

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

FORM 3
AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER BONANZA 1023-6F1AS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU38419		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1860 FNL 2067 FWL	SE	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1545 FNL 2377 FWL	SE	6	10.0 S	23.0 E	S
At Total Depth	1545 FNL 2377 FWL	SE	6	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1545		23. NUMBER OF ACRES IN DRILLING UNIT 516		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 158		26. PROPOSED DEPTH MD: 8516 TVD: 5476		
27. ELEVATION - GROUND LEVEL 5124		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<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

NAME Gina Becker	TITLE Regulatory Analyst II	PHONE 720 929-6086
SIGNATURE	DATE 01/03/2011	EMAIL gina.becker@anadarko.com
API NUMBER ASSIGNED 43047514540000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8516		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	0	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2050		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	0	28.0			

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

BONANZA 1023-6F1AS

Surface: 1860 FNL / 2067 FWL SENW
BHL: 1545 FNL / 2377 FWL SENW

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	1173	
Birds Nest	1439	Water
Mahogany	1803	Water
Wasatch	4200	Gas
Mesaverde	6336	Gas
MVU2	7301	Gas
MVL1	7878	Gas
TVD	8476	
MD	8516	

- 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 8,476' TVD, approximately equals 5,193 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,328 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 2,050	28.00	IJ-55	LTC	0.99	1.96	6.00
PRODUCTION	4-1/2"	0 to 8,516	11.60	I-80	BTC	2.27	1.20	3.22

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.62

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 3,328 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 5,193 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
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
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,550'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	140	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	3,696'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	270	10%	11.00	3.38
	TAIL	4,820'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	930	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.

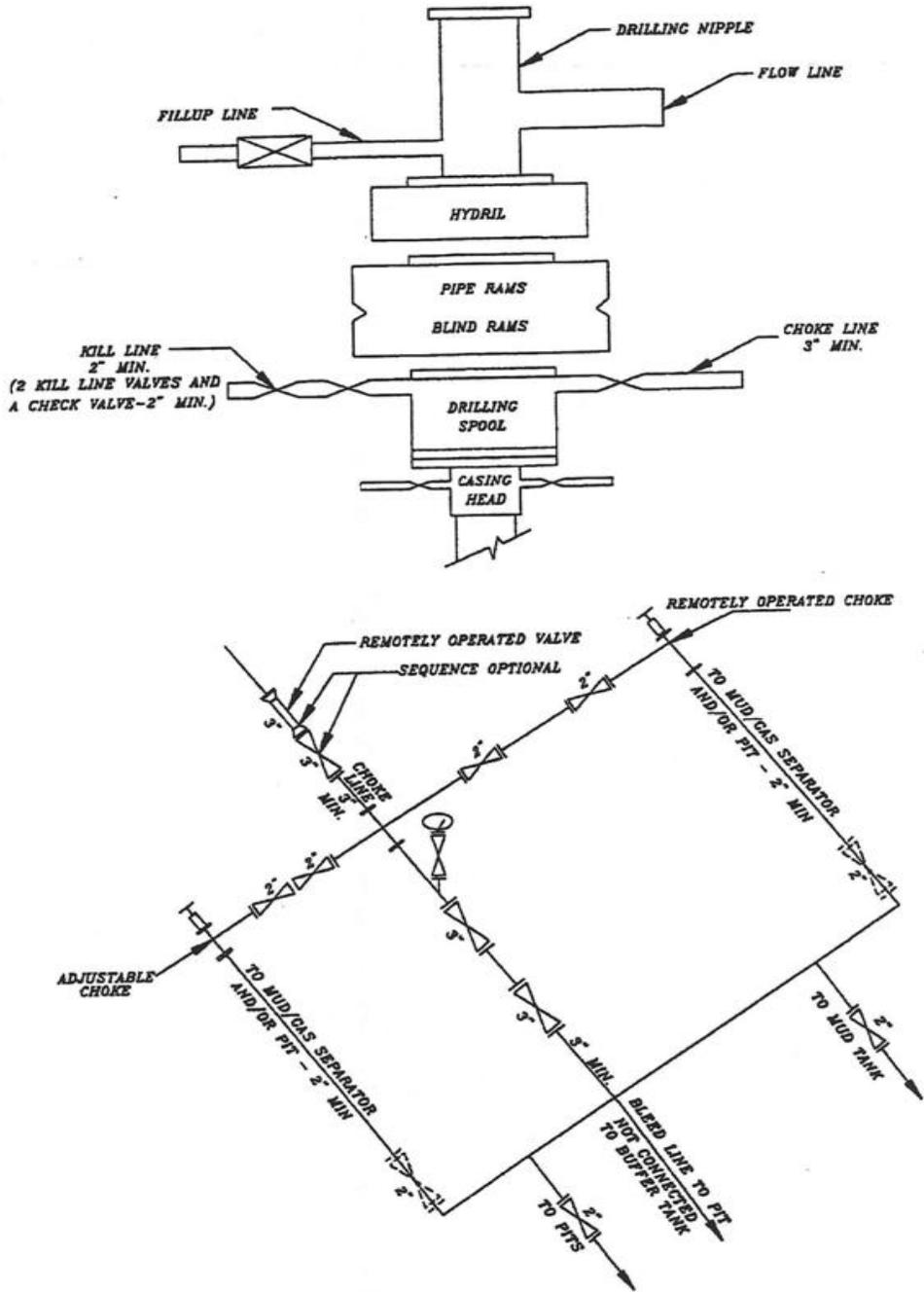
Surveys will be taken at 1,000' minimum intervals.

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

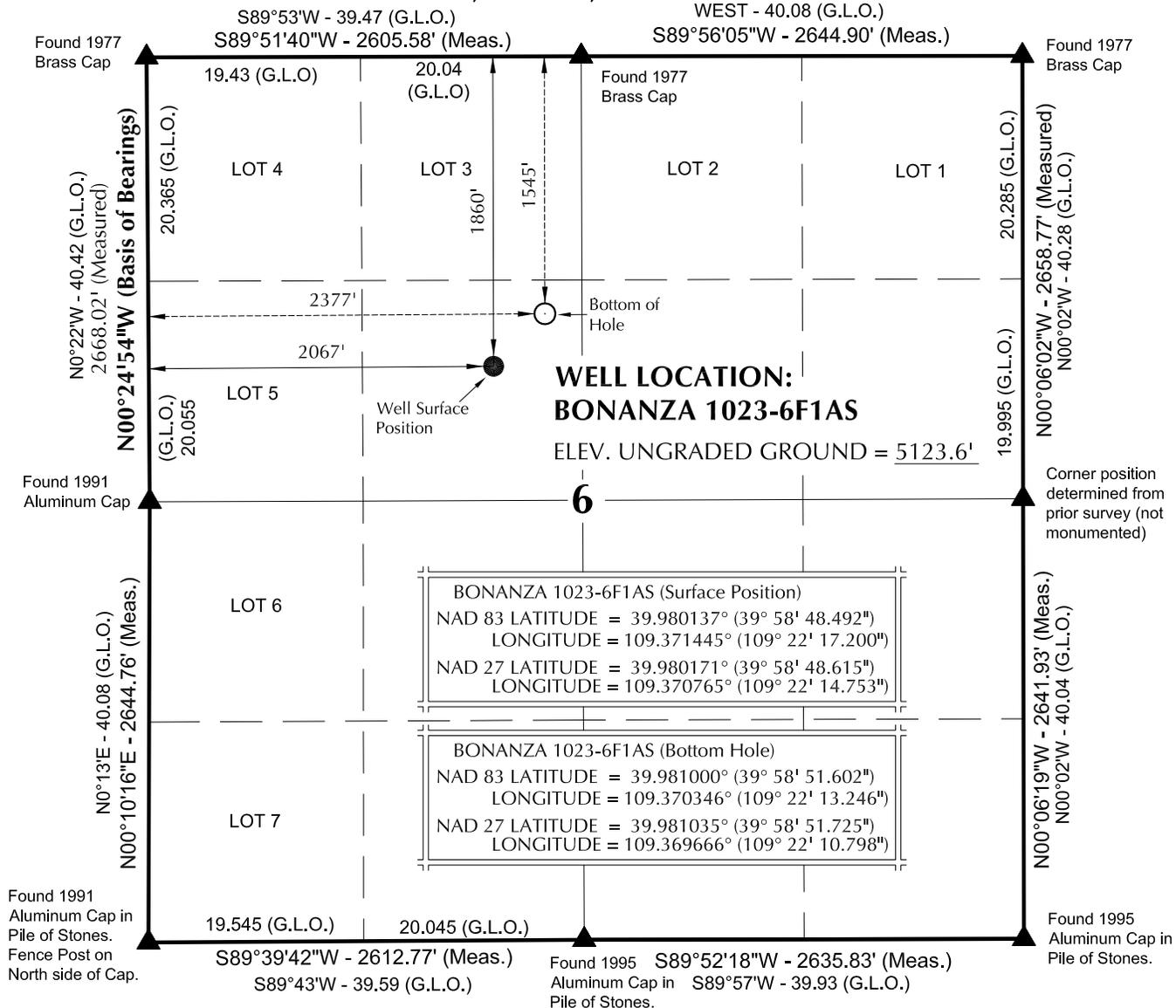
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 John Merkel / Lovel Young

EXHIBIT A BONANZA 1023-6F1AS



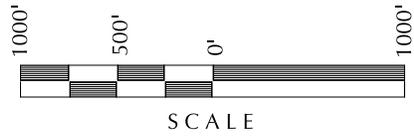
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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 N44°18'36"E 440.32' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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

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

WELL PAD: BONANZA 1023-6F

BONANZA 1023-6F1AS
WELL PLAT
 1545' FNL, 2377' FWL (Bottom Hole)
 SE ¼ NW 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

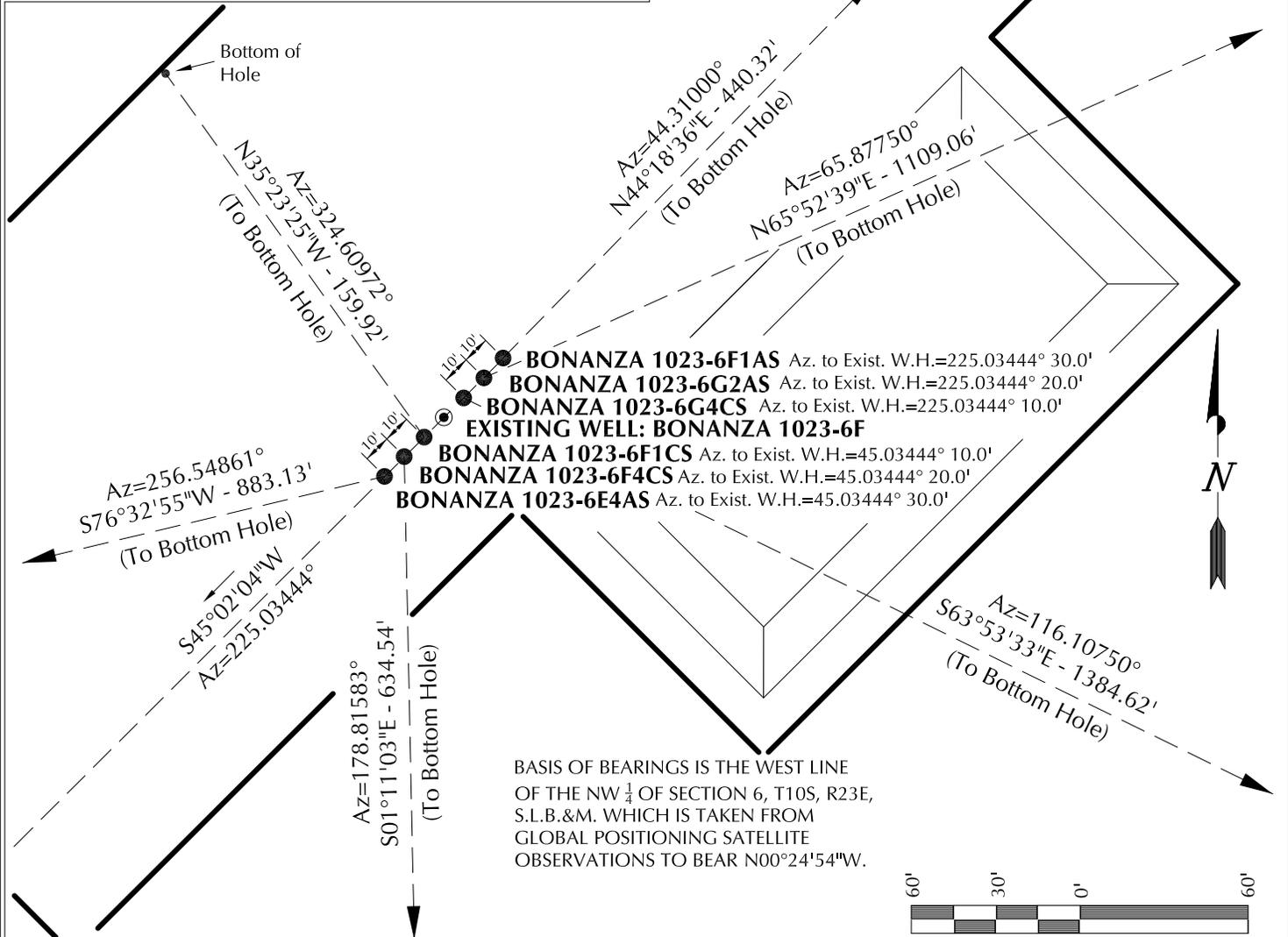
TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-04-10	SURVEYED BY: K.B.C.	SHEET NO: 6
DATE DRAWN: 03-11-10	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	6 OF 18

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6E4AS	39°58'48.073"	109°22'17.746"	39°58'48.196"	109°22'15.299"	1902' FNL 2024' FWL	39°58'46.052"	109°22'28.780"	39°58'46.175"	109°22'26.331"	2105' FNL 1164' FWL
BONANZA 1023-6F4CS	39°58'48.143"	109°22'17.656"	39°58'48.266"	109°22'15.208"	1895' FNL 2031' FWL	39°58'41.875"	109°22'17.496"	39°58'41.998"	109°22'15.048"	2529' FNL 2040' FWL
BONANZA 1023-6F1CS	39°58'48.212"	109°22'17.564"	39°58'48.335"	109°22'15.116"	1888' FNL 2039' FWL	39°58'49.501"	109°22'18.752"	39°58'49.624"	109°22'16.304"	1757' FNL 1947' FWL
BONANZA 1023-6G4CS	39°58'48.351"	109°22'17.382"	39°58'48.474"	109°22'14.935"	1874' FNL 2053' FWL	39°58'42.318"	109°22'01.423"	39°58'42.441"	109°21'58.976"	2485' FNL 1945' FEL
BONANZA 1023-6G2AS	39°58'48.422"	109°22'17.289"	39°58'48.545"	109°22'14.841"	1867' FNL 2060' FWL	39°58'52.889"	109°22'04.283"	39°58'53.013"	109°22'01.836"	1415' FNL 2167' FEL
BONANZA 1023-6F1AS	39°58'48.492"	109°22'17.200"	39°58'48.615"	109°22'14.753"	1860' FNL 2067' FWL	39°58'51.602"	109°22'13.246"	39°58'51.725"	109°22'10.798"	1545' FNL 2377' FWL
BONANZA 1023-6F	39°58'48.282"	109°22'17.473"	39°58'48.405"	109°22'15.025"	1881' FNL 2046' FWL					

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 1023-6E4AS	-205.4'	-858.9'	BONANZA 1023-6F4CS	-634.4'	13.1'	BONANZA 1023-6F1CS	130.4'	-92.6'	BONANZA 1023-6G4CS	-609.3'	1243.3'
BONANZA 1023-6G2AS	453.3'	1012.2'	BONANZA 1023-6F1AS	315.1'	307.6'						



BASIS OF BEARINGS IS THE WEST LINE OF THE NW $\frac{1}{4}$ OF SECTION 6, T10S, R23E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR $N00^{\circ}24'54''W$.

