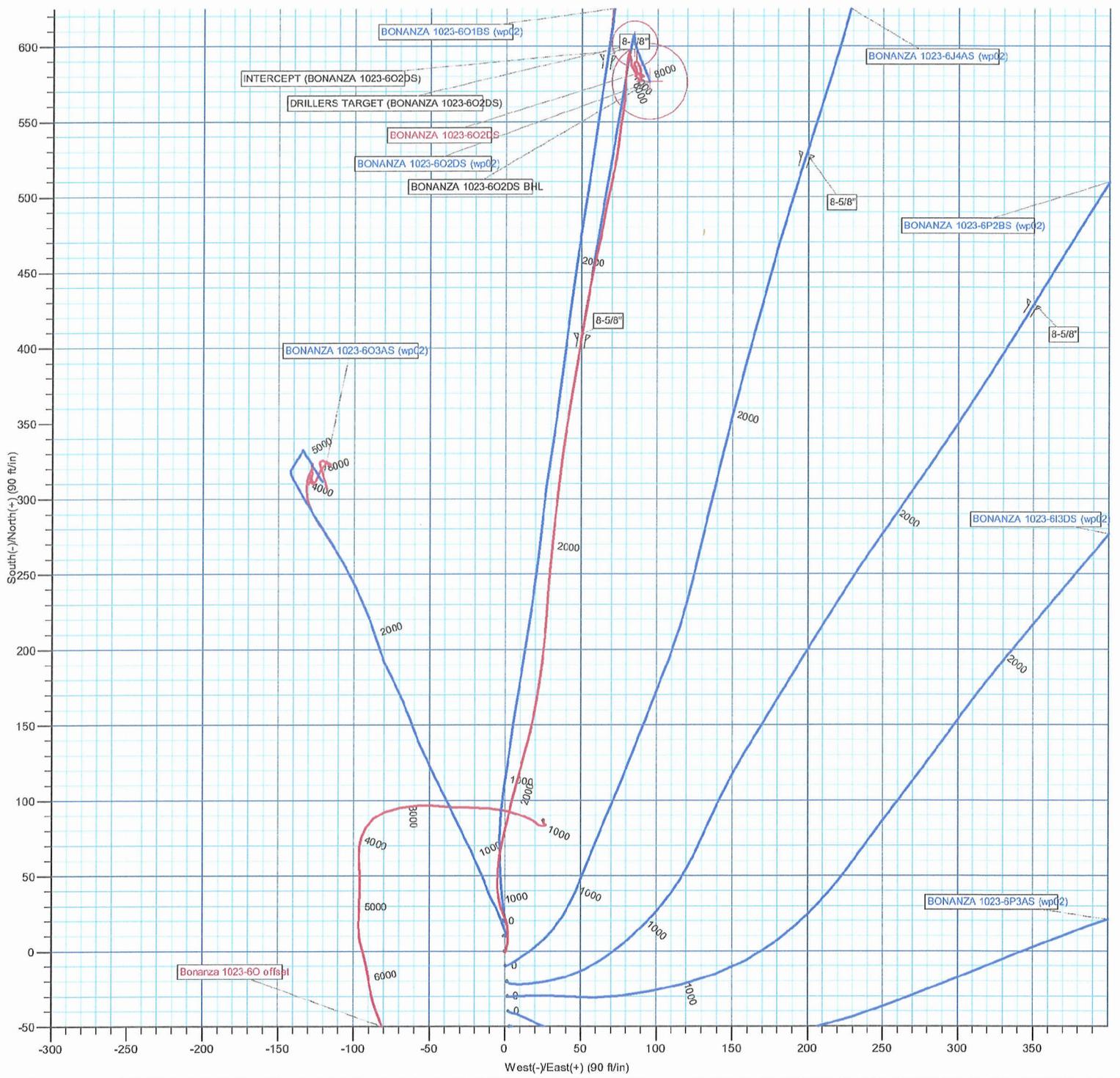
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4213.00	4295.67	WASATCH
4813.00	4895.68	top of cylinder
6312.00	6394.71	MESAVERDE
8511.00	8593.76	SEGO

WELL DETAILS: BONANZA 1023-6O2DS					
+N/-S	+E/-W	Northing	Ground Level: Easting	5265.00 Latitude	Longitude
0.00	0.00	14519781.54	2097995.18	39.971294	-109.366854
					Slot