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

WELL PAD - BONANZA 1023-6F

WELL PAD INTERFERENCE PLAT
WELLS - **BONANZA 1023-6E4AS**, **BONANZA 1023-6F4CS**, **BONANZA 1023-6F1CS**, **BONANZA 1023-6G4CS**, **BONANZA 1023-6G2AS** & **BONANZA 1023-6F1AS**
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

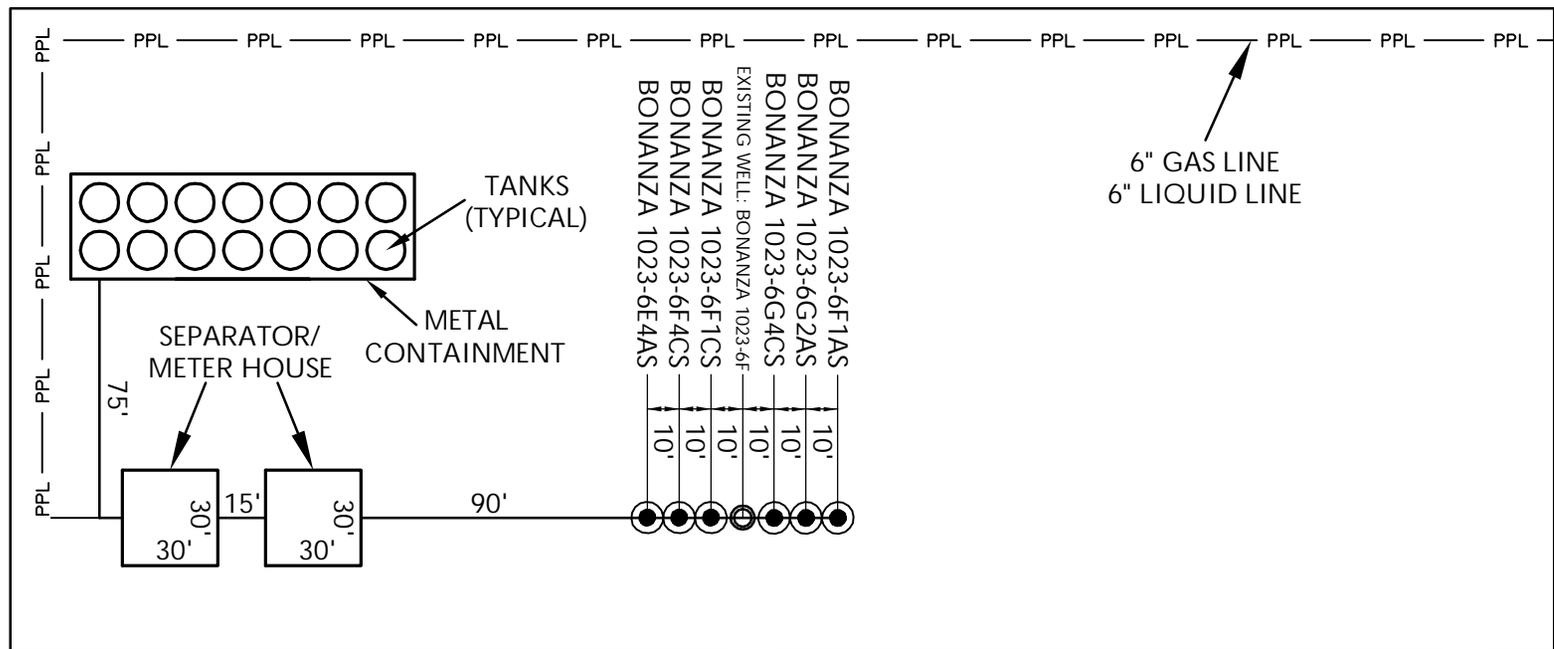
TIMBERLINE

(435) 789-1365

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

DATE SURVEYED: 03-04-10	SURVEYED BY: K.B.C.	SHEET NO: 7
DATE DRAWN: 03-11-10	DRAWN BY: M.W.W.	7 OF 18
SCALE: 1" = 60'	Date Last Revised:	

'APIWELLING: 43047514540000'



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 1023-6F

WELL PAD - FACILITIES DIAGRAM
BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
BONANZA 1023-6F1CS, BONANZA 1023-6G4CS,
BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
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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: RAW 8/6/10

SHEET NO:
10 10 OF 18

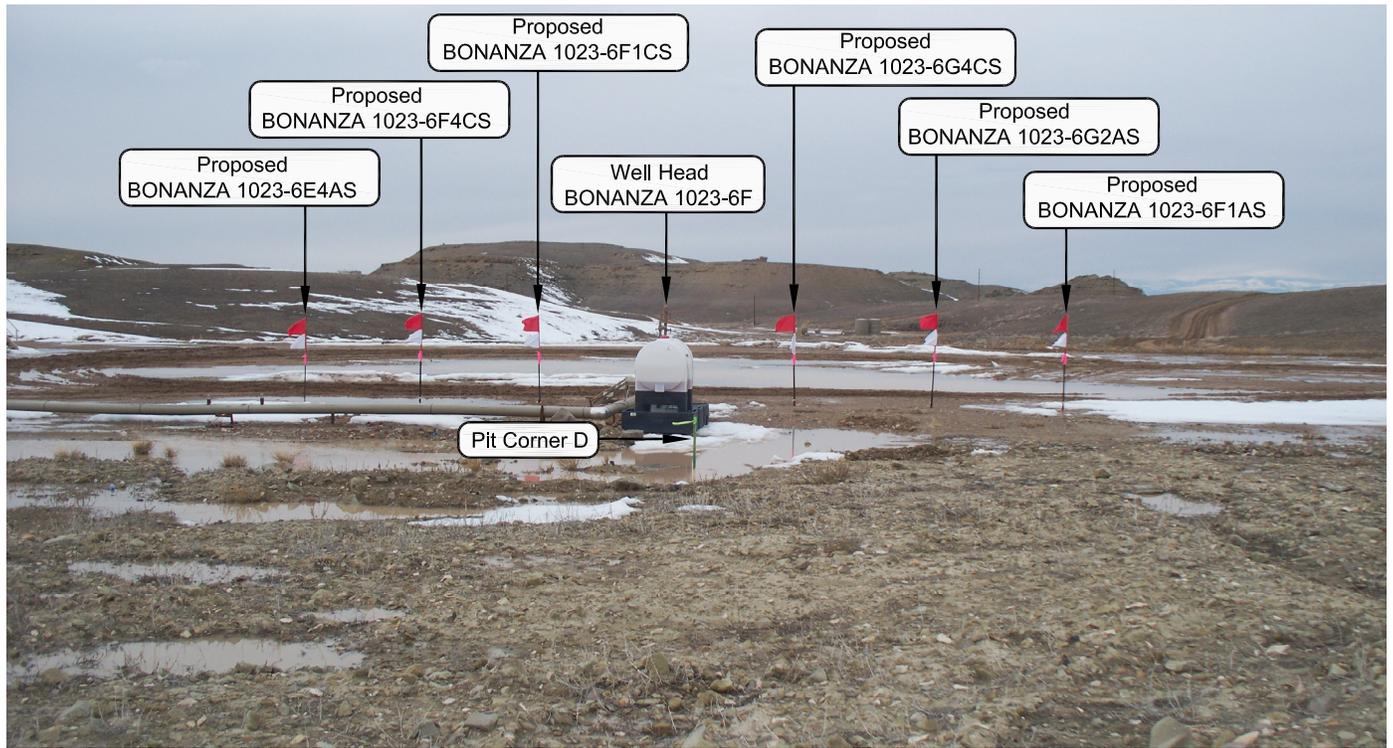


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHERLY

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

WELL PAD - BONANZA 1023-6F

LOCATION PHOTOS
 BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
 BONANZA 1023-6F1CS, BONANZA 1023-6G4CS,
 BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
 LOCATED IN SECTION 6, T10S, R23E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



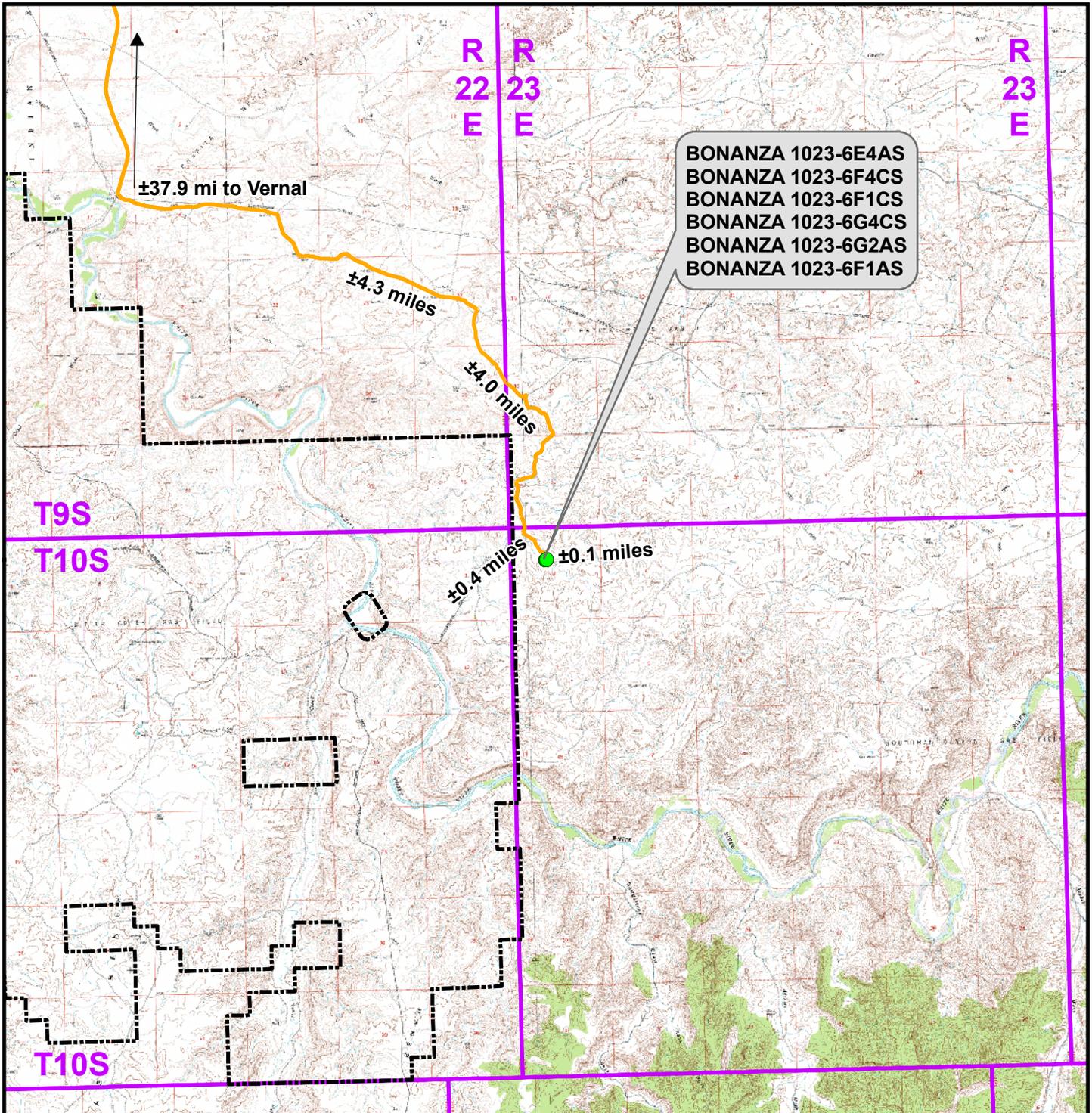
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TIMBERLINE

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 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-04-10	PHOTOS TAKEN BY: K.B.C.	SHEET NO: 11
DATE DRAWN: 03-11-10	DRAWN BY: M.W.W.	
Date Last Revised:		11 OF 18



BONANZA 1023-6E4AS
 BONANZA 1023-6F4CS
 BONANZA 1023-6F1CS
 BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS
 BONANZA 1023-6F1AS

Legend

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

Distance From Well Pad - BONANZA 1023-6F To Unit Boundary: ±2,024ft

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

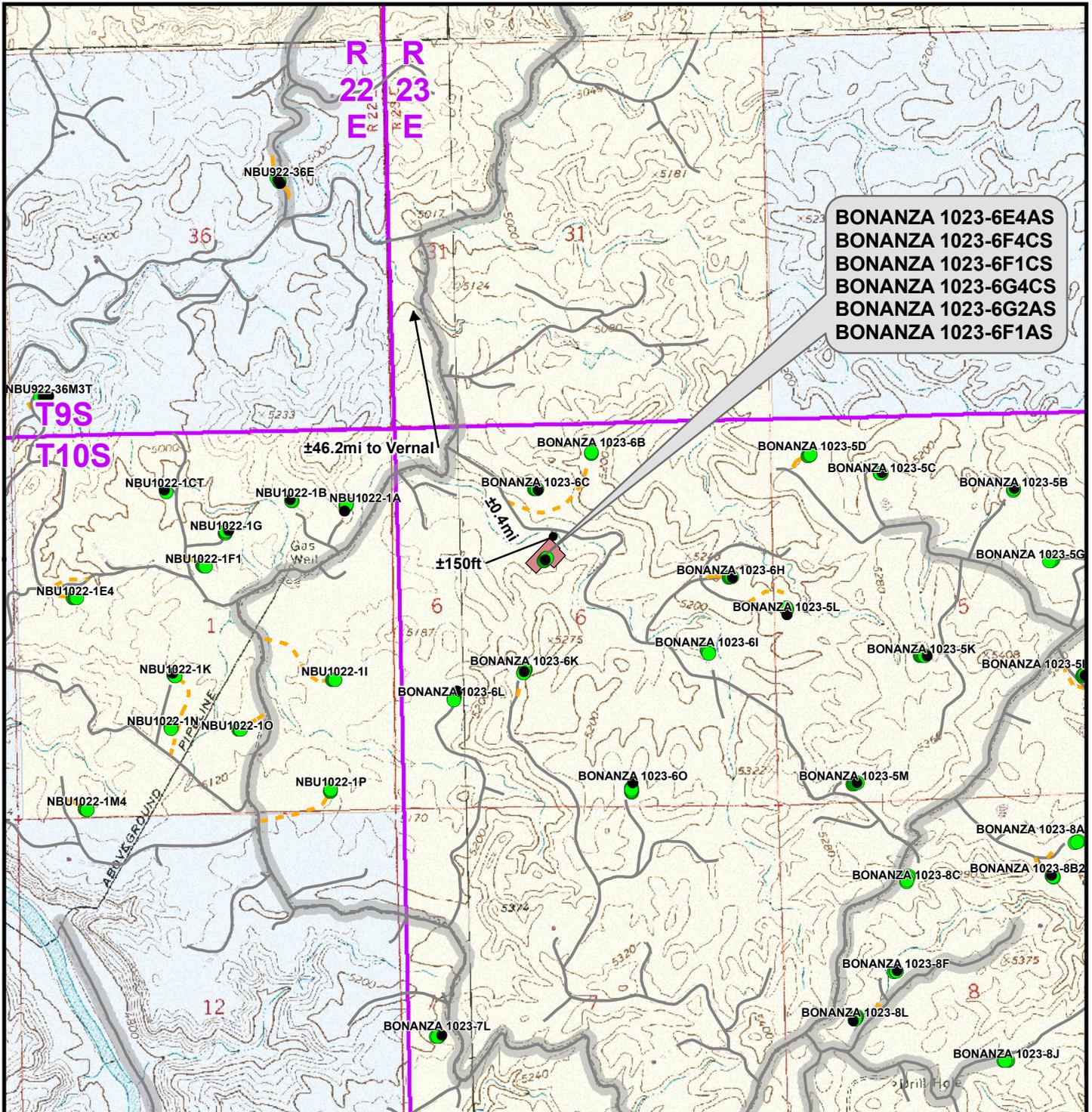
WELL PAD - BONANZA 1023-6F

TOPO A
 BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
 BONANZA 1023-6F1CS, BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 13 Apr 2010	12
Revised: JID	Date: 6 Aug 2010	



**BONANZA 1023-6E4AS
 BONANZA 1023-6F4CS
 BONANZA 1023-6F1CS
 BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS
 BONANZA 1023-6F1AS**

Legend

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

Total Proposed Road Length: ±0ft

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

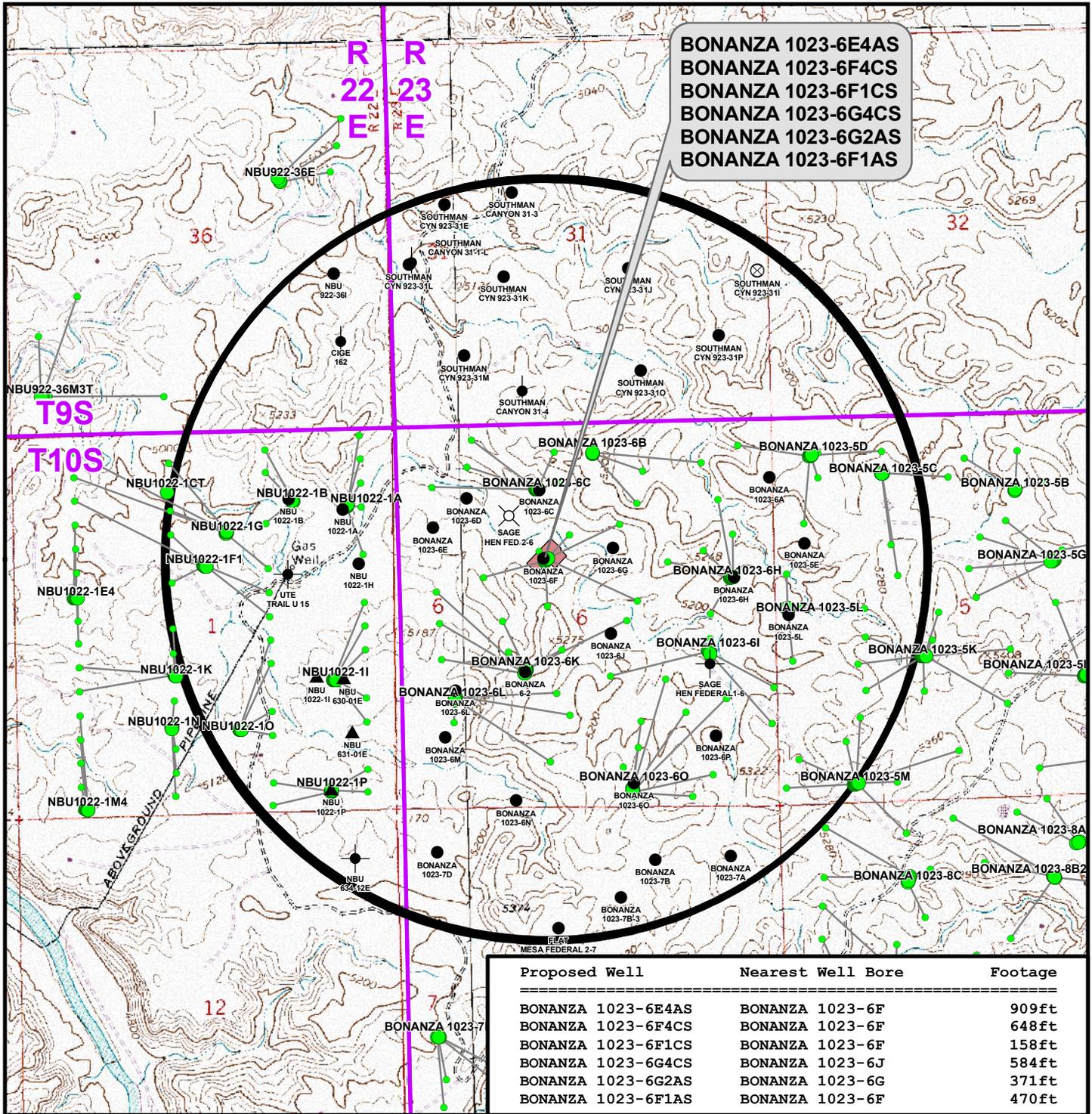
WELL PAD - BONANZA 1023-6F

TOPO B
 BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
 BONANZA 1023-6F1CS, BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UTAH COUNTY, UTAH

609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 13 Apr 2010	13
Revised: JID	Date: 6 Aug 2010	



Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-6E4AS	BONANZA 1023-6F	909ft
BONANZA 1023-6F4CS	BONANZA 1023-6F	648ft
BONANZA 1023-6F1CS	BONANZA 1023-6F	158ft
BONANZA 1023-6G4CS	BONANZA 1023-6J	584ft
BONANZA 1023-6G2AS	BONANZA 1023-6G	371ft
BONANZA 1023-6F1AS	BONANZA 1023-6F	470ft