CASING DETAILS			
TVD	MD	Name	Size
2381.64	2439.00	8-5/8"	8-5/8

Azimuths to True North  
 Magnetic North: 10.93°  
 Magnetic Field  
 Strength: 52266.7nT  
 Dip Angle: 65.85°  
 Date: 1/31/2012  
 Model: IGRF2010

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
DRILLERS TARGET (BONANZA 1023-6O2DS)	4211.00	601.56	84.72	14520384.55	2098068.87	39.972946	-109.366552	Circle (Radius: 15.00)
INTERCEPT (BONANZA 1023-6O2DS)	4813.00	598.37	86.00	14520381.38	2098070.21	39.972937	-109.366547	Point
BONANZA 1023-6O2DS BHL	8511.00	576.56	94.72	14520359.73	2098079.33	39.972877	-109.366516	Circle (Radius: 25.00)



# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b> US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b> Well BONANZA 1023-6O2DS
<b>Project:</b> UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b> 15' RKB + 5265' GL @ 5280.00ft
<b>Site:</b> UINTAH_BONANZA 1023-6O Pad	<b>MD Reference:</b> 15' RKB + 5265' GL @ 5280.00ft
<b>Well:</b> BONANZA 1023-6O2DS	<b>North Reference:</b> True
<b>Wellbore:</b> BONANZA 1023-6O2DS	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> BONANZA 1023-6O2DS	<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 1023-6O Pad				
<b>Site Position:</b>		<b>Northing:</b>	14,519,801.55 usft	<b>Latitude:</b>	39.971349
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,097,993.69 usft	<b>Longitude:</b>	-109.366858
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.05 °

<b>Well</b>	BONANZA 1023-6O2DS					
<b>Well Position</b>	<b>+N-S</b>	0.00 ft	<b>Northing:</b>	14,519,781.54 usft	<b>Latitude:</b>	39.971294
	<b>+E-W</b>	0.00 ft	<b>Easting:</b>	2,097,995.18 usft	<b>Longitude:</b>	-109.366854
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,265.00 ft

<b>Wellbore</b>	BONANZA 1023-6O2DS				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/31/2012	10.93	65.85	52,267

<b>Design</b>	BONANZA 1023-6O2DS				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	11.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>	
	11.00	0.00	0.00	9.33	

<b>Survey Program</b>	<b>Date</b>	4/2/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
181.00	2,430.00	Survey #1 (BONANZA 1023-6O2DS)	MWD	MWD - STANDARD	
2,453.00	8,620.00	Survey #2 (BONANZA 1023-6O2DS)	MWD	MWD - STANDARD	

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)
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00
181.00	0.19	146.72	181.00	-0.24	0.15	-0.21	0.11	0.11	0.00
264.00	0.92	13.07	264.00	0.30	0.38	0.36	1.28	0.88	-161.02
351.00	1.07	10.94	350.98	1.78	0.69	1.87	0.18	0.17	-2.45
441.00	1.19	17.59	440.97	3.49	1.13	3.63	0.20	0.13	7.39
531.00	1.13	15.85	530.95	5.24	1.66	5.44	0.08	-0.07	-1.93
621.00	2.31	357.60	620.91	7.90	1.83	8.09	1.43	1.31	-20.28
711.00	3.69	1.97	710.78	12.61	1.85	12.74	1.55	1.53	4.86
801.00	4.25	344.10	800.57	18.71	1.04	18.63	1.50	0.62	-19.86
891.00	4.44	335.35	890.31	25.09	-1.33	24.54	0.77	0.21	-9.72

# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	15' RKB + 5265' GL @ 5280.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6O Pad	<b>MD Reference:</b>	15' RKB + 5265' GL @ 5280.00ft
<b>Well:</b>	BONANZA 1023-6O2DS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6O2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6O2DS	<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)
981.00	5.94	346.85	979.94	32.79	-3.84	31.73	2.02	1.67	12.78
1,071.00	6.81	356.10	1,069.39	42.65	-5.27	41.23	1.49	0.97	10.28
1,161.00	7.94	5.35	1,158.64	54.16	-5.05	52.62	1.82	1.26	10.28
1,251.00	8.94	10.85	1,247.67	67.22	-3.15	65.82	1.43	1.11	6.11
1,341.00	10.94	14.22	1,336.31	82.36	0.26	81.32	2.31	2.22	3.74
1,431.00	11.94	13.10	1,424.52	99.71	4.47	99.12	1.14	1.11	-1.24
1,521.00	13.63	15.35	1,512.29	119.01	9.39	118.95	1.96	1.88	2.50
1,611.00	15.13	14.35	1,599.47	140.61	15.11	141.20	1.69	1.67	-1.11
1,701.00	17.19	9.97	1,685.91	165.09	20.32	166.20	2.66	2.29	-4.87
1,791.00	17.81	6.69	1,771.75	191.86	24.23	193.25	1.29	0.69	-3.64
1,881.00	18.69	3.97	1,857.22	219.92	26.83	221.36	1.36	0.98	-3.02
1,971.00	19.88	4.47	1,942.17	249.56	29.02	250.97	1.33	1.32	0.56
2,061.00	20.69	6.72	2,026.59	280.61	32.07	282.10	1.25	0.90	2.50
2,151.00	20.69	6.35	2,110.78	312.20	35.69	313.86	0.15	0.00	-0.41
2,241.00	19.69	8.10	2,195.25	343.01	39.59	344.89	1.30	-1.11	1.94
2,331.00	19.63	9.72	2,280.01	372.92	44.27	375.17	0.61	-0.07	1.80
2,430.00	19.89	9.39	2,373.18	405.93	49.83	408.64	0.29	0.26	-0.33
2,453.00	20.13	8.98	2,394.79	413.70	51.09	416.51	1.21	1.04	-1.78
2,533.00	18.31	10.35	2,470.33	439.66	55.49	442.84	2.34	-2.28	1.71
2,624.00	15.83	12.78	2,557.31	465.83	60.81	469.53	2.84	-2.73	2.67
2,715.00	13.06	9.58	2,645.43	488.08	65.26	492.20	3.17	-3.04	-3.52
2,806.00	12.06	13.09	2,734.25	507.48	69.13	511.97	1.38	-1.10	3.86
2,896.00	11.06	9.58	2,822.43	525.15	72.70	529.99	1.36	-1.11	-3.90
2,987.00	9.69	5.83	2,911.94	541.37	74.93	546.36	1.68	-1.51	-4.12
3,078.00	8.81	9.58	3,001.75	555.87	76.86	560.97	1.17	-0.97	4.12
3,169.00	6.63	4.83	3,091.92	567.97	78.47	573.18	2.49	-2.40	-5.22
3,259.00	5.63	0.96	3,181.41	577.56	78.98	582.73	1.20	-1.11	-4.30
3,350.00	4.38	6.33	3,272.06	585.48	79.44	590.61	1.47	-1.37	5.90
3,441.00	3.06	10.33	3,362.87	591.33	80.25	596.51	1.48	-1.45	4.40
3,531.00	1.13	12.96	3,452.80	594.55	80.88	599.80	2.15	-2.14	2.92
3,622.00	0.44	14.21	3,543.79	595.77	81.17	601.05	0.76	-0.76	1.37
3,713.00	0.19	23.59	3,634.79	596.24	81.32	601.54	0.28	-0.27	10.31
3,804.00	0.69	168.46	3,725.79	595.85	81.49	601.17	0.94	0.55	159.20
3,894.00	1.06	173.59	3,815.78	594.49	81.69	599.87	0.42	0.41	5.70
3,985.00	1.25	171.34	3,906.76	592.67	81.93	598.11	0.21	0.21	-2.47
4,076.00	1.44	171.34	3,997.74	590.56	82.25	596.08	0.21	0.21	0.00
4,167.00	1.69	174.96	4,088.70	588.09	82.54	593.69	0.30	0.27	3.98
4,257.00	1.00	143.21	4,178.68	586.14	83.13	591.86	1.10	-0.77	-35.28
4,289.08	1.06	147.34	4,210.75	585.67	83.46	591.45	0.30	0.20	12.86
<b>DRILLERS TARGET (BONANZA 1023-6O2DS)</b>									
4,348.00	1.19	153.71	4,269.66	584.66	84.02	590.54	0.30	0.22	10.82
4,439.00	1.25	160.59	4,360.64	582.87	84.77	588.91	0.17	0.07	7.56
4,530.00	0.50	60.90	4,451.63	582.13	85.45	588.28	1.56	-0.82	-109.55