Legend

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

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

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

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

WELL PAD - BONANZA 1023-6F

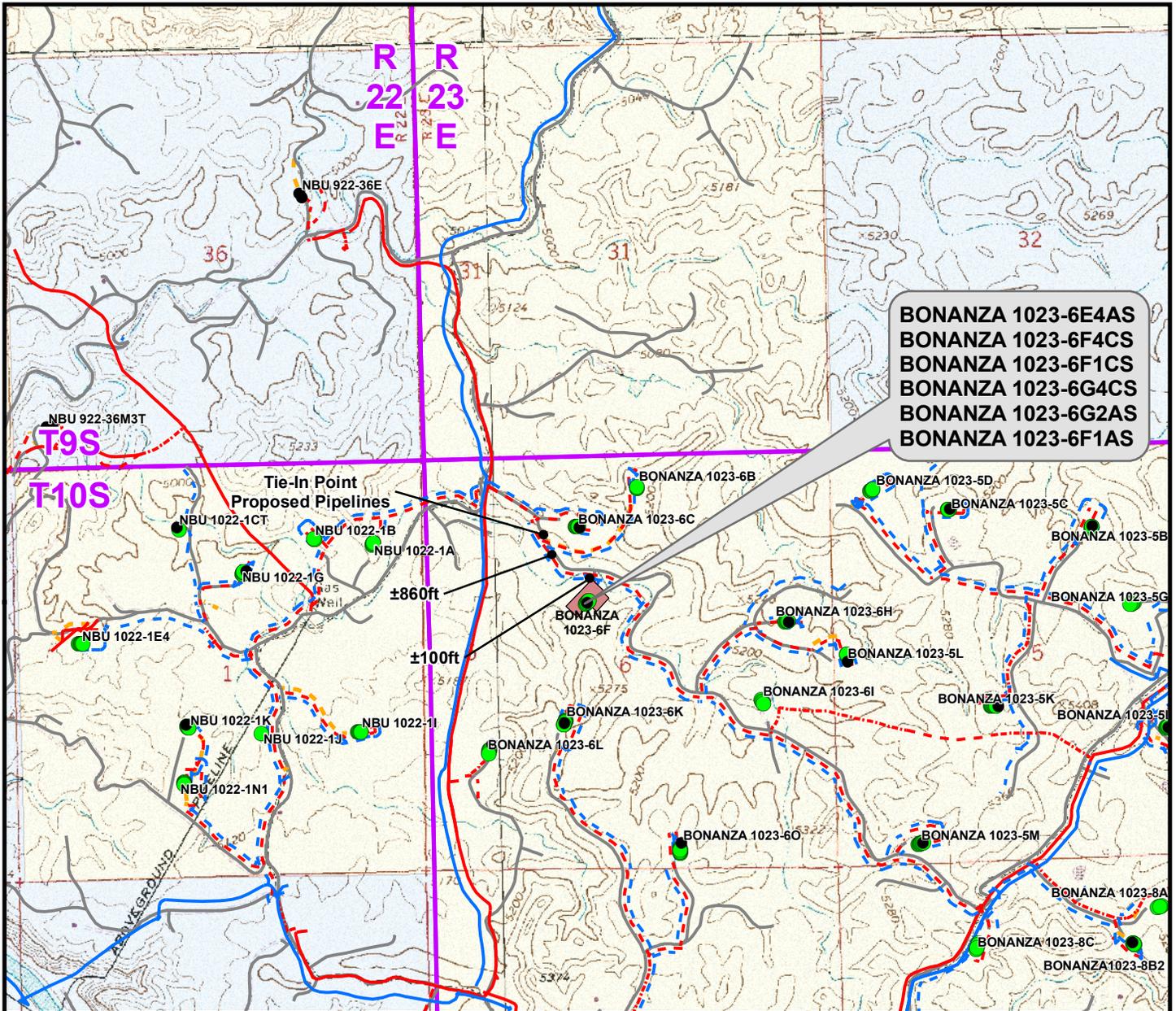
TOPO C
BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
BONANZA 1023-6F1CS, BONANZA 1023-6G4CS
BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 13 Apr 2010	14
Revised: JID	Date: 6 Aug 2010	

14 of 18



**BONANZA 1023-6E4AS
 BONANZA 1023-6F4CS
 BONANZA 1023-6F1CS
 BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS
 BONANZA 1023-6F1AS**

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±670ft	Proposed 6" (First Meter House to Edge of Pad)	±670ft
Proposed 6" (Edge of Pad to 6B Intersection)	±960ft	Proposed 6" (Edge of Pad to Proposed 16" Pipeline)	±100ft
		Proposed 16" (Proposed 16" Pipeline to 6B Intersection)	±860ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,630ft	TOTAL PROPOSED GAS PIPELINE =	±1,630ft

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

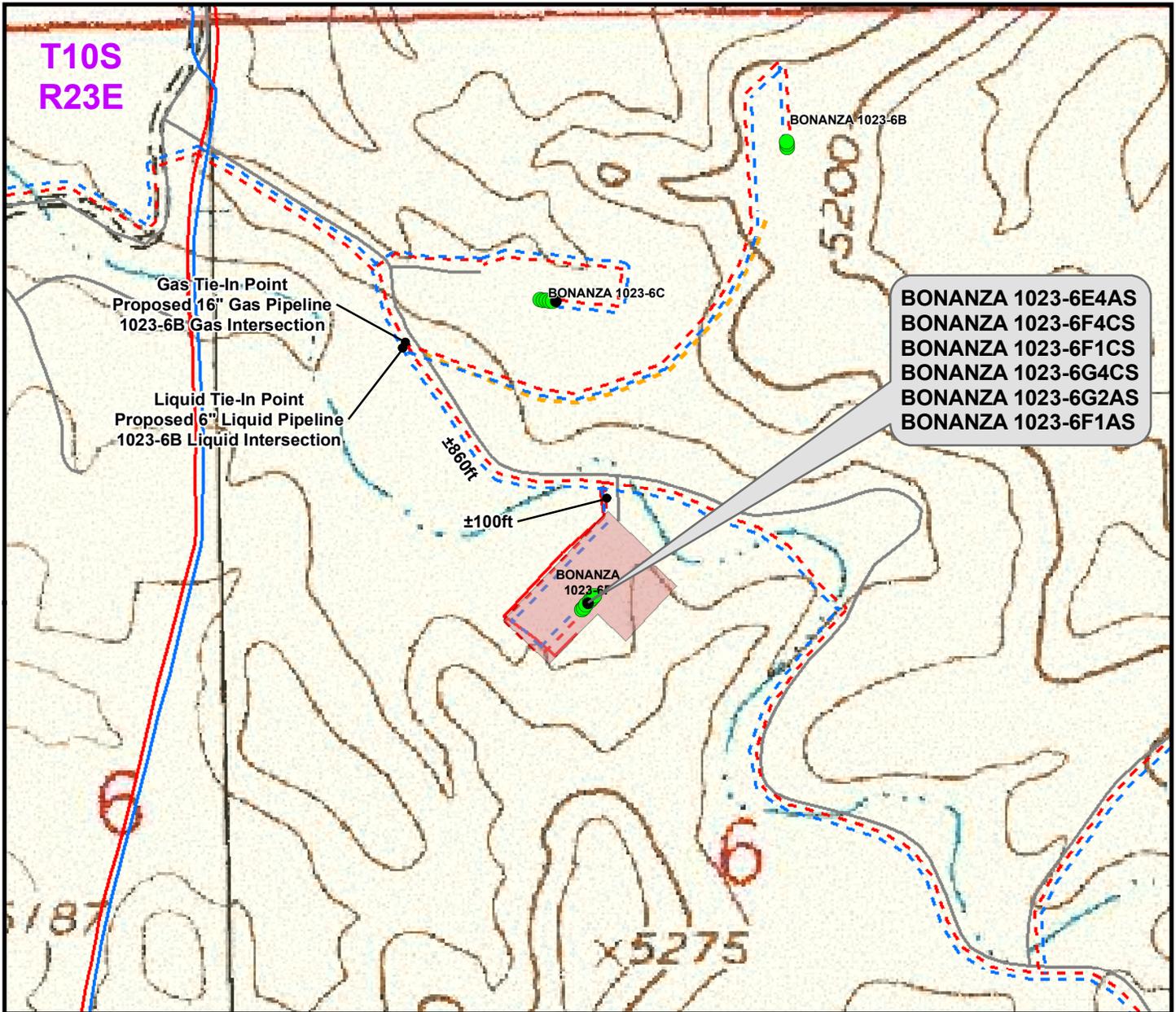
WELL PAD - BONANZA 1023-6F

TOPO D
 BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
 BONANZA 1023-6F1CS, BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

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



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



**BONANZA 1023-6E4AS
 BONANZA 1023-6F4CS
 BONANZA 1023-6F1CS
 BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS
 BONANZA 1023-6F1AS**

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±670ft	Proposed 6" (First Meter House to Edge of Pad)	±670ft
Proposed 6" (Edge of Pad to 6B Intersection)	±960ft	Proposed 6" (Edge of Pad to Proposed 16" Pipeline)	±100ft
		Proposed 16" (Proposed 16" Pipeline to 6B Intersection)	±860ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,630ft	TOTAL PROPOSED GAS PIPELINE =	±1,630ft

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

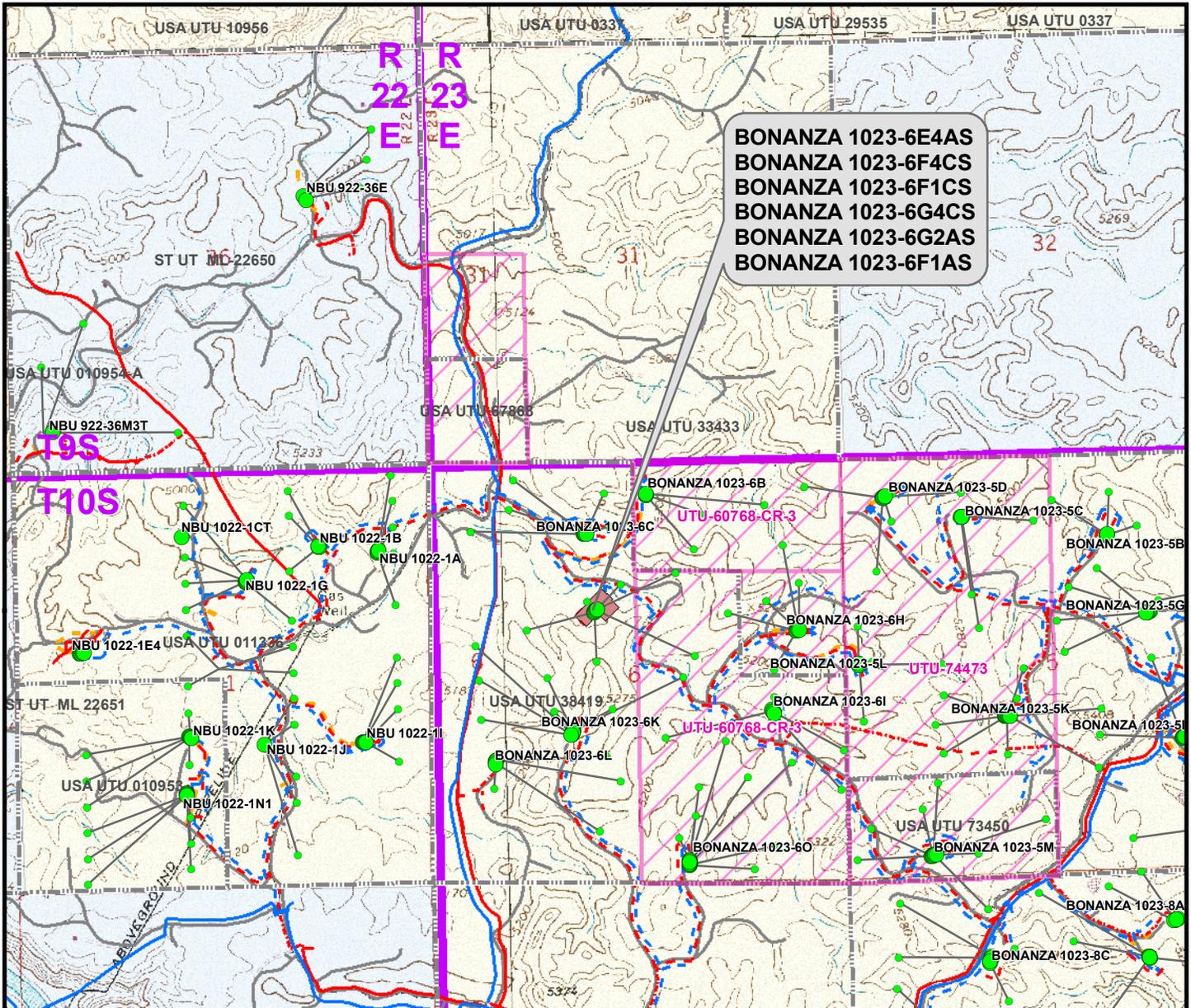
WELL PAD - BONANZA 1023-6F

TOPO D2 (PAD & PIPELINE DETAIL)
 BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
 BONANZA 1023-6F1CS, BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

609
 CONSULTING, LLC
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 Fax (307) 674-0182



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 13 Apr 2010	16
Revised: CPS	Date: 15 Oct 2010	



**BONANZA 1023-6E4AS
 BONANZA 1023-6F4CS
 BONANZA 1023-6F1CS
 BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS
 BONANZA 1023-6F1AS**

Proposed Well	Distance To Nearest CA Boundary
BONANZA 1023-6E4AS	1,433ft
BONANZA 1023-6F4CS	556ft
BONANZA 1023-6F1CS	652ft
BONANZA 1023-6G4CS	695ft
BONANZA 1023-6G2AS	475ft
BONANZA 1023-6F1AS	223ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6E4AS	1,164ft
BONANZA 1023-6F4CS	1,309ft
BONANZA 1023-6F1CS	772ft
BONANZA 1023-6G4CS	624ft
BONANZA 1023-6G2AS	73ft
BONANZA 1023-6F1AS	301ft

Legend

- Well - Proposed (Green circle)
- Bottom Hole - Proposed (Green dot)
- Well Path (Black line)
- Well Pad (Red square)
- CA Agreement (Pink square)
- 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 (Yellow dashed line)
- Road - Existing (Grey solid line)
- Bureau of Land Management (BLM) (Yellow square)
- Indian Reservation (Red square)
- State (Light blue square)
- Private (White square)

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

WELL PAD - BONANZA 1023-6F

TOPO E
 BONANZA 1023-6E4AS, BONANZA 1023-6F4CS,
 BONANZA 1023-6F1CS, BONANZA 1023-6G4CS
 BONANZA 1023-6G2AS & BONANZA 1023-6F1AS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., Uintah County, Utah

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 CONSULTING, LLC
 371 Coffeen Avenue
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 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 13 Apr 2010	17 17 of 18
Revised: CPS	Date: 15 Oct 2010	

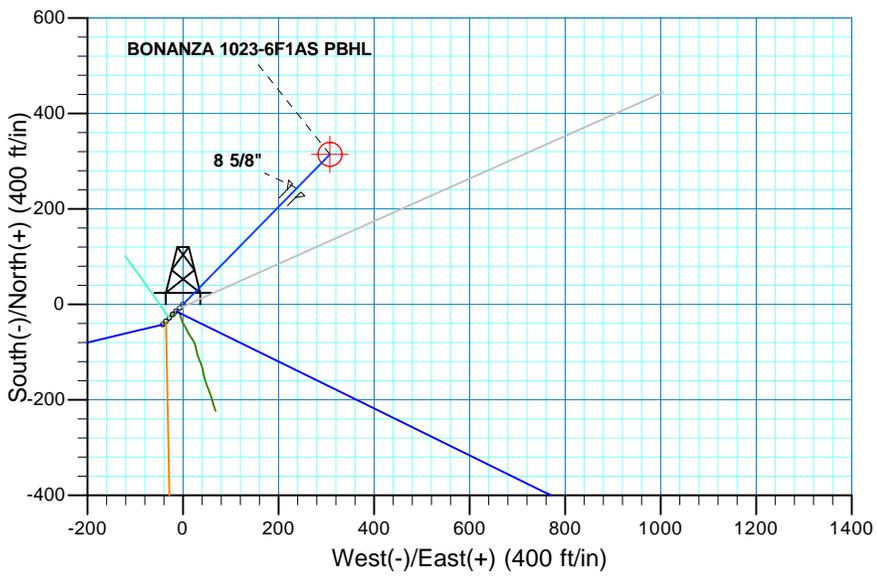
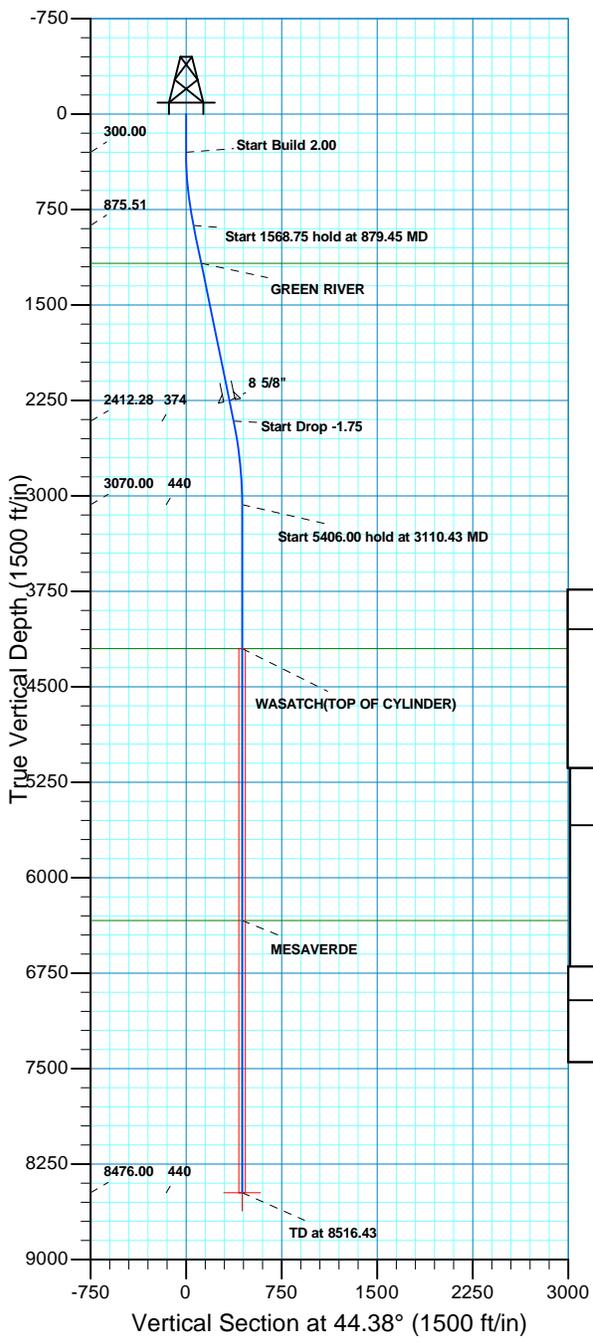
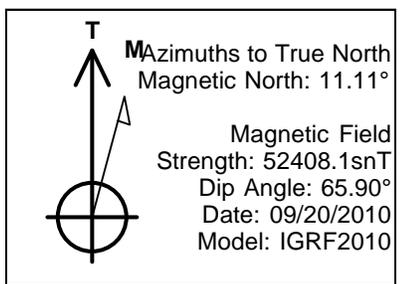
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-6F
WELLS – BONANZA 1023-6F1AS, BONANZA 1023-6G2AS,
BONANZA 1023-6G4CS, BONANZA 1023-6F1CS,
BONANZA 1023-6F4CS & BONANZA 1023-6E4AS
Section 6, T10S, R23E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 4.3 miles to the intersection of the Atchee Wash Road (County B Road 4240). Exit right and proceed in a southeasterly, then southerly direction along the Atchee Wash Road approximately 4.0 miles to a service road to the left. Exit left and proceed in a southeasterly direction along service road approximately 0.4 miles to a second service road to the right. Exit right and proceed in a southerly direction along the service road approximately 150 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 46.6 miles in a southerly direction.