# Anadarko Petroleum Corp

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-6O2DS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	15' RKB + 5265' GL @ 5280.00ft
<b>Site:</b>	UINTAH_BONANZA 1023-6O Pad	<b>MD Reference:</b>	15' RKB + 5265' GL @ 5280.00ft
<b>Well:</b>	BONANZA 1023-6O2DS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-6O2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-6O2DS	<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)
4,620.00	0.44	94.34	4,541.63	582.29	86.14	588.56	0.31	-0.07	37.16
4,711.00	0.55	112.06	4,632.63	582.10	86.89	588.49	0.21	0.12	19.47
4,802.00	0.63	119.59	4,723.62	581.69	87.73	588.22	0.12	0.09	8.27
4,891.27	0.56	125.78	4,812.88	581.20	88.51	587.86	0.11	-0.08	6.94
<b>INTERCEPT (BONANZA 1023-6O2DS)</b>									
4,892.00	0.56	125.84	4,813.62	581.19	88.52	587.85	0.11	-0.07	7.79
4,983.00	0.56	117.34	4,904.61	580.73	89.27	587.52	0.09	0.00	-9.34
5,074.00	0.75	128.96	4,995.61	580.15	90.13	587.09	0.25	0.21	12.77
5,165.00	0.38	341.71	5,086.60	580.06	90.50	587.06	1.20	-0.41	-161.81
5,256.00	0.38	310.46	5,177.60	580.54	90.18	587.48	0.22	0.00	-34.34
5,346.00	0.19	276.71	5,267.60	580.75	89.80	587.63	0.27	-0.21	-37.50
5,437.00	0.75	315.09	5,358.60	581.19	89.23	587.97	0.67	0.62	42.18
5,528.00	0.56	308.84	5,449.59	581.89	88.46	588.54	0.22	-0.21	-6.87
5,619.00	0.13	232.21	5,540.59	582.11	88.03	588.68	0.60	-0.47	-84.21
5,709.00	0.44	174.84	5,630.59	581.70	87.99	588.27	0.43	0.34	-63.74
5,800.00	0.50	148.96	5,721.59	581.01	88.22	587.63	0.24	0.07	-28.44
5,891.00	1.13	158.59	5,812.58	579.84	88.75	586.56	0.71	0.69	10.58
5,982.00	1.00	178.71	5,903.56	578.21	89.10	585.01	0.43	-0.14	22.11
6,073.00	0.63	243.96	5,994.55	577.20	88.67	583.94	1.02	-0.41	71.70
6,163.00	0.75	314.96	6,084.55	577.40	87.81	583.99	0.90	0.13	78.89
6,254.00	0.44	333.21	6,175.54	578.13	87.23	584.62	0.40	-0.34	20.05
6,345.00	0.27	333.90	6,266.54	578.63	86.98	585.08	0.19	-0.19	0.76
6,436.00	0.06	288.58	6,357.54	578.84	86.84	585.26	0.25	-0.23	-49.80
6,527.00	0.25	219.71	6,448.54	578.70	86.66	585.10	0.26	0.21	-75.68
6,617.00	0.88	339.71	6,538.54	579.20	86.30	585.53	1.14	0.70	133.33
6,708.00	0.63	315.08	6,629.53	580.21	85.70	586.43	0.44	-0.27	-27.07
6,799.00	0.31	263.21	6,720.53	580.53	85.11	586.65	0.55	-0.35	-57.00
6,890.00	0.19	141.00	6,811.53	580.39	84.96	586.48	0.49	-0.13	-134.30
6,981.00	0.81	24.46	6,902.52	580.86	85.32	587.00	1.00	0.68	-128.07
7,072.00	0.44	48.96	6,993.52	581.67	85.85	587.89	0.49	-0.41	26.92
7,163.00	0.25	105.96	7,084.52	581.85	86.30	588.14	0.41	-0.21	62.64
7,253.00	1.00	352.83	7,174.51	582.57	86.39	588.87	1.25	0.83	-125.70
7,344.00	0.63	345.71	7,265.50	583.84	86.17	590.09	0.42	-0.41	-7.82
7,435.00	0.38	346.08	7,356.50	584.62	85.97	590.83	0.27	-0.27	0.41
7,526.00	0.31	295.71	7,447.50	585.02	85.68	591.17	0.33	-0.08	-55.35
7,617.00	1.25	336.58	7,538.49	586.04	85.06	592.08	1.14	1.03	44.91
7,707.00	1.00	349.59	7,628.47	587.71	84.53	593.64	0.40	-0.28	14.46
7,798.00	0.56	10.59	7,719.46	588.93	84.47	594.83	0.57	-0.48	23.08
7,889.00	0.38	29.59	7,810.46	589.63	84.70	595.56	0.26	-0.20	20.88
7,979.00	0.63	93.59	7,900.46	589.86	85.34	595.89	0.64	0.28	71.11
8,070.00	0.50	118.34	7,991.45	589.64	86.19	595.81	0.30	-0.14	27.20
8,161.00	0.75	146.09	8,082.45	588.96	86.87	595.25	0.42	0.27	30.49
8,252.00	0.75	160.96	8,173.44	587.90	87.40	594.29	0.21	0.00	16.34
8,343.00	0.88	150.46	8,264.43	586.73	87.94	593.22	0.22	0.14	-11.54