WELL DETAILS: BONANZA 1023-6F1AS					
GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14522994.12	2096840.27	39° 58' 48.616 N	109° 22' 14.754 W

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8476.00	314.69	307.94	14523314.39	2097142.41	39° 58' 51.726 N	109° 22' 10.798 W	Circle (Radius: 25.00)	
- 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		
879.45	11.59	44.38	875.51	41.74	40.85	2.00	44.38	58.40		
2448.20	11.59	44.38	2412.28	266.98	261.26	0.00	0.00	373.55		
3110.43	0.00	0.00	3070.00	314.69	307.94	1.75	180.00	440.29		
8516.43	0.00	0.00	8476.00	314.69	307.94	0.00	0.00	440.29	BONANZA 1023-6F1AS PBHL	

PROJECT DETAILS: Uintah County, UT UTM12			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)	TVDPath	MDPath	Formation		
Datum: NAD 1927 - Western US	1173.00	1183.13	GREEN RIVER		
Ellipsoid: Clarke 1866	4200.00	4240.43	WASATCH(TOP OF CYLINDER)		
Zone: Zone 12N (114 W to 108 W)	6336.00	6376.43	MESAVERDE		
Location: SEC 6 T10S R23E					
System Datum: Mean Sea Level					

CASING DETAILS					
	TVD	MD	Name	Size	
	2253.00	2285.61	8 5/8"	8.625	



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
Bonanza 1023-6F Pad
BONANZA 1023-6F1AS**

OH

Plan: PLAN #1

Standard Planning Report

20 September, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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

Site	Bonanza 1023-6F Pad, SEC 6 T10S R23E				
Site Position:		Northing:	14,522,994.13 usft	Latitude:	39° 58' 48.616 N
From:	Lat/Long	Easting:	2,096,840.26 usft	Longitude:	109° 22' 14.754 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.05 °

Well	BONANZA 1023-6F1AS, 1860' FNL 2067' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,522,994.13 usft	Latitude:	39° 58' 48.616 N
	+E/-W	0.00 ft	Easting:	2,096,840.26 usft	Longitude:	109° 22' 14.754 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,123.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/20/2010	11.11	65.90	52,408

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	44.38

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	
879.45	11.59	44.38	875.51	41.74	40.85	2.00	2.00	0.00	44.38	
2,448.20	11.59	44.38	2,412.28	266.98	261.26	0.00	0.00	0.00	0.00	
3,110.43	0.00	0.00	3,070.00	314.69	307.94	1.75	-1.75	0.00	180.00	
8,516.43	0.00	0.00	8,476.00	314.69	307.94	0.00	0.00	0.00	0.00	BONANZA 1023-6F1,

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	
Start Build 2.00										
400.00	2.00	44.38	399.98	1.25	1.22	1.75	2.00	2.00	0.00	
500.00	4.00	44.38	499.84	4.99	4.88	6.98	2.00	2.00	0.00	
600.00	6.00	44.38	599.45	11.22	10.98	15.69	2.00	2.00	0.00	
700.00	8.00	44.38	698.70	19.93	19.50	27.88	2.00	2.00	0.00	
800.00	10.00	44.38	797.47	31.11	30.44	43.52	2.00	2.00	0.00	
879.45	11.59	44.38	875.51	41.74	40.85	58.40	2.00	2.00	0.00	
Start 1568.75 hold at 879.45 MD										
900.00	11.59	44.38	895.64	44.69	43.73	62.53	0.00	0.00	0.00	
1,000.00	11.59	44.38	993.60	59.05	57.78	82.62	0.00	0.00	0.00	
1,100.00	11.59	44.38	1,091.56	73.41	71.83	102.71	0.00	0.00	0.00	
1,183.13	11.59	44.38	1,173.00	85.34	83.52	119.41	0.00	0.00	0.00	
GREEN RIVER										
1,200.00	11.59	44.38	1,189.52	87.77	85.89	122.80	0.00	0.00	0.00	
1,300.00	11.59	44.38	1,287.48	102.12	99.94	142.89	0.00	0.00	0.00	
1,400.00	11.59	44.38	1,385.45	116.48	113.99	162.98	0.00	0.00	0.00	
1,500.00	11.59	44.38	1,483.41	130.84	128.04	183.06	0.00	0.00	0.00	
1,600.00	11.59	44.38	1,581.37	145.20	142.09	203.15	0.00	0.00	0.00	
1,700.00	11.59	44.38	1,679.33	159.56	156.14	223.24	0.00	0.00	0.00	
1,800.00	11.59	44.38	1,777.29	173.91	170.19	243.33	0.00	0.00	0.00	
1,900.00	11.59	44.38	1,875.25	188.27	184.24	263.42	0.00	0.00	0.00	
2,000.00	11.59	44.38	1,973.21	202.63	198.29	283.51	0.00	0.00	0.00	
2,100.00	11.59	44.38	2,071.17	216.99	212.34	303.60	0.00	0.00	0.00	
2,200.00	11.59	44.38	2,169.14	231.35	226.39	323.69	0.00	0.00	0.00	
2,285.61	11.59	44.38	2,253.00	243.64	238.42	340.88	0.00	0.00	0.00	
8 5/8"										
2,300.00	11.59	44.38	2,267.10	245.70	240.44	343.78	0.00	0.00	0.00	
2,400.00	11.59	44.38	2,365.06	260.06	254.49	363.86	0.00	0.00	0.00	
2,448.20	11.59	44.38	2,412.28	266.98	261.26	373.55	0.00	0.00	0.00	
Start Drop -1.75										
2,500.00	10.68	44.38	2,463.10	274.13	268.26	383.55	1.75	-1.75	0.00	
2,600.00	8.93	44.38	2,561.64	286.31	280.17	400.58	1.75	-1.75	0.00	
2,700.00	7.18	44.38	2,660.64	296.33	289.97	414.60	1.75	-1.75	0.00	
2,800.00	5.43	44.38	2,760.04	304.18	297.66	425.59	1.75	-1.75	0.00	
2,900.00	3.68	44.38	2,859.72	309.86	303.22	433.53	1.75	-1.75	0.00	
3,000.00	1.93	44.38	2,959.59	313.36	306.64	438.43	1.75	-1.75	0.00	
3,100.00	0.18	44.38	3,059.57	314.68	307.93	440.28	1.75	-1.75	0.00	
3,110.43	0.00	0.00	3,070.00	314.69	307.94	440.29	1.75	-1.75	0.00	
Start 5406.00 hold at 3110.43 MD										
3,200.00	0.00	0.00	3,159.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,259.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,359.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,459.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,559.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,659.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,759.57	314.69	307.94	440.29	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,859.57	314.69	307.94	440.29	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	3,959.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,059.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,159.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,240.43	0.00	0.00	4,200.00	314.69	307.94	440.29	0.00	0.00	0.00	
WASATCH(TOP OF CYLINDER)										
4,300.00	0.00	0.00	4,259.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,359.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,459.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,559.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,659.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,759.57	314.69	307.94	440.29	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,859.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,959.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,059.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,159.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,259.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,359.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,459.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,559.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,659.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,759.57	314.69	307.94	440.29	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,859.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,959.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,059.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,159.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,259.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,376.43	0.00	0.00	6,336.00	314.69	307.94	440.29	0.00	0.00	0.00	
MESAVERDE										
6,400.00	0.00	0.00	6,359.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,459.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,559.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,659.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,759.57	314.69	307.94	440.29	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,859.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,959.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,059.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,159.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,259.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,359.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,459.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,559.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,659.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,759.57	314.69	307.94	440.29	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,859.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,959.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,059.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,159.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,259.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,359.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,459.57	314.69	307.94	440.29	0.00	0.00	0.00	
8,516.43	0.00	0.00	8,476.00	314.69	307.94	440.29	0.00	0.00	0.00	
BONANZA 1023-6F1AS PBHL										

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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 1023-6F1AS - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,476.00	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,285.61	2,253.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,183.13	1,173.00	GREEN RIVER			
4,240.43	4,200.00	WASATCH(TOP OF CYLINDER)			
6,376.43	6,336.00	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
879.45	875.51	41.74	40.85	Start 1568.75 hold at 879.45 MD
2,448.20	2,412.28	266.98	261.26	Start Drop -1.75
3,110.43	3,070.00	314.69	307.94	Start 5406.00 hold at 3110.43 MD
8,516.43	8,476.00	314.69	307.94	TD at 8516.43



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
Bonanza 1023-6F Pad
BONANZA 1023-6F1AS**

OH

Plan: PLAN #1

Standard Planning Report - Geographic

20 September, 2010



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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

Site	Bonanza 1023-6F Pad, SEC 6 T10S R23E				
Site Position:		Northing:	14,522,994.13 usft	Latitude:	39° 58' 48.616 N
From:	Lat/Long	Easting:	2,096,840.26 usft	Longitude:	109° 22' 14.754 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.05 °

Well	BONANZA 1023-6F1AS, 1860' FNL 2067' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,522,994.13 usft	Latitude:	39° 58' 48.616 N
	+E/-W	0.00 ft	Easting:	2,096,840.26 usft	Longitude:	109° 22' 14.754 W
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:	5,123.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/20/2010	11.11	65.90	52,408

Design	PLAN #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	44.38	

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	
879.45	11.59	44.38	875.51	41.74	40.85	2.00	2.00	0.00	44.38	
2,448.20	11.59	44.38	2,412.28	266.98	261.26	0.00	0.00	0.00	0.00	
3,110.43	0.00	0.00	3,070.00	314.69	307.94	1.75	-1.75	0.00	180.00	
8,516.43	0.00	0.00	8,476.00	314.69	307.94	0.00	0.00	0.00	0.00	BONANZA 1023-6F1,

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	14,522,994.13	2,096,840.26	39° 58' 48.616 N	109° 22' 14.754 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,522,994.13	2,096,840.26	39° 58' 48.616 N	109° 22' 14.754 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,522,994.13	2,096,840.26	39° 58' 48.616 N	109° 22' 14.754 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,522,994.13	2,096,840.26	39° 58' 48.616 N	109° 22' 14.754 W	
Start Build 2.00										
400.00	2.00	44.38	399.98	1.25	1.22	14,522,995.40	2,096,841.46	39° 58' 48.628 N	109° 22' 14.738 W	
500.00	4.00	44.38	499.84	4.99	4.88	14,522,999.20	2,096,845.05	39° 58' 48.665 N	109° 22' 14.691 W	
600.00	6.00	44.38	599.45	11.22	10.98	14,523,005.54	2,096,851.03	39° 58' 48.726 N	109° 22' 14.613 W	
700.00	8.00	44.38	698.70	19.93	19.50	14,523,014.41	2,096,859.39	39° 58' 48.813 N	109° 22' 14.503 W	
800.00	10.00	44.38	797.47	31.11	30.44	14,523,025.79	2,096,870.13	39° 58' 48.923 N	109° 22' 14.363 W	
879.45	11.59	44.38	875.51	41.74	40.85	14,523,036.61	2,096,880.34	39° 58' 49.028 N	109° 22' 14.229 W	
Start 1568.75 hold at 879.45 MD										
900.00	11.59	44.38	895.64	44.69	43.73	14,523,039.61	2,096,883.17	39° 58' 49.057 N	109° 22' 14.192 W	
1,000.00	11.59	44.38	993.60	59.05	57.78	14,523,054.22	2,096,896.96	39° 58' 49.199 N	109° 22' 14.012 W	
1,100.00	11.59	44.38	1,091.56	73.41	71.83	14,523,068.84	2,096,910.74	39° 58' 49.341 N	109° 22' 13.831 W	
1,183.13	11.59	44.38	1,173.00	85.34	83.52	14,523,080.98	2,096,922.20	39° 58' 49.459 N	109° 22' 13.681 W	
GREEN RIVER										
1,200.00	11.59	44.38	1,189.52	87.77	85.89	14,523,083.45	2,096,924.53	39° 58' 49.483 N	109° 22' 13.651 W	
1,300.00	11.59	44.38	1,287.48	102.12	99.94	14,523,098.06	2,096,938.31	39° 58' 49.625 N	109° 22' 13.470 W	
1,400.00	11.59	44.38	1,385.45	116.48	113.99	14,523,112.67	2,096,952.10	39° 58' 49.767 N	109° 22' 13.290 W	
1,500.00	11.59	44.38	1,483.41	130.84	128.04	14,523,127.29	2,096,965.89	39° 58' 49.909 N	109° 22' 13.109 W	
1,600.00	11.59	44.38	1,581.37	145.20	142.09	14,523,141.90	2,096,979.67	39° 58' 50.051 N	109° 22' 12.929 W	
1,700.00	11.59	44.38	1,679.33	159.56	156.14	14,523,156.51	2,096,993.46	39° 58' 50.193 N	109° 22' 12.748 W	
1,800.00	11.59	44.38	1,777.29	173.91	170.19	14,523,171.12	2,097,007.24	39° 58' 50.335 N	109° 22' 12.567 W	
1,900.00	11.59	44.38	1,875.25	188.27	184.24	14,523,185.74	2,097,021.03	39° 58' 50.477 N	109° 22' 12.387 W	
2,000.00	11.59	44.38	1,973.21	202.63	198.29	14,523,200.35	2,097,034.81	39° 58' 50.618 N	109° 22' 12.206 W	
2,100.00	11.59	44.38	2,071.17	216.99	212.34	14,523,214.96	2,097,048.60	39° 58' 50.760 N	109° 22' 12.026 W	
2,200.00	11.59	44.38	2,169.14	231.35	226.39	14,523,229.57	2,097,062.38	39° 58' 50.902 N	109° 22' 11.845 W	
2,285.61	11.59	44.38	2,253.00	243.64	238.42	14,523,242.08	2,097,074.19	39° 58' 51.024 N	109° 22' 11.691 W	
8 5/8"										
2,300.00	11.59	44.38	2,267.10	245.70	240.44	14,523,244.19	2,097,076.17	39° 58' 51.044 N	109° 22' 11.665 W	
2,400.00	11.59	44.38	2,365.06	260.06	254.49	14,523,258.80	2,097,089.96	39° 58' 51.186 N	109° 22' 11.484 W	
2,448.20	11.59	44.38	2,412.28	266.98	261.26	14,523,265.84	2,097,096.60	39° 58' 51.254 N	109° 22' 11.397 W	
Start Drop -1.75										
2,500.00	10.68	44.38	2,463.10	274.13	268.26	14,523,273.12	2,097,103.47	39° 58' 51.325 N	109° 22' 11.307 W	
2,600.00	8.93	44.38	2,561.64	286.31	280.17	14,523,285.51	2,097,115.15	39° 58' 51.445 N	109° 22' 11.154 W	
2,700.00	7.18	44.38	2,660.64	296.33	289.97	14,523,295.70	2,097,124.77	39° 58' 51.545 N	109° 22' 11.028 W	
2,800.00	5.43	44.38	2,760.04	304.18	297.66	14,523,303.69	2,097,132.31	39° 58' 51.622 N	109° 22' 10.930 W	
2,900.00	3.68	44.38	2,859.72	309.86	303.22	14,523,309.47	2,097,137.76	39° 58' 51.678 N	109° 22' 10.858 W	
3,000.00	1.93	44.38	2,959.59	313.36	306.64	14,523,313.04	2,097,141.13	39° 58' 51.713 N	109° 22' 10.814 W	
3,100.00	0.18	44.38	3,059.57	314.68	307.93	14,523,314.38	2,097,142.39	39° 58' 51.726 N	109° 22' 10.798 W	
3,110.43	0.00	0.00	3,070.00	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
Start 5406.00 hold at 3110.43 MD										
3,200.00	0.00	0.00	3,159.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,300.00	0.00	0.00	3,259.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,400.00	0.00	0.00	3,359.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,500.00	0.00	0.00	3,459.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,600.00	0.00	0.00	3,559.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,700.00	0.00	0.00	3,659.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,800.00	0.00	0.00	3,759.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
3,900.00	0.00	0.00	3,859.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,000.00	0.00	0.00	3,959.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	4,059.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,200.00	0.00	0.00	4,159.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,240.43	0.00	0.00	4,200.00	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
WASATCH(TOP OF CYLINDER)										
4,300.00	0.00	0.00	4,259.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,400.00	0.00	0.00	4,359.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,500.00	0.00	0.00	4,459.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,600.00	0.00	0.00	4,559.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,700.00	0.00	0.00	4,659.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,800.00	0.00	0.00	4,759.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
4,900.00	0.00	0.00	4,859.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,000.00	0.00	0.00	4,959.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,100.00	0.00	0.00	5,059.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,200.00	0.00	0.00	5,159.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,300.00	0.00	0.00	5,259.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,400.00	0.00	0.00	5,359.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,500.00	0.00	0.00	5,459.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,600.00	0.00	0.00	5,559.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,700.00	0.00	0.00	5,659.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,800.00	0.00	0.00	5,759.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
5,900.00	0.00	0.00	5,859.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,000.00	0.00	0.00	5,959.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,100.00	0.00	0.00	6,059.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,200.00	0.00	0.00	6,159.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,300.00	0.00	0.00	6,259.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,376.43	0.00	0.00	6,336.00	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
MESAVERDE										
6,400.00	0.00	0.00	6,359.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,500.00	0.00	0.00	6,459.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,600.00	0.00	0.00	6,559.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,700.00	0.00	0.00	6,659.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,800.00	0.00	0.00	6,759.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
6,900.00	0.00	0.00	6,859.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,000.00	0.00	0.00	6,959.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,100.00	0.00	0.00	7,059.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,200.00	0.00	0.00	7,159.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,300.00	0.00	0.00	7,259.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,400.00	0.00	0.00	7,359.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,500.00	0.00	0.00	7,459.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,600.00	0.00	0.00	7,559.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,700.00	0.00	0.00	7,659.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,800.00	0.00	0.00	7,759.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
7,900.00	0.00	0.00	7,859.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,000.00	0.00	0.00	7,959.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,100.00	0.00	0.00	8,059.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,200.00	0.00	0.00	8,159.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,300.00	0.00	0.00	8,259.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,400.00	0.00	0.00	8,359.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,500.00	0.00	0.00	8,459.57	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
8,516.43	0.00	0.00	8,476.00	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W	
BONANZA 1023-6F1AS PBHL										