# Anadarko Petroleum Corp

## Survey Report

**Company:** US ROCKIES REGION PLANNING  
**Project:** UTAH - UTM (feet), NAD27, Zone 12N  
**Site:** UINTAH\_BONANZA 1023-6O Pad  
**Well:** BONANZA 1023-6O2DS  
**Wellbore:** BONANZA 1023-6O2DS  
**Design:** BONANZA 1023-6O2DS

**Local Co-ordinate Reference:** Well BONANZA 1023-6O2DS  
**TVD Reference:** 15' RKB + 5265' GL @ 5280.00ft  
**MD Reference:** 15' RKB + 5265' GL @ 5280.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** 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)
8,433.00	0.81	161.09	8,354.42	585.52	88.48	592.12	0.19	-0.08	11.81
8,570.00	0.84	177.07	8,491.41	583.61	88.85	590.29	0.17	0.02	11.66
<b>LAST SVY - BONANZA 1023-6O2DS BHL</b>									
8,620.00	0.84	177.07	8,541.40	582.87	88.89	589.57	0.00	0.00	0.00
<b>PROJECTION</b>									

### Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,570.00	8,491.41	583.61	88.85	LAST SVY
8,620.00	8,541.40	582.87	88.89	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) 929-6304

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Various	Ponderosa Wells						UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	18421	18519				5/1/2012	
<b>Comments:</b> Move the attached wells into the Ponderosa unit. All wells are WSMVD.						11/16/2012	

**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)

JAIME SCHARNOWSKE

Name (Please Print)

*Jaime Scharnowske*

Signature

REGULATORY ANALYST

11/8/2012

Title

Date

**RECEIVED**

**NOV 08 2012**

Well Name	Quarter/Quarter	Section	Township	Range	APUI Number	County	New Entity Number	Formation
BONANZA 1023-6J2AS	NESW	6	10S	23E	4304751465	Uintah	18519	WSMVD
BONANZA 1023-6K1CS	NESW	6	10S	23E	4304751466	Uintah	18519	WSMVD
BONANZA 1023-6K2BS	NESW	6	10S	23E	4304751467	Uintah	18519	WSMVD
BONANZA 1023-6K2CS	NESW	6	10S	23E	4304751468	Uintah	18519	WSMVD
BONANZA 1023-6L2AS	NESW	6	10S	23E	4304751469	Uintah	18519	WSMVD
BONANZA 1023-6L2DS	NESW	6	10S	23E	4304751470	Uintah	18519	WSMVD
BONANZA 1023-6O1BS	SWSE	6	10S	23E	4304751473	Uintah	18519	WSMVD
BONANZA 1023-6O2DS	SWSE	6	10S	23E	4304751474	Uintah	18519	WSMVD
BONANZA 1023-6O3AS	SWSE	6	10S	23E	4304751475	Uintah	18519	WSMVD
BONANZA 1023-6P2BS	SWSE	6	10S	23E	4304751476	Uintah	18519	WSMVD
BONANZA 1023-6P3CS	SWSE	6	10S	23E	4304751478	Uintah	18519	WSMVD
BONANZA 1023-5J2DS	NESW	5	10S	23E	4304752063	Uintah	18519	WSMVD
BONANZA 1023-5K1BS	NESW	5	10S	23E	4304752064	Uintah	18519	WSMVD
BONANZA 1023-5K1CS	NESW	5	10S	23E	4304752065	Uintah	18519	WSMVD
BONANZA 1023-5K3DS	NESW	5	10S	23E	4304752066	Uintah	18519	WSMVD
BONANZA 1023-5L1DS	NESW	5	10S	23E	4304752067	Uintah	18519	WSMVD
BONANZA 1023-5L4AS	NESW	5	10S	23E	4304752068	Uintah	18519	WSMVD
BONANZA 1023-5L4DS	NESW	5	10S	23E	4304752069	Uintah	18519	WSMVD
BONANZA 1023-5O2AS	NESW	5	10S	23E	4304752070	Uintah	18519	WSMVD
BONANZA 1023-5E3BS	SWNW	5	10S	23E	4304752071	Uintah	18519	WSMVD
BONANZA 1023-5E3CS	SWNW	5	10S	23E	4304752072	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	10S	23E	4304752073	Uintah	18519	WSMVD
BONANZA 1023-5L3BS	SWNW	5	10S	23E	4304752074	Uintah	18519	WSMVD
BONANZA 1023-5M1AS	SWSW	5	10S	23E	4304752075	Uintah	18519	WSMVD
BONANZA 1023-5M1CS	SWSW	5	10S	23E	4304752076	Uintah	18519	WSMVD
BONANZA 1023-5M3BS	SWSW	5	10S	23E	4304752077	Uintah	18519	WSMVD
BONANZA 1023-5M3CS	SWSW	5	10S	23E	4304752078	Uintah	18519	WSMVD
BONANZA 1023-5N3CS	SWSW	5	10S	23E	4304752079	Uintah	18519	WSMVD
BONANZA 1023-5O4BS	SESE	5	10S	23E	4304752082	Uintah	18519	WSMVD
BONANZA 1023-5P1AS	SESE	5	10S	23E	4304752083	Uintah	18519	WSMVD
BONANZA 1023-5P1CS	SESE	5	10S	23E	4304752084	Uintah	18519	WSMVD
BONANZA 1023-5P4CS	SESE	5	10S	23E	4304752085	Uintah	18519	WSMVD
BONANZA 1023-5C4AS	NENW	5	10S	23E	4304752089	Uintah	18519	WSMVD
BONANZA 1023-5F2CS	NENW	5	10S	23E	4304752090	Uintah	18519	WSMVD
BONANZA 1023-5F3AS	NENW	5	10S	23E	4304752091	Uintah	18519	WSMVD
BONANZA 1023-5C2CS	NWNW	5	10S	23E	4304752092	Uintah	18519	WSMVD
BONANZA 1023-5D2DS	NWNW	5	10S	23E	4304752093	Uintah	18519	WSMVD
BONANZA 1023-5D3AS	NWNW	5	10S	23E	4304752094	Uintah	18519	WSMVD
BONANZA 1023-5E2AS	NWNW	5	10S	23E	4304752095	Uintah	18519	WSMVD
BONANZA 1023-6A1CS	NWNW	5	10S	23E	4304752096	Uintah	18519	WSMVD
BONANZA 1023-6I3AS	SWNW	5	10S	23E	4304752387	Uintah	18519	WSMVD
BONANZA 11-2	SWNW	11	10S	23E	4304734773	Uintah	18519	WSMVD
BONANZA 1023-6E4AS	SENE	6	10S	23E	4304751453	Uintah	18519	WSMVD
BONANZA 1023-6F1AS	SENE	6	10S	23E	4304751454	Uintah	18519	WSMVD
BONANZA 1023-6F1CS	SENE	6	10S	23E	4304751455	Uintah	18519	WSMVD
BONANZA 1023-6F4CS	SENE	6	10S	23E	4304751456	Uintah	18519	WSMVD
BONANZA 1023-6G2AS	SENE	6	10S	23E	4304751457	Uintah	18519	WSMVD
BONANZA 1023-6G4CS	SENE	6	10S	23E	4304751458	Uintah	18519	WSMVD
BONANZA 1023-6A3DS	SENE	6	10S	23E	4304751459	Uintah	18519	WSMVD
BONANZA 1023-6G1DS	SENE	6	10S	23E	4304751460	Uintah	18519	WSMVD
BONANZA 1023-6H1BS	SENE	6	10S	23E	4304751461	Uintah	18519	WSMVD
BONANZA 1023-6H2CS	SENE	6	10S	23E	4304751462	Uintah	18519	WSMVD
BONANZA 1023-6I2AS	SENE	6	10S	23E	4304751463	Uintah	18519	WSMVD
BONANZA 1023-6I3DS	SWSE	6	10S	23E	4304751471	Uintah	18519	WSMVD
BONANZA 1023-6J4AS	SWSE	6	10S	23E	4304751472	Uintah	18519	WSMVD
BONANZA 1023-6P3AS	SWSE	6	10S	23E	4304751477	Uintah	18519	WSMVD