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6F1AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5123' & RKB 14' @ 5137.00ft (ASSUMED)
Site:	Bonanza 1023-6F Pad	North Reference:	True
Well:	BONANZA 1023-6F1AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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 1023-6F1AS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,476.00	314.69	307.94	14,523,314.39	2,097,142.40	39° 58' 51.726 N	109° 22' 10.798 W

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
2,285.61	2,253.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
1,183.13	1,173.00	GREEN RIVER			
4,240.43	4,200.00	WASATCH(TOP OF CYLINDER)			
6,376.43	6,336.00	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	
879.45	875.51	41.74	40.85	Start 1568.75 hold at 879.45 MD	
2,448.20	2,412.28	266.98	261.26	Start Drop -1.75	
3,110.43	3,070.00	314.69	307.94	Start 5406.00 hold at 3110.43 MD	
8,516.43	8,476.00	314.69	307.94	TD at 8516.43	

Kerr-McGee Oil & Gas Onshore. L.P.**Bonanza 1023-6F Pad**

<u>API #</u>	<u>BONANZA 1023-6E4AS</u>		
	Surface: 1902 FNL / 2024 FWL	SENW	Lot
	BHL: 2105 FNL / 1164 FWL	SWNW	Lot 5
<u>API #</u>	<u>BONANZA 1023-6F1AS</u>		
	Surface: 1860 FNL / 2067 FWL	SENW	Lot
	BHL: 1545 FNL / 2377 FWL	SENW	Lot
<u>API #</u>	<u>BONANZA 1023-6F1CS</u>		
	Surface: 1888 FNL / 2039 FWL	SENW	Lot
	BHL: 1757 FNL / 1947 FWL	SENW	Lot
<u>API #</u>	<u>BONANZA 1023-6F4CS</u>		
	Surface: 1895 FNL / 2031 FWL	SENW	Lot
	BHL: 2529 FNL / 2040 FWL	SENW	Lot
<u>API #</u>	<u>BONANZA 1023-6G2AS</u>		
	Surface: 1867 FNL / 2060 FWL	SENW	Lot
	BHL: 1415 FNL / 2167 FEL	SWNE	Lot
<u>API #</u>	<u>BONANZA 1023-6G4CS</u>		
	Surface: 1874 FNL / 2053 FWL	SENW	Lot
	BHL: 2485 FNL / 1945 FEL	SWNE	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.

±5,490' (1.0 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, from the edge of pad to the eastern section line boundary in NE/4 SE/4. Please see Topo D and Exhibit B2, Lines 7 and 5.

The following segments require a ROW.

- ±1,310' (0.3 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, from the western section line boundary the southern section line boundary. Please refer to Exhibit B2, Line 4.
- ±40' (0.01 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, dips into the northern section line boundary and back up to northern section line boundary. Please refer to Exhibit B2, Line 3.
- ±600' (0.1 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, comes in from the southern section boundary line, travels east, then back to the southern section boundary line. Please refer to Exhibit B2, Line 2.
- ±1,010' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, enters the northern section line boundary and ties in to existing road in the NE/4 NW/4 of section 8. Please refer to Exhibit B2, Line 1.

B. New or Reconstructed Access Roads:

See MDP for additional details on road construction.

No new roads need to be constructed for this pad.

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 1023-6F, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 28, 2010. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (KMG).

GAS GATHERING

The gas gathering pipeline material: Steel line pipe with fusion bond epoxy coating. The total gas gathering pipeline distance from the meter to the tie in point is ±10,130' and the individual segments are broken up as follows:

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

- ±670' (0.1 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.
- ±100' (0.01 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the proposed 16" pipeline. Please refer Topo D Pad and Pipeline Detail.

±2,900' (0.5 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 16" buried gas gathering pipeline from the Bonanza 1023-6F Pad 6" tie-in to the western edge of the section line boundary. Please refer to Exhibit A1, Lines 9, 11, 12 and 13. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

±6,460' (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 16" buried gas gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit A1, Line 14. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

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

Kerr-McGee, additionally will install a gas gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed gas gathering from the meter to the tie in point is ±8,570 and the individual segments are broken up as follows:

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

- ±670' (0.1 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.
- ±100' (0.01 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the proposed 16" pipeline. Please refer Topo D Pad and Pipeline Detail.
- ±4,900' (0.9 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 16" buried gas gathering pipeline from the Bonanza 1023-6F Pad 6" tie-in to the eastern edge of the lease and section line boundary. Please refer to Exhibit A1, Lines 8 and 6. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

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

- ±360' (0.03 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 16" gas gathering pipeline dips in from the south lease boundary of 1023-Section 5 and back south to the section boundary. Please refer to Exhibit A1, Line 3 and 2. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±1,130' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, BLM surface, New 16" gas gathering pipeline comes in from the north lease boundary of 1023-Section 8 and goes southeasterly to the tie in point in the NENW of 1023 section 8. Please refer to Exhibit A1, Line 1. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

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

LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is ±10,130' and the individual segments are broken up as follows:

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

- ±670' (0.1 miles) – Section 6 T10S R23E (SE/4 NW/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.
- ±100' (0.01 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the tie-in point at proposed 6" liquid pipeline. Please refer Topo D Pad and Pipeline Detail.
- ±2,900' (0.5 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the Bonanza 1023-6F Pad 6" tie-in to the western edge of the section line boundary. Please refer to Exhibit B1, Lines 18, 2, 3 and 4. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

- ±6,460' (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit B1, Line 5. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

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

Kerr-McGee, additionally will install a liquid gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed liquid gathering from the separator to the tie in point is ±8,570 and the individual segments are broken up as follows:

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

- ±670' (0.1 miles) – Section 6 T10S R23E (SE/4 NW/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.
- ±100' (0.01 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the tie-in point at proposed 6" liquid pipeline. Please refer Topo D Pad and Pipeline Detail.
- ±4,900' (0.9 miles) – Section 6 T10S R23E (SE/4 NW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the Bonanza 1023-6F Pad 6" tie-in to the eastern edge of the lease and section line boundary. Please refer to Exhibit B1, Lines 19 and 7. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6H, Bonanza 1023-5L and Bonanza 1023-5M Pads.

The following segments require a ROW.

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

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

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

The proposed trench width for the pipeline would range from 18-48 inch and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. The pipeline will be welded or zap locked along the proposed right-of-way and lowered into place. During construction blasting may occur along the proposed right-of-way when trenching equipment can not cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically tested before being placed into service.

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

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

The Anadarko Completions Transportation System (ACTS) information:

See MDP for additional details on the ACTS System.

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

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The refurbished pit will be relined per the guidelines in the MDP. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit that does not coincide with Kerr-McGee's MDP. Hog fence panels (5' X 16') will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits. There will be two 500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The

purpose of the temporary frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will be also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

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

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig.

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

E. Location and Types of Water Supply:

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

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

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

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

No water well is to be drilled on this lease.

F. Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods for Handling Waste:

See MDP for additional details on Methods of Handling Waste Materials

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

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

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

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

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

H. Ancillary Facilities:

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

I. Well Site Layout:

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

J. Plans for Surface Reclamation:

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

Site Specific Reclamation Considerations:

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

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

Bonanza Area Mix	Pure Live Seed lbs/acre
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
Total	9.75

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
- Construction: Need to have PET from BLM to inspect Pipeline before line is buried
- Facilities: Need stream alteration permit from 6F to the compressor station
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" topsoil

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 April 28, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-26.

Biological field survey was completed on June 8, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-308.

Right-of-Ways (ROW):

See MDP for additional information on ROW

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 28, 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 1023-6F1AS
T10S- R23E
Section 6: SENW/SEW
1860' FNL, 2067' FWL (surface)
1545' FNL, 2377' FWL (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 1023-6F1AS 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

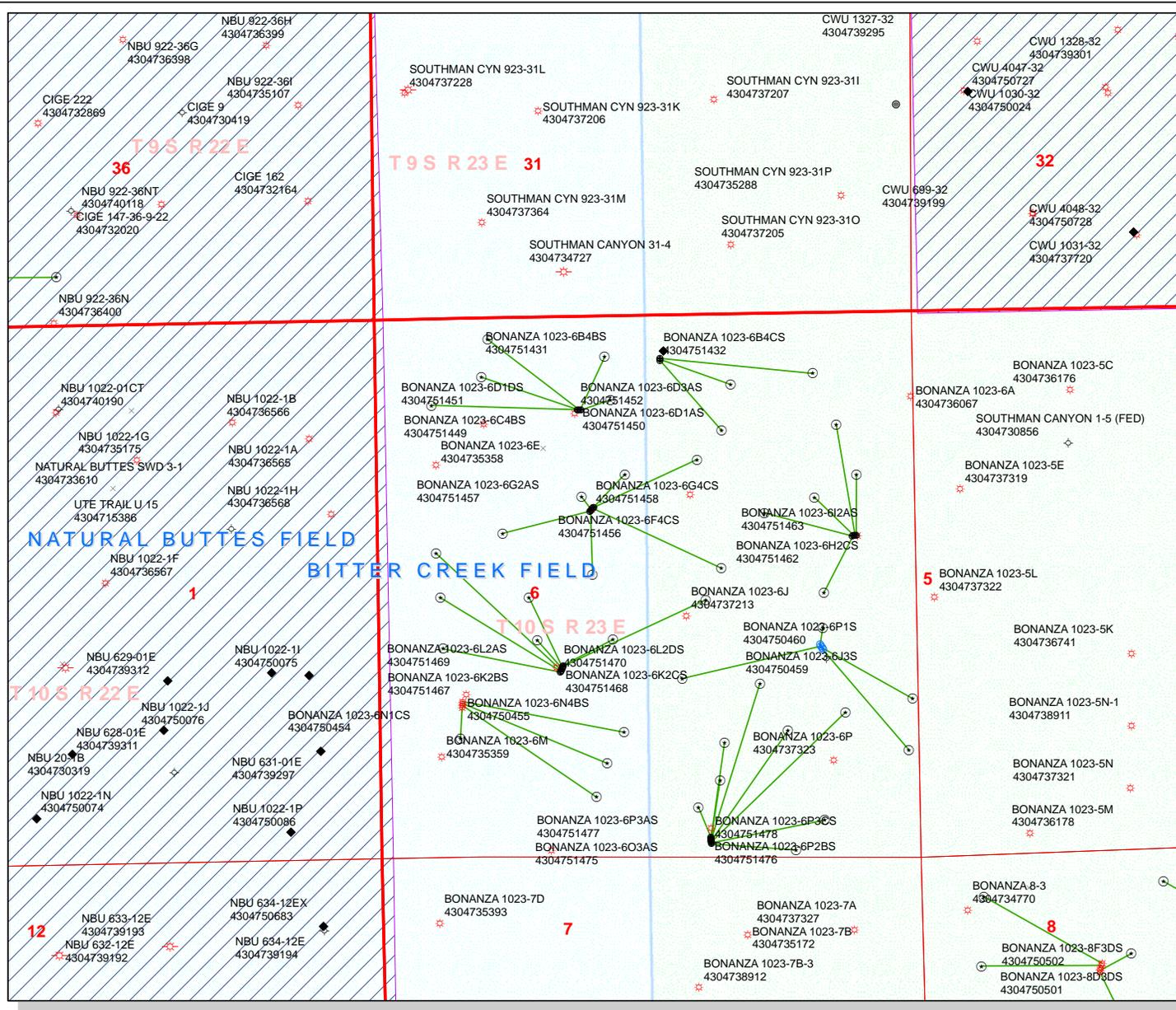
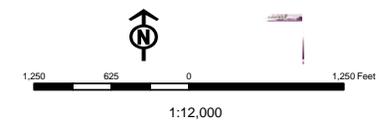
A handwritten signature in blue ink that reads 'Jessy Pink'.

Jessy Pink
Landman

API Number: 4304751454
Well Name: BONANZA 1023-6F1AS
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	OPS - 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: 1/3/2011

API NO. ASSIGNED: 43047514540000

WELL NAME: BONANZA 1023-6F1AS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SENW 06 100S 230E

Permit Tech Review:

SURFACE: 1860 FNL 2067 FWL

Engineering Review:

BOTTOM: 1545 FNL 2377 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98022

LONGITUDE: -109.37092

UTM SURF EASTINGS: 639105.00

NORTHINGS: 4426622.00

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: BONANZA 1023-6F1AS

API Well Number: 43047514540000

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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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", with a stylized flourish at the end.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JAN 04 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU38419
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. BONANZA 1023-6F1AS
3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086		9. API Well No. 43 047 51454
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENW 1860FNL 2067FWL 39.98014 N Lat, 109.37144 W Lon At proposed prod. zone SENW 1545FNL 2377FWL 39.98100 N Lat, 109.37035 W Lon		10. Field and Pool, or Exploratory BONANZA
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 46.7 MILES SOUTH OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1545	16. No. of Acres in Lease 516.80	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 470	19. Proposed Depth 8516 MD 8476 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5124 GL	22. Approximate date work will start 06/30/2011	23. Estimated duration 60-90 DAYS

24. Attachments

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

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 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 OCT 06 2011
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL 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 #99868 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

UDOGM

OCT 17 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:	SENW, Sec. 6, T10S, R23E (S) SENW, Sec. 6, T10S, R23E (B)
Well No:	Bonanza 1023-6F1AS	Lease No:	UTU-38419
API No:	43-047-514543	Agreement:	N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

Location Construction (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: ut_vn_opreport@blm.gov .
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_x 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_x 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

**Bonanza 1023-6F1AS
DOI-BLM-UT-G010-2011-0396-EA**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NO_x per horsepower-hour.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.

- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- *Discovery Stipulation:* Re-initiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

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

Site Specific Drilling Plan COA's:

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

Variations Granted:

Air Drilling:

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

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- 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 (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
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 1023-6F1AS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514540000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1860 FNL 2067 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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: 11/29/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <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"/> 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 PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 11/29/2011 AT 0900 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/1/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By JAIME SCHARNOWSKE Phone Number 720.929.6304
 Well Name/Number BONANZA 1023-6F1AS
 Qtr/Qtr SEnw Section 6 Township 10S Range 23E
 Lease Serial Number UTU38419
 API Number 4304751454

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

Date/Time 11/28/2011 08:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

Date/Time 12/10/2011 08:00 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 KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

Amended

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By JAIME SCHARNOWSKE Phone Number 720.929.6304
 Well Name/Number BONANZA 1023-6F1AS
 Qtr/Qtr SENW Section 6 Township 10S Range 23E
 Lease Serial Number UTU38419
 API Number 4304751454

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

Date/Time 11/29/2011 07:00 HRS AM PM

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

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

RECEIVED
 NOV 29 2011
 DIV. OF OIL, GAS & MINING

Date/Time 12/07/2011 08:00 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 KENNY GATHINGS AT
435.828.0986 OR LOVELL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1860 FNL 2067 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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"/> NOTICE OF INTENT Approximate date work will start: 12/19/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" 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 type="checkbox"/> DRILLING REPORT 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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 50px;" 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 a closed loop drilling option and a production casing change. 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: 12/20/2011

By: *Derek Quist*

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

Kerr-McGee Oil & Gas Onshore. L.P.**BONANZA 1023-6F1AS**

Surface: 1860 FNL / 2067 FWL SENW
 BHL: 1545 FNL / 2377 FWL SENW

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	1173'	
Birds Nest	1,439'	Water
Mahogany	1,803'	Water
Wasatch	4,200'	Gas
Mesaverde	6,336'	Gas
MVU2	7,301'	Gas
MVL1	7,878'	Gas
TVD	8,476'	
TD	8,516'	

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 8476' TVD, approximately equals
5,425 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,548 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'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,250	28.00	IJ-55	LTC	2.40	1.79	6.31	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		3.34
						1.11	1.15	6.76	

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 Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	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
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1,750'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	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	3,696'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	12.00	3.38
	TAIL	4,820'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,140	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. 1 on first 3 joints and 1 every third from there up.

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:

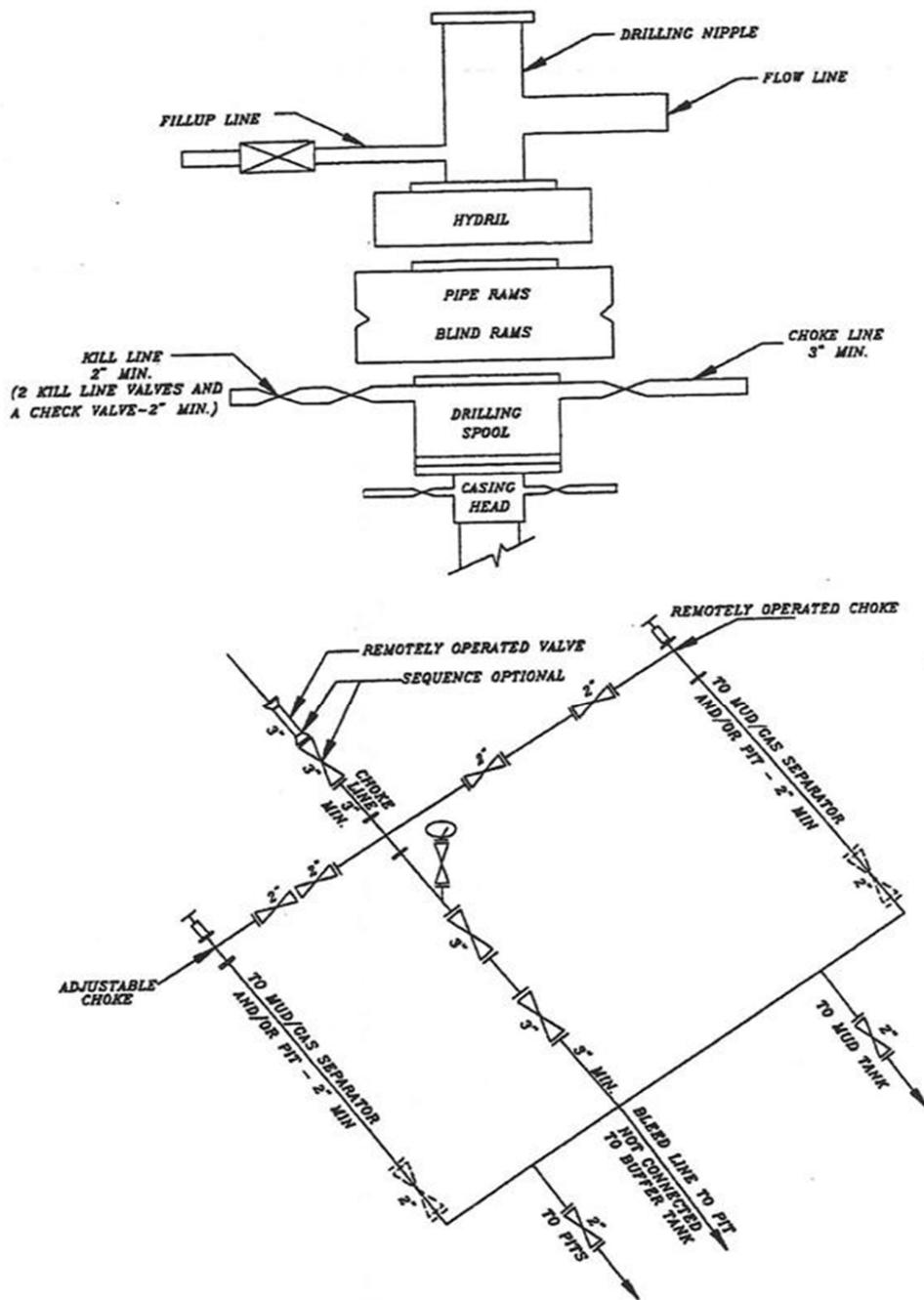
Nick Spence / Danny Showers / Chad Loesel

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A
BONANZA 1023-6F1AS



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.

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
4304751454	BONANZA 1023-6F1AS		SENV	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18338	11/29/2011			12/16/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>W57MVD</i> SPUD WELL ON 11/29/2011 AT 0900 HRS <i>BHL=SENV</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751457	BONANZA 1023-6G2AS		SENV	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18339	11/29/2011			12/16/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>W57MVD</i> SPUD WELL ON 11/29/2011 AT 1200 HRS. <i>BHL=SWNE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751458	BONANZA 1023-6G4CS		SENV	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18340	11/29/2011			12/16/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>W57MVD</i> SPUD WELL ON 11/29/2011 AT 1500 HRS. <i>BHL=SWNE</i>							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

12/1/2011

Date

(5/2000)

RECEIVED

DEC 01 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:																														
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6F1AS																															
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1860 FNL 2067 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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																																
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<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: 12/27/2011	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; border: none;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; border: none;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="border: none;"><input type="checkbox"/> CHANGE TUBING</td> <td style="border: none;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="border: none;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="border: none;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> DEEPEN</td> <td style="border: none;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="border: none;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="border: none;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="border: none;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="border: none;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="border: none;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="border: none;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="border: none;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> TUBING REPAIR</td> <td style="border: none;"><input type="checkbox"/> VENT OR FLARE</td> <td style="border: none;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="border: none;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="border: none;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="border: none;"><input type="checkbox"/> OTHER</td> <td style="border: none;">OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<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"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON DEC. 20, 2011. SHUT DOWN UNTIL PM OF 12/25/11. DRILLED SURFACE HOLE TO 2360'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.																																
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304																														
SIGNATURE N/A		TITLE Regularatory Analyst DATE 12/28/2011																														

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514540000
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: 1860 FNL 2067 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: MATHEW 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
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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: 2/13/2012	<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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	<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 ROTARY RIG. FINISHED DRILLING FROM 2360' TO 8547' ON FEBRUARY 11, 2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED XTREME 12 RIG ON FEBRUARY 13, 2012 @ 14:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 February 14, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/14/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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SUNDRY NOTICES AND REPORTS ON WELLS	
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
9. FIELD and POOL or WILDCAT: MATHEW BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1860 FNL 2067 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW 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

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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/3/2012	<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.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON DATE 5/3/2012
 AT TIME 4:20 PM 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
 May 15, 2012

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 5/10/2012	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU38419

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 **SENW 1860FNL 2067FWL 39.980137 N Lat, 109.371445 W Lon**
 At top prod interval reported below **SENW 1527FNL 2371FWL**
 At total depth **SENW 1561FNL 2382FWL** *BHL by HSM*

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 **11/29/2011** 15. Date T.D. Reached **02/11/2012** 16. Date Completed D & A Ready to Prod.
05/03/2012

17. Elevations (DF, KB, RT, GL)*
5123 GL

18. Total Depth: MD **8547** TVD **8509** 19. Plug Back T.D.: MD **8502** TVD **8464** 20. Depth Bridge Plug Set: MD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/CMI/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 IJ-55	28.0	0	2320		675		0	
7.875	4.500 I-80	11.6	0	8546		1928		510	

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	7829							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5418	5731	5418 TO 5731	0.360	45	OPEN
B) MESAVERDE	6628	8387	6628 TO 8387	0.360	164	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
5602 TO 8387	PUMPED 8157 BBLs SLICK H2O & 178,889 LBS 30/50 OTTAWA SAND

RECEIVED
JUN 26 2012
DIV. OF OIL, GAS & MINING

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
05/03/2012	05/05/2012	24	→	0.0	1703.0	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 1336	2013.0	→	0	1703	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 #140871 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	1177
				BIRD'S NEST	1450
				MAHOGANY	1920
				WASATCH	4242
				MESAVERDE	6424

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12 ?? bit. The remainder of surface hole was drilled with an 11? bit. DQX csg was run from surface to 4934?; LTC csg was run from 4934? to 8546?. 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 #140871 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 06/18/2012

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 1023-6F1AS RED		Spud Date: 12/21/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-6F PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 11/21/2011	End Date: 2/13/2012
Active Datum: RKB @5,138.00usft (above Mean Sea Level)		UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/20/2011	14:00 - 17:30	3.50	MIRU	01	A	P		MOVE RIG F/NBU 922-36P4CS
	17:30 - 0:00	6.50	MIRU	01	B	P		MOVE RIG OVER HOLE
12/21/2011	0:00 - 0:30	0.50	MIRU	01	B	P		RIG UP
	0:30 - 2:00	1.50	DRLSUR	02	D	P		SPUD 12/21/2011 00:30. DRILL 12.25" HOLE 44'-210' (166', 83'/HR). GPM 400. DH RPM 68 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. POOH
	2:00 - 2:30	0.50	DRLSUR	06	A	P		WINTERIZE RIG & RELEASE RIG FOR SAFETY CLASSES
	2:30 - 4:00	1.50	MAINT	01	G	P		THREE HANDS CAME OUT & STARTED ALL OF THE EQUIPMENT SO THE NIGHT CREW WOULD BE READY TO GO
12/25/2011	14:30 - 18:00	3.50	DRLSUR	01	B	P		HOLD SAFETY MEETING, PICK UP Q506 11" BIT (3RD RUN) (SN 7019741) SCRIBE MOTOR. P/U 8" DIRECTIONAL ASSEMBLY AND SCRIBE. INSTALL EM TOOL. TRIP IN TO 210' TO DRILL AHEAD.
	18:00 - 23:00	5.00	DRLSUR	06	A	P		DRILL 11" HOLE ROTATE/SLIDE 210'-300' (90', 90'/HR). GPM 491. DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,180/930. UP/DOWN/ ROT 52/48/50 K. DRAG 5 K. CIRC RESERVE W. 8.3# WATER.
	23:00 - 0:00	1.00	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 300'-1450' (1150'/109.52' HR). GPM 491. DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,180/930. UP/DOWN/ ROT 52/48/50 K. DRAG 5 K. CIRC RESERVE W. 8.3# WATER.
12/26/2011	0:00 - 10:30	10.50	DRLSUR	02	D	P		POOH 10 JTS. WORK ON MUD PUMP
	10:30 - 12:30	2.00	DRLSUR	08	A	Z		DRILL 11" HOLE ROTATE/SLIDE 1450'-1540' (90'/60' HR). GPM 491. DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,180/930. UP/DOWN/ ROT 52/48/50 K. DRAG 5 K. CIRC RESERVE W. 8.3# WATER.
	12:30 - 15:00	2.50	DRLSUR	02	D	P		LOST CIRC. 1470 APPLIED AIR CHANGE OUT AIR PACKAGE
	15:00 - 19:30	4.50	DRLSUR	08	A	Z		DRILL 11" HOLE ROTATE/SLIDE 1540'-1900' (360'/80' HR). GPM 491. DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,180/930. UP/DOWN/ ROT 72/66/68 K. DRAG 6 K. CIRC RESERVE W. 8.3# WATER & AIR
	19:30 - 0:00	4.50	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 1900'-2360' (460'/61.3' HR). GPM 491. DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,190/1000. UP/DOWN/ ROT 85/65/74 K. DRAG 9 K. CIRC RESERVE W. 8.3# WATER & AIR
	0:00 - 7:30	7.50	DRLSUR	02	D	P		TD WELL 07:30 12/27/2011
12/27/2011	7:30 - 9:30	2.00	DRLSUR	05	C	P		CIRC. F/CSNG
	9:30 - 13:30	4.00	DRLSUR	06	A	P		LDDS, BHA & DIR. TOOLS

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

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

Event: DRILLING

Start Date: 11/21/2011

End Date: 2/13/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:30 - 14:30	1.00	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U.
	14:30 - 17:00	2.50	DRLSUR	12	C	P		RUN 52 JTS 8 5/8, 28# CSNG. LAND CSNG @ 18:00, SHOE SET @ 2320', BAFFLE SET @ 2272.90' LAND CSNG 17:00
	17:00 - 18:00	1.00	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES, CEMENT HEAD, LOAD PLUG.
	18:00 - 19:00	1.00	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 139 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/ 141.8 BBLs OF H2O. NO CIRC THROUGH OUT. FINAL LIFT OF 400 PSI AT 4 BBL/MIN. BUMP PLUG W/750 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.
	19:00 - 21:00	2.00	DRLSUR	13	A	P		WOC
	21:00 - 22:30	1.50	DRLSUR	12	E	P		PUMP 125 SKS (25 BBLs) 15.8# CMT DWN BACKSIDE NO CMT T/SURFACE WOC
	22:30 - 23:00	0.50	DRLSUR	13	A	P		WOC
	23:00 - 0:00	1.00	DRLSUR	12	E	P		PUMP 100 SKS (21BBLs) 15.8# CMT DWN BACKSIDE NO CMT T/SURFACE RIG DWN CMTERS & RELEASE RIG 23:59 12/27/2011 WILL TOP OFF CMT AFTER RIG MOVE
2/3/2012	4:30 - 11:00	6.50	RDMO	01	E	P		HOLD SAFETY MEETING W/ JD FIELD SERVICES. HOLD SAFETY MEETING W/ MOUNTAIN WEST OILFILED. HOLD SAFETY MEETING WITH XTREME DRILLING. RIG DOWN RIG. LOWER DERRICK. RIG DOWN BOILER. RIG DOWN WATER. RIG DOWN ELECTRICAL. MOVE MUD TANKS AND STORAGE. MUD. MOVE DRILL WATER STORAGE AND WATER. MOVE CAMPS. MOVE PIPE TUBS. MOVE CATWALK. MOVE CEMENT SILOS AND WATER UPRIGHT. MOVE DAYTANK AND DOG HOUSE COMBO TO LOCATION. SET MATTING BOARDS ON NEW LOCATION.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

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

Event: DRILLING

Start Date: 11/21/2011

End Date: 2/13/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 20:00	9.00	MIRU	01	B	P		SET IN RIG ON PIECE AT A TIME. SET IN DERRICK AND DRAWWORKS, SET MUD TANKS. SET WATER TANK. RIG UP STAIRS AND RAISE DOG HOUSE. SET DRIL. SET #1 PUMP HOUSE. WAIT FOR #2 PUMP HOUSE TO HANG BOP'S HAD TO WAIT TO SET FUEL TANK/COMBODOG HOUSE FOR #2 PUMP HOUSE. WAIT FOR #2 PUMP, (BROKE DRIVE LINE ON TRUCK CARRYING THE #2 PUMP, UNLOAD AND RELOAD #2 PUMP, SPOT IN #2 PUMP HOUSE, BOILER. SPOT IN SPOT SCR HOUSE AND GENERATOR HOUSE. SET IN FRAC TANK. SET IN SOLID CONTROL EQUIPMENT. SET IN GAS BUSTER. SET IN CHOKE MANIFOLD.
	20:00 - 0:00	4.00	MIRU	01	A	P		RIG UP ELECTRICAL, TURN ON LIGHTS. RAISE DERRICK. INSTALL SUCTION LINE. RIG UP PIT ELECTRICAL. RIG UP BOILER. RIG UP WATER LINES. JD FIELD SERVICES BROUGHT IN AND SET 400 UPRIGHT'S FOR MUD AND WATER, MUD CHEMICALS, AND MISCELLANEOUS EQUIPMENT. RIG ON LOCATION @ 02/03/2012 23:59
2/4/2012	0:00 - 3:00	3.00	MIRU	01	B	P		RIGGED UP STAND PIPE, WIND WALLS, CATWALK TONGS. CATWALK AND ACCUMULATOR LINES. CHANGE OUT WORN TONG LINE IN DERRICK.
	3:00 - 6:00	3.00	MIRU	01	B	P		RIG UP FLOOR. THAW FROZEN FLARE LINES, THAW LINES IN MUD TANKS. CLEAN AROUND SUCTION ON PITS.
	6:00 - 11:00	5.00	MIRU	14	A	P		HOLD SAFETY MEETING. NIPPLE UP STRATA EQUIPMENT. NIPPLE UP FLOWLINE CROSS AND VALVE, HAD A WELDER FIT EVERYTHING TO WORK WITH STRATA EQUIPMENT. CLEAN AND INSPECT ORBIT VALVE. NIPPLE UP ORBIT VALVE. INSTALL FLOW LINE. INSTALL CASING EQUILIZATION AND CSG SENSORS. INSTALL FILL UP LINES. CHAIN AND BOOMER FLOWLINE AND AIR UP BOOTS. SECURE FLOWLINE.
	11:00 - 16:00	5.00	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE 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 500 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. BRING 300 BBL'S OF LIGHT MUD AND WATER INTO SYSTEM. RUNNING ONLY CENTRIFUGES REDUCE MUD WT FROM 10.5 TO 9#. (DEWATERED DIRTY WATER BACK TO BELOW 8.8#.)
	16:00 - 17:00	1.00	MIRU	15	A	P		TIGHTEN SOME LOOSE CONNECTIONS ON STRATA EQUIPMENT
	17:00 - 18:00	1.00	MIRU	15	A	P		TEST STRATA CHOKES AND ORBIT VALVE TO 3000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN.
	18:00 - 21:30	3.50	MIRU	06	A	P		SET UP PIPE RACKS. P/U BHA, TAKE PICTURES AND TALLY. INSTALL WEAR BUSHING. PERFORM PRE-SPUD RIG INSPECTION AND FIX PROBLEMS. HOLD PRESPUD SAFETY MEETING.

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6F1AS RED			Spud Date: 12/21/2011		
Project: UTAH-UINTAH		Site: BONANZA 1023-6F PAD		Rig Name No: PROPETRO 12/12, XTC 12/12	
Event: DRILLING		Start Date: 11/21/2011		End Date: 2/13/2012	
Active Datum: RKB @5,138.00usft (above Mean Sea Level)			UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	21:30 - 23:30	2.00	MIRU	06	A	P		P/U TORO 1.5 BH .36 RPG MUD MOTOR (SN TDT 650.025) M/U DRILLFORMANCE MFG 513T3 (SN 1077) BIT W/ 7-13'S. SCRIBE MOTOR AND MAKE UP MONELS. INSTALL EM TOOL AND PROGRAM.
	23:30 - 0:00	0.50	MIRU	06	A	P		TRIP IN HOLE WITH HWDP. INSTALL STRATA ROT HEAD RUBBER.
2/5/2012	0:00 - 4:00	4.00	MIRU	06	A	P		TRIP IN HOLE. TAG CEMENT 2275'.
	4:00 - 5:30	1.50	DRLPRO	02	F	P		SPUD 02/05/2012 04:00. DRILL CEMENT AND FLOAT EQUIPMENT FROM 2216'-2320'. CSG SHOE @ 2320'. THE RIG IS ONLY CAPABLE OF RUNNING ONE PUMP AT A TIME DUE TO NEEDING AN END CAP FOR THE #2 PUMP, STILL PUMPING 517 GALLONS PER MINUTE, NOT THE 560 GALLONS PER MINUTE AS PER THE DRILLING PROGRAM.
	5:30 - 6:00	0.50	MIRU	07	A	P		SERVICE RIG. SERVICE TOP DRIVE.
	6:00 - 12:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 2,371'-2,889' (518', 86.3'/HR) WOB 15-23K. AVE WOB-19K. RPM 55. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 1917/1439. 500 DIFF. TORQUE ON/OFF 7954/2530. STRING WT UP/DOWN/ROT 62/52/58. DRAG 4K. COME OUT OF SHOE @ 9.25 DEGREE AND CONTINUE THE DROP INTO THE TARGET. SLIDE 60' @ 127'/HR. SLIDE 10% ROT 90%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 45 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 75 BBLS DRILL WATER INTO FORMATION. (LOSING 12 BBLS HR)
	12:00 - 17:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 2,889'-3,309' (420', 76'/HR) WOB 15-23K. AVE WOB-21K. RPM 55. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 2158/1740. 400 DIFF. TORQUE ON/OFF 10000/2900. STRING WT UP/DOWN/ROT 70/50/60. DRAG 10K. DROPPING TO VERTICAL. SLIDE 70' @ 130'/HR. SLIDE 17% ROT 83%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 41 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 44 BBLS DRILL WATER INTO FORMATION. (LOSING 8 BBLS HR)
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. GREASE CROWN. SERVICE GENERATORS.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 3,309'-4,037' (728', 121'/HR) WOB 15-24K. AVE WOB-23K. RPM 55. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 2357/1763. 600 DIFF. TORQUE ON/OFF 6416/5700. STRING WT UP/DOWN/ROT 100/78/89. DRAG 11K. SLIDE 32' @ 115'/HR. SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 49 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 40 BBLS DRILL WATER INTO FORMATION. (LOSING 7 BBLS HR) (BOP DRILL 30 SEC.)

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED		Spud Date: 12/21/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-6F PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 11/21/2011	End Date: 2/13/2012
Active Datum: RKB @5,138.00usft (above Mean Sea Level)		UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/WW/0/2067/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/6/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4,037'-4,694' (657', 110'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 60. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 2299/1789. 400 DIFF. TORQUE ON/OFF 7548/4528. STRING WT UP/DOWN/ROT 103/75/95. DRAG 8K. SLIDE 22' @ 115'/HR . SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 93 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 37 BBLS DRILL WATER INTO FORMATION.
	6:00 - 9:30	3.50	DRLPRO	02	D	P		DRILL SLIDE 4,694'-5,127' (433', 124'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 60. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 2336/1817. 400 DIFF. TORQUE ON/OFF 7859/4569. STRING WT UP/DOWN/ROT 105/77/96. DRAG 9 K. SLIDE 32' @ 115'/HR . SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 60 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 40 BBLS DRILL WATER INTO FORMATION. (BOP DRILL 45 SEC.)
	9:30 - 10:00	0.50	DRLPRO	07	A	P		SERVICE RIG.
	10:00 - 18:00	8.00	DRLPRO	02	D	P		DRILL SLIDE 5,127'-5,807' (680', 85'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 60. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 2359/1832. 400 DIFF. TORQUE ON/OFF 8230/4969. STRING WT UP/DOWN/ROT 117/96/102. DRAG 15 K. SLIDE 32' @ 115'/HR . SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 49 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 40 BBLS DRILL WATER INTO FORMATION.
	18:00 - 18:30	0.50	DRLPRO	07	A	P		SERVICED RIG.
	18:30 - 20:00	1.50	DRLPRO	08	A	Z		PULLED 12 JOINT'S OFF BOTTOM AND CHANGED SWIVEL PACKING.
	20:00 - 0:00	4.00	DRLPRO	22	A	X		GOT STUCK CHANGING THE SWIVEL PACKING. WORKED STRING FREE PULLED ANOTHER 6 JOINTS TO A POINT WHERE WE COULD CIRCULATE. ONCE CIRCULATION WAS REESTABLISHED WE PUMPED A SWEEP AROUND SO WE COULD SWITCH PUMPS OVER AND WORK OUR WAY BACK TO BOTTOM.
2/7/2012	0:00 - 4:00	4.00	DRLPRO	22	A	X		GOT STUCK CHANGING THE SWIVEL PACKING. WORKED STRING FREE PULLED ANOTHER 6 JOINTS TO A POINT WHERE WE COULD CIRCULATE. ONCE CIRCULATION WAS REESTABLISHED WE PUMPED A SWEEP AROUND SO WE COULD SWITCH PUMPS OVER AND WORK OUR WAY BACK TO BOTTOM.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

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

Event: DRILLING

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:00 - 12:30	8.50	DRLPRO	02	D	P		DRILL SLIDE 5,807'-6,244' (437', 51'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 55. DHRPM 186. SPM 115 GPM-517. ON/OFF PSI 2555/1805. 750 DIFF. TORQUE ON/OFF 10425/4925. STRING WT UP/DOWN/ROT 120/105/113. DRAG 7 K. SLIDE 32' @ 115'/HR. SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 28 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION.
	12:30 - 13:00	0.50	DRLPRO	07	A	P		SERVICE RIG.
	13:00 - 15:00	2.00	DRLPRO	05	A	P		MIX AND PUMP HIGH VIS. SWEEP, CIRCULATE AND CONDITION MUD FOR TRIP OUT OF HOLE. MIX AND PUMP 11.5# DRY JOB. NO FLOW ON FLOW CHECK.
	15:00 - 20:30	5.50	DRLPRO	06	A	P		TRIP OUT OF HOLE FOR A MOTOR, HAD A LOT OF ERRATIC DIFFERENTIAL PRESSURES AND TORQUE. RUNNING CENTRIFUGES AND DEWATERING DURING TRIP TO HELP KEEP UP WITH THE LOW GRAVITY SOLID'S.
	20:30 - 21:30	1.00	DRLPRO	06	A	P		LAY DOWN MOTOR AND BIT, MAKE UP NEW MOTOR HUNTING 1.5 BEND .21 REVALUTION'S PER GALON (SN 6170) AND BIT DRILLFORMANCE DF513R 7.875 5 BLADE JET'S 5X14 1X15 (SN 1077). ORIENT DIRECTIONAL TOOL'S.
	21:30 - 22:30	1.00	DRLPRO	06	A	P		PICK UP BOTTOM HOLE ASSEMBLY (HEAVY WEIGHT PIPE), AND TRIP IN THE HOLE TO 1,000'.
	22:30 - 0:00	1.50	DRLPRO	09	A	P		SLIP AND CUT 66' OF DRILL LINE.
2/8/2012	0:00 - 4:45	4.75	DRLPRO	06	A	P		TRIP BACK IN THE HOLE TO 5,900'
	4:45 - 5:30	0.75	DRLPRO	03	E	P		HIT A BRIDGE @ 5,900' WASH AND REAM TO BOTTOM FROM THERE.
	5:30 - 12:00	6.50	DRLPRO	02	D	P		DRILL SLIDE 6,244'-6,719' (475', 73'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 55. DHRPM 109. SPM 115 GPM-517. ON/OFF PSI 2117/1862. 250 DIFF. TORQUE ON/OFF 7488/3565. STRING WT UP/DOWN/ROT 150/111/123. DRAG 27 K. SLIDE 41' @ 40'/HR. SLIDE 10% ROT 90%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 40 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION.
	12:00 - 0:00	12.00	DRLPRO	02	D	P		DRILL SLIDE 6,719'-7,514' (795', 66'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 55. DHRPM 109. SPM 115 GPM-517. ON/OFF PSI 2200/1950. 250 DIFF. TORQUE ON/OFF 8576/3378. STRING WT UP/DOWN/ROT 170/120/144. DRAG 26 K. SLIDE 165' @ 40'/HR. SLIDE 25% ROT 75%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ DIRTY WATER. USED 60 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 50 BBLS DRILL WATER INTO FORMATION.

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

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

Event: DRILLING

Start Date: 11/21/2011

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/9/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 7,514'-8,034' (795', 66'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 50. DHRPM 109. SPM 115 GPM-517. ON/OFF PSI 2231/1808. 400 DIFF. TORQUE ON/OFF 11166/5977. STRING WT UP/DOWN/ROT 170/120/144. DRAG 26 K. SLIDE 165' @ 40'/HR. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 30 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 25 BBLS DRILL WATER INTO FORMATION.
	6:00 - 11:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 8,034'-8,458' (424', 77'/HR) WOB 18-24K. AVERAGE WOB-23K. RPM 50. DHRPM 109. SPM 115 GPM-517. ON/OFF PSI 2321/1873. 400 DIFF. TORQUE ON/OFF 10056/6000. STRING WT UP/DOWN/ROT 174/125/150. DRAG 24 K. FULL CIRC. RUNNING CENTRIFUGES, DRILLING W/ DIRTY WATER. USED 20 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 10 BBLS DRILL WATER INTO FORMATION.
	11:30 - 13:30	2.00	DRLPRO	08	B	Z		BLEW A HOLE IN SURFACE LINE TO THE STAND PIPE, LEAVING US UNABLE TO CIRCULATE, PULL 4 JOINTS OFF BOTTOM AND WORK STRING UP DOWN AND ROTATE.
	13:30 - 18:00	4.50	DRLPRO	22	A	X		ONCE PUMP WAS REPAIRED WE COULD NOT REGAIN CIRCULATION, TRIED TO WORK STRING DOWN THROUGH TIGHT HOLE AND REGAIN CIRCULATION, TORQUE BEGAN TO MAX OUT AND WE BECAME PACKED OFF (STUCK).
	18:00 - 21:00	3.00	DRLPRO	22	A	X		WORK STRING DOWN ROTATE AS MUCH AS POSSIBLE WHILE WAITING ON FREE POINT, AND FISHING TOOLS. DISPLACED LIGHT MUD OUT OF MUD TANKS WITH 11.3# 40-VIS KILL MUD.
	21:00 - 0:00	3.00	DRLPRO	22	A	X		WHILE PREPPING TO FREE POINT THE FISH BECAME FREE ALLOWING US TO PULL PIPE PULLED 5 MORE JOINT'S.
2/10/2012	0:00 - 2:00	2.00	DRLPRO	22	A	X		WHILE PREPPING TO FREE POINT THE FISH BECAME FREE ALLOWING US TO PULL PIPE, PULLED 5 MORE JOINT'S.
	2:00 - 14:00	12.00	DRLPRO	08	A	Z		WHILE PULLING PIPE FROM TIGHT HOLE THE DRAW WORKS TRIPPED THE ELECTRICAL BREAKER ALLOWING THE BLOCKS FREE FALL ONTO THE FLOOR. THE DRILLER HIT THE EMERGENCY STOP BUTTON TWICE, AND THE BRAKE FAILED TO STOP THE BLOCKS AND THE TOP DRIVE. THE SUPER INTENDENT FOR THE RIG CAME OUT AND INSPECTED EVERYTHING THEY CAME TO THE CONCLUSION THAT THE EMERGENCY BRAKE NEEDED TO BE ADJUSTED CORRECTLY.
	14:00 - 19:30	5.50	DRLPRO	06	A	X		THE DRILL STRING WAS FREE BUT PLUGGED SO WE TRIPPED OUT TO FIND THE PROBLEM. SERVICED THE RIG.
	19:30 - 20:00	0.50	DRLPRO	07	A	P		
	20:00 - 21:00	1.00	DRLPRO	08	A	Z		ADJUSTED THE PREASSURE SWITCH ON THE DRAW WORKS. TRYING TO GET THE DRAW WORKS TO SHIFT GEARS.
	21:00 - 0:00	3.00	DRLPRO	06	A	X		TRIP OUT TO FIND OUT WHY WE CANNOT CIRCULATE.

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

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

Event: DRILLING

Start Date: 11/21/2011

End Date: 2/13/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/11/2012	0:00 - 3:30	3.50	DRLPRO	06	A	X		TRIP OUT TO UNPLUG DRILL STRING, MUD MOTOR PLUGGED WONT DRAIN
	3:30 - 5:30	2.00	DRLPRO	06	A	P		LAY DOWN PLUGGED MOTOR PICK UP NEW MOTOR
	5:30 - 16:30	11.00	DRLPRO	06	A	P		TRIP IN HOLE HIT BRIDGES @ 4465', 4480', 4520', 4642', 4984', 6515', 6740', 7951'.
	16:30 - 18:30	2.00	DRLPRO	03	E	P		WASH AND REAM FROM 7,951' TO BOTTOM.
	18:30 - 22:00	3.50	DRLPRO	02	D	P		DRILL SLIDE 8,458'-8,547' (89', 25'/HR) TD @ 02/11/2012 22:00 WOB 18-24K. AVERAGE WOB-23K. RPM 50. DHRPM 109. SPM 115 GPM-517. ON/OFF PSI 2713/22599. 500 DIFF. TORQUE ON/OFF 10056/6000. STRING WT UP/DOWN/ROT 174/125/150. DRAG 24 K.
	22:00 - 0:00	2.00	DRLPRO	05	A	P		CIRCULATE AND CONDITION HOLE FOR LOGGS. DUE TO EXTRA TRIPPING NOT DOING A WPER TRIP JUST COMMING OUT FOR LOGGS.
2/12/2012	0:00 - 3:00	3.00	DRLPRO	06	D	P		TRIP OUT PUMPING AND ROTATING FROM 8547' TO 7741'
	3:00 - 10:30	7.50	DRLPRO	06	D	P		TRIP OUT FOR LOGGS, DUE TO EXTRA TRIPPING NOT DOING A WPER TRIP. THE DRILL BIT WAS SEVIERLY UNDERGUAGED APPROXIMATLY 1 7/8" IN DIAMETER
	10:30 - 16:30	6.00	DRLPRO	11	E	P		HOLD SAFETY MEETING WITH RIG CREW/ HALLIBURTON LOGGERS RIG UP, RUN TRIPPLE COMBO LOGGS, LOGGERS DEPTH OF 8,490' LOGGED ALL THE WAY OUT.
	16:30 - 18:00	1.50	DRLPRO	12	A	P		HOLD SAFETY MEETING WITH RIG CREW, KIMZY CASING, TUBULAR SOLUTIONS. RIG UP TO RUN CASING
	18:00 - 0:00	6.00	DRLPRO	12	C	P		RUN 1-FLOAT SHOE AND 1-FLOAT COLLAR 85 JNTS OF 4.5 LT&C I-80 CASING, AND 15-CENTRALIZERS, 1 PUP JOINT LT&C I-80 TO MARK THE MESAVERDE, AND APPROXIMATLY 35 JOINTS OF DQX W/XOVER
2/13/2012	0:00 - 4:00	4.00	DRLPRO	12	C	P		RUN 4.5 CASING.202 JOINTS 1 PUP JNT / 1 CROSSOVER JNT. WITH THE SHOE @ 8545.58 FC @ 8500.38
	4:00 - 6:00	2.00	CSG	05	A	P		CIRC OUT GAS. MUD WT 11.3 VIS 43. HOLD SAFETY MEETING AND RIG DOWN KIMZEY CSG. HOLD SAFETY MEETING W/ HALLIBURTON.
	6:00 - 10:00	4.00	CSG	12	E	P		PRESSURE TEST TO 5000 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 150 BBLS (433 SX) OF 12.0 PPG 2.26 YD 12.48 GAL/SK OF LEAD CEMENT. PUMP 336 BBLS (1,495 SX) OF 14.3# 1.31 YD 5.91 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 132 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. FULL RETURNS WITH 10 BBLS OF WATER AND NO CEMENT. LIFT PSI OF 2200 / BUMP PLUG 2900 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 57', EST TOC FOR TAIL 4790". RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER. BLOW OUT MUD LINES.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

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

Event: DRILLING

Start Date: 11/21/2011

End Date: 2/13/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 13:00	3.00	MIRU	14	A	P		HELD S/M WITH STRATA NIPPLE DOWN STRATA EQUIPMENT,ORBIT VALVE INSIDE CHOKE VALVE,ROT CLAMP.
	13:00 - 14:00	1.00	PRPSD	14	A	P		NIPPLE DOWN FLOWLINE. P/U STACK. SET SLIPS UNDER STACK @ 104 K. CUT OF CSG. TRANSFER MUD. CLEAN SOLIDS OUT W/ SOLIDS CONTROL. (750 BBLs OF 11.4# MUD IN STORAGE AND 110 BBLs OF MUD STORED IN PILLTANK.) RELEASE RIG 02/13/2012 14:00.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6F1AS RED	Wellbore No.	OH
Well Name	BONANZA 1023-6F1AS	Wellbore Name	BONANZA 1023-6F1AS
Report No.	1	Report Date	4/18/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-6F PAD
Rig Name/No.		Event	COMPLETION
Start Date	5/3/2012	End Date	5/3/2012
Spud Date	12/21/2011	Active Datum	RKB @5,138.00usft (above Mean Sea Level)
UWI	SE/NW/0/10/S/23/E/6/0/0/28/PM/N/1860/W/0/2067/0/0		

1.3 General

Contractor	CASED HOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	ED GUDAC
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	5,418.0 (usft)-8,387.0 (usft)	Start Date/Time	4/23/2012 12:00AM
No. of Intervals	30	End Date/Time	4/23/2012 12:00AM
Total Shots	209	Net Perforation Interval	63.00 (usft)
Avg Shot Density	3.32 (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
4/23/2012 12:00AM	WASATCH/			5,418.0	5,424.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

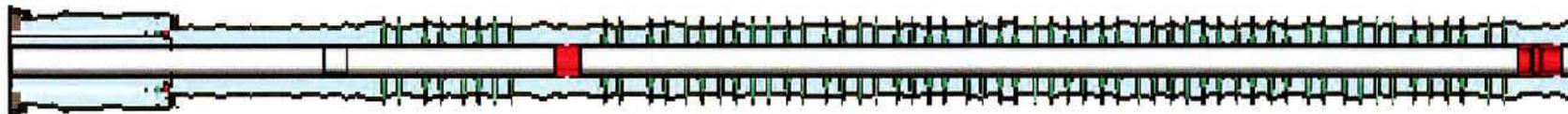
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/23/2012 12:00AM	WASATCH/			5,602.0	5,604.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	WASATCH/			5,708.0	5,710.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	WASATCH/			5,728.0	5,731.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			6,628.0	6,634.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			6,877.0	6,878.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			6,946.0	6,947.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			6,998.0	6,999.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,020.0	7,022.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,080.0	7,083.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,214.0	7,215.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,254.0	7,256.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,354.0	7,356.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,376.0	7,378.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,492.0	7,493.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,520.0	7,521.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,586.0	7,587.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,614.0	7,616.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,670.0	7,673.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,740.0	7,741.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,766.0	7,768.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,788.0	7,790.0	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
4/23/2012 12:00AM	MESAVERDE/			7,812.0	7,815.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,866.0	7,867.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			7,960.0	7,961.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			8,064.0	8,067.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			8,080.0	8,082.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			8,174.0	8,175.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			8,203.0	8,205.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/23/2012 12:00AM	MESAVERDE/			8,384.0	8,387.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 5/3/2012

End Date: 5/3/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/18/2012	-							
4/20/2012	7:00 - 9:00	2.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 15 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 16 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 65 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL.
	9:00 - 12:00	3.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
4/23/2012	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES & WL AWAIRNES

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED		Spud Date: 12/21/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-6F PAD	Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION		Start Date: 5/3/2012	End Date: 5/3/2012
Active Datum: RKB @5,138.00usft (above Mean Sea Level)		UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:30 - 18:00	9.50	COMP	36	B	P		<p>FRAC STG 1)WHP 511 PSI, BRK 3768 PSI @ 5.4 BPM. ISIP 2532 PSI, FG .74. CALC PERFS OPEN @ 49.7 BPM @ 5225 PSI = 92% HOLES OPEN. (22/24 HOLES OPEN) ISIP 2343 PSI, FG .72, NPI -189 PSI. MP 6160 PSI, MR 50.2 BPM, AP 4459 PSI, AR 49.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8112' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1649 PSI, BRK 4805 PSI @ 5.0 BPM. ISIP 2199 PSI, FG .71. CALC PERFS OPEN @ 49.1 BPM @ 4605 PSI = 100% HOLES OPEN. (21/21 HOLES OPEN) ISIP 2485 PSI, FG .75, NPI 286 PSI. MP 5019 PSI, MR 51.4 BPM, AP 4208 PSI, AR 50.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7845' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 416 PSI, BRK 2118 PSI @ 4.7 BPM. ISIP 1412 PSI, FG .62. CALC PERFS OPEN @ 50.2 BPM @ 3824 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2029 PSI, FG .70, NPI 617 PSI. MP 3968 PSI, MR 50.5 BPM, AP 3456 PSI, AR 50.1 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7703' P/U PERF AS PER DESIGN. POOH. SWFN.</p>

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 5/3/2012

End Date: 5/3/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/24/2012	9:00 - 18:00	9.00	COMP	36	B	P		<p>FRAC STG 4)WHP 1082 PSI, BRK 1593 PSI @ 5.0 BPM. ISIP 1192 PSI, FG .60 CALC PERFS OPEN @ 57.6 BPM @ 4197 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2012 PSI, FG .70, NPI 820 PSI. MP 4499 PSI, MR 58.5 BPM, AP 3816 PSI, AR 57.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7408' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 540 PSI, BRK 2194 PSI @ 4.9 BPM. ISIP 1601 PSI, FG .66. CALC PERFS OPEN @ 57.7 BPM @ 4722 PSI = 100% HOLES OPEN. (23/23 HOLES OPEN) ISIP 2002 PSI, FG .71, NPI 401 PSI. MP 5627 PSI, MR 58.2 BPM, AP 4338 PSI, AR 57.8 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7113' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW. HSM. HIGH PSI LINES</p>
4/25/2012	6:45 - 7:00	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED

Spud Date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 5/3/2012

End Date: 5/3/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/3/2012	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG 6)WHP 784 PSI, BRK 2044 PSI @ 5.2 BPM. ISIP 1322 PSI, FG .63. CALC PERFS OPEN @ 57.3 BPM @ 4911 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2417 PSI, FG .78, NPI 1095 PSI. MP 5025 PSI, MR 58.6 BPM, AP 4387 PSI, AR 58.1 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6664' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 2790 PSI, BRK 1169 PSI @ 5.1 BPM. ISIP 1169 PSI, FG .61. CALC PERFS OPEN @ 58.4 BPM @ 3959 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2106 PSI, FG .76, NPI 937 PSI. MP 4250 PSI, MR 58.8 BPM, AP 3881 PSI, AR 58.4 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>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 @ 5761' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8) WHP 84 PSI, BRK 1682 PSI @ 5 BPM. ISIP 965 PSI, FG .61. CALC PERFS OPEN @ 58.5 BPM @ 3203 PSI = 100% HOLES OPEN. (21/21 HOLES OPEN) ISIP 1474 PSI, FG .70, NPI 509 PSI. MP 3446 PSI, MR 59 BPM, AP 3119 PSI, AR 58.4 BPM, PUMPED 30/50 OWATTA SAND. SWI</p> <p>PERF STG 9) PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5454' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 9) WHP 342 PSI, BRK 1655 PSI @ 4.2 BPM. ISIP 382 PSI, FG .51. DID NOT FRAC THIS STG DUE TO LOW F.G.</p> <p>*** DID NOT SET KILL PLUG IN THIS WELL.</p> <p>TOTAL SAND = 178,889 LBS TOTAL CLFL = 8157 BBLS JSA= TUBING TRAILER SAFETY</p>
5/3/2012	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED		Spud Date: 12/21/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-6F PAD	Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION		Start Date: 5/3/2012	End Date: 5/3/2012
Active Datum: RKB @5,138.00usft (above Mean Sea Level)		UWI: SE/NW0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	30		P		<p>SPOT IN TUBING TALLY & PU TUBING TAG 1ST PLUG @ 5440' EST CIRC TEST BOPS TO 3000#</p> <p>PLUG #1] DRILL THRU HALLI 8K CBP @ 5440' IN 7 MIN W/ 0 INCREASE (LOST CIRC)</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 5740' (16' FILL) C/O & DRILL THRU HALLI 8K CBP @ 5756' IN 7 MIN W/ 100# INCREASE</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 6639' (15' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6654' IN 6 MIN W/ 50# INCREASE</p> <p>PLUG #4] CONTINUE TO RIH TAG SAND @ 7086' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7106' IN 5 MIN W/ 100# INCREASE</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 7381' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7401' IN 8 MIN W/ 200# INCREASE</p> <p>PLUG #6] CONTINUE TO RIH TAG SAND @ 7677' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7697' IN 7 MIN W/ 100# INCREASE</p> <p>PLUG #7] CONTINUE TO RIH TAG SAND @ 7805' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7835' IN 6 MIN W/ 50# INCREASE</p> <p>PLUG #8] CONTINUE TO RIH TAG SAND @ 8091' (10' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8101' IN 5 MIN W/ 0 INCREASE</p> <p>PBTD] CONTINUE TO RIH TAG SAND @ 8460' (40' FILL) C/O & DRILL TO PBTD @ 8500' CIRC CLEAN PUH LD 21 JNTS LAND TUBING ON HNGR W/ 247 JNTS EOT @ 7828.50' RD DRILLING EQUIP RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD DROP BALL PUMP OFF BIT @1500 PSI SIW NU & TEST FLOW LINE TURN WELL OVER TO FBC PREP TO RD MOVE IN AM SDFN</p> <p>TUBING DETAIL K.B.....15.00' HANGER.....83' 247 JNTS 2-3/8" L-80.....7810.47' POBS.....2.20' EOT@.....7828.50'</p> <p>TOTAL FLUID PUMPED= 8157 BBLS RIG REC= 2200 BBLS LEFT TO REC= 7828 BBLS</p> <p>CTAP DEL= 315 JNTS USED= 247 JNTS</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED Spud Date: 12/21/2011

Project: UTAH-UINTAH Site: BONANZA 1023-6F PAD Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION Start Date: 5/3/2012 End Date: 5/3/2012

Active Datum: RKB @5,138.00usft (above Mean Sea Level) UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:00 - 16:20		COMP	50				RETURNED= 68 JNTS WELL TURNED TO SALES@ 16:20 HR ON 5/3/2012-1400MCFD, 1680 BWP, FCP 1800#, FTP 1700#, 20/64"
5/4/2012	-							
5/5/2012	7:00 -			50				WELL IP'D ON 5/5/12 - 1703 MCFD, 0 BOPD, 0 BWP, CP 2013#, FTP 1336#, CK 20/64, LP 0#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023-6F1AS RED	Wellbore No.	OH
Well Name	BONANZA 1023-6F1AS	Common Name	BONANZA 1023-6F1AS
Project	UTAH-UINTAH	Site	BONANZA 1023-6F PAD
Vertical Section	44.38 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/206 7/0/0
Spud Date	12/21/2011		
Active Datum	RKB @5,138.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SCIENTIFIC DRILLING INTL
Started	12/20/2011	Ended	
Tool Name	EM	Engineer	Anadarko Employee

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
11.00	0.00	0.00	11.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
12/20/2011	Tie On	11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/25/2011	NORMAL	188.00	0.64	210.39	188.00	-0.85	-0.50	-0.96	0.36	0.36	0.00	210.39
	NORMAL	274.00	1.06	51.08	273.99	-0.77	-0.12	-0.64	1.95	0.49	-185.24	-167.07
12/26/2011	NORMAL	355.00	2.37	45.30	354.95	0.88	1.65	1.78	1.63	1.62	-7.14	-10.42
	NORMAL	445.00	3.81	43.70	444.82	4.35	5.04	6.63	1.60	1.60	-1.78	-4.23
	NORMAL	535.00	5.28	42.75	534.54	9.56	9.92	13.76	1.64	1.63	-1.06	-3.41
	NORMAL	625.00	6.49	44.43	624.06	16.23	16.29	22.99	1.36	1.34	1.87	8.94
	NORMAL	715.00	7.78	39.90	713.36	24.53	23.76	34.15	1.56	1.43	-5.03	-25.82
	NORMAL	805.00	8.91	40.95	802.41	34.47	32.23	47.18	1.27	1.26	1.17	8.20
	NORMAL	895.00	10.31	39.01	891.14	46.00	41.87	62.16	1.60	1.56	-2.16	-13.98
	NORMAL	985.00	10.79	39.27	979.62	58.78	52.27	78.57	0.54	0.53	0.29	5.79
	NORMAL	1,075.00	10.89	39.14	1,068.01	71.89	62.97	95.42	0.11	0.11	-0.14	-13.80
	NORMAL	1,165.00	10.48	44.10	1,156.46	84.36	74.03	112.08	1.12	-0.46	5.51	116.45
	NORMAL	1,255.00	11.25	44.48	1,244.84	96.51	85.88	129.04	0.86	0.86	0.42	5.50
	NORMAL	1,345.00	11.44	44.46	1,333.08	109.14	98.28	146.74	0.21	0.21	-0.02	-1.20
	NORMAL	1,436.00	12.22	40.22	1,422.15	122.93	110.82	165.37	1.28	0.86	-4.66	-50.19
	NORMAL	1,525.00	12.13	38.73	1,509.15	137.42	122.76	184.07	0.37	-0.10	-1.67	-106.71
	NORMAL	1,615.00	12.29	40.10	1,597.11	152.13	134.84	203.04	0.37	0.18	1.52	61.76

2.1.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
12/26/2011	NORMAL	1,705.00	12.10	34.00	1,685.09	167.27	146.29	221.87	1.45	-0.21	-6.78	-101.36
	NORMAL	1,795.00	10.68	33.66	1,773.31	182.04	156.18	239.34	1.58	-1.58	-0.38	-177.46
12/27/2011	NORMAL	1,885.00	10.44	32.75	1,861.79	195.83	165.22	255.52	0.32	-0.27	-1.01	-145.65
	NORMAL	1,975.00	9.30	36.97	1,950.46	208.50	174.00	270.72	1.50	-1.27	4.69	149.67
	NORMAL	2,065.00	9.57	40.50	2,039.24	220.00	183.24	285.40	0.71	0.30	3.92	66.73
	NORMAL	2,155.00	9.38	40.43	2,128.01	231.27	192.85	300.18	0.21	-0.21	-0.08	-176.56
	NORMAL	2,245.00	9.27	40.66	2,216.82	242.36	202.33	314.73	0.13	-0.12	0.26	161.40
	NORMAL	2,335.00	8.89	41.55	2,305.69	253.06	211.67	328.91	0.45	-0.42	0.99	160.15

2.2 Survey Name: PRODUCTION

Survey Name	PRODUCTION	Company	NATIVE NAVIGATION
Started	2/5/2012	Ended	
Tool Name	EM	Engineer	BEN/DAVE

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,335.00	8.89	41.55	2,305.69	253.06	211.67

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
2/5/2012	Tie On	2,335.00	8.89	41.55	2,305.69	253.06	211.67	328.91	0.00	0.00	0.00	0.00
2/5/2012	NORMAL	2,358.00	9.05	39.08	2,328.41	255.79	213.98	332.48	1.81	0.70	-10.74	-68.66
	NORMAL	2,449.00	8.48	38.28	2,418.35	266.62	222.65	346.28	0.64	-0.63	-0.88	-168.32
	NORMAL	2,540.00	8.39	44.00	2,508.37	276.66	231.42	359.59	0.93	-0.10	6.29	98.95
	NORMAL	2,631.00	8.66	42.77	2,598.36	286.46	240.69	373.08	0.36	0.30	-1.35	-34.64
	NORMAL	2,722.00	8.44	51.73	2,688.35	295.63	250.58	386.55	1.48	-0.24	9.85	103.79
	NORMAL	2,812.00	7.56	47.86	2,777.48	303.69	260.16	399.01	1.15	-0.98	-4.30	-150.44
	NORMAL	2,903.00	7.39	59.91	2,867.71	310.64	269.66	410.63	1.73	-0.19	13.24	102.14
	NORMAL	2,994.00	6.67	43.73	2,958.03	317.40	278.38	421.55	2.31	-0.79	-17.78	-117.89
	NORMAL	3,085.00	5.36	51.91	3,048.53	323.84	285.38	431.05	1.72	-1.44	8.99	150.82
	NORMAL	3,176.00	4.26	52.43	3,139.21	328.52	291.40	438.61	1.21	-1.21	0.57	177.99
	NORMAL	3,266.00	2.37	61.14	3,229.06	331.46	295.68	443.70	2.17	-2.10	9.68	169.40
	NORMAL	3,357.00	0.66	94.62	3,320.02	332.32	297.85	445.84	2.04	-1.88	36.79	168.68
	NORMAL	3,448.00	0.35	145.60	3,411.02	332.05	298.53	446.12	0.57	-0.34	56.02	148.26
	NORMAL	3,539.00	0.40	237.95	3,502.02	331.66	298.42	445.76	0.60	0.05	101.48	132.51
	NORMAL	3,630.00	0.48	205.80	3,593.02	331.14	297.98	445.09	0.28	0.09	-35.33	-88.57
	NORMAL	3,720.00	0.57	153.86	3,683.01	330.40	298.02	444.58	0.52	0.10	-57.71	-105.99
	NORMAL	3,811.00	0.57	166.87	3,774.01	329.56	298.32	444.19	0.14	0.00	14.30	96.50
	NORMAL	3,902.00	1.14	198.51	3,865.00	328.26	298.13	443.13	0.79	0.63	34.77	56.18
	NORMAL	3,993.00	0.13	311.45	3,955.99	327.47	297.77	442.31	1.32	-1.11	124.11	174.26
	NORMAL	4,083.00	0.48	212.22	4,045.99	327.21	297.49	441.94	0.57	0.39	-110.26	-113.60
	NORMAL	4,174.00	0.79	197.19	4,136.99	326.29	297.10	441.01	0.38	0.34	-16.52	-35.90
	NORMAL	4,265.00	0.83	190.77	4,227.98	325.05	296.79	439.90	0.11	0.04	-7.05	-69.45
	NORMAL	4,356.00	0.83	178.12	4,318.97	323.74	296.69	438.89	0.20	0.00	-13.90	-96.32
2/6/2012	NORMAL	4,447.00	0.26	221.36	4,409.96	322.93	296.58	438.23	0.73	-0.63	47.52	164.46
	NORMAL	4,537.00	0.40	345.02	4,499.96	323.08	296.36	438.19	0.65	0.16	137.40	145.35
	NORMAL	4,628.00	0.92	38.11	4,590.96	323.96	296.73	439.08	0.83	0.57	58.34	78.28
	NORMAL	4,719.00	0.48	19.91	4,681.95	324.89	297.31	440.15	0.54	-0.48	-20.00	-162.09
	NORMAL	4,810.00	0.88	30.73	4,772.94	325.85	297.80	441.18	0.46	0.44	11.89	23.26

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Build (%/100usft)	Turn (%/100usft)	TFace (°)
2/6/2012	NORMAL	4,901.00	0.75	50.15	4,863.93	326.83	298.61	442.45	0.33	-0.14	21.34	124.70
	NORMAL	4,991.00	0.75	66.41	4,953.93	327.45	299.60	443.58	0.24	0.00	18.07	98.13
	NORMAL	5,082.00	0.62	47.25	5,044.92	328.02	300.51	444.62	0.29	-0.14	-21.05	-128.93
	NORMAL	5,173.00	0.31	120.46	5,135.92	328.23	301.09	445.17	0.67	-0.34	80.45	150.77
	NORMAL	5,264.00	1.45	22.55	5,226.91	329.17	301.74	446.30	1.67	1.25	-107.59	-109.53
	NORMAL	5,355.00	1.49	38.20	5,317.88	331.16	302.91	448.55	0.44	0.04	17.20	92.17
	NORMAL	5,445.00	1.10	5.85	5,407.86	332.94	303.72	450.39	0.90	-0.43	-35.94	-133.61
	NORMAL	5,536.00	0.75	355.75	5,498.84	334.40	303.77	451.46	0.42	-0.38	-11.10	-160.01
	NORMAL	5,626.00	0.62	333.95	5,588.84	335.43	303.51	452.02	0.32	-0.14	-24.22	-127.13
	NORMAL	5,717.00	0.35	224.61	5,679.84	335.67	303.10	451.90	0.89	-0.30	-120.15	-155.83
2/7/2012	NORMAL	5,808.00	0.39	290.33	5,770.83	335.58	302.62	451.50	0.44	0.04	72.22	118.08
	NORMAL	5,899.00	0.75	205.98	5,861.83	335.15	302.06	450.81	0.89	0.40	-92.69	-112.96
	NORMAL	5,989.00	0.83	20.44	5,951.83	335.23	302.03	450.84	1.75	0.09	193.84	177.09
	NORMAL	6,080.00	0.88	181.55	6,042.82	335.15	302.24	450.93	1.85	0.05	177.04	170.28
	NORMAL	6,171.00	0.79	211.96	6,133.82	333.92	301.89	449.81	0.49	-0.10	33.42	116.42
2/8/2012	NORMAL	6,261.00	1.32	190.86	6,223.80	332.38	301.37	448.34	0.72	0.59	-23.44	-47.10
	NORMAL	6,352.00	1.05	199.65	6,314.78	330.56	300.89	446.71	0.36	-0.30	9.66	150.39
	NORMAL	6,443.00	1.01	180.32	6,405.77	328.98	300.61	445.37	0.38	-0.04	-21.24	-106.17
	NORMAL	6,534.00	1.19	154.56	6,496.75	327.32	301.01	444.47	0.57	0.20	-28.31	-83.19
	NORMAL	6,624.00	1.27	167.13	6,586.73	325.50	301.63	443.61	0.31	0.09	13.97	79.83
	NORMAL	6,715.00	1.10	153.33	6,677.71	323.74	302.25	442.78	0.36	-0.19	-15.16	-127.56
	NORMAL	6,806.00	1.23	156.23	6,768.69	322.07	303.03	442.13	0.16	0.14	3.19	25.85
	NORMAL	6,897.00	0.88	165.20	6,859.68	320.50	303.61	441.41	0.42	-0.38	9.86	159.18
	NORMAL	6,988.00	0.70	131.36	6,950.67	319.45	304.20	441.08	0.54	-0.20	-37.19	-127.45
	NORMAL	7,078.00	0.04	31.43	7,040.67	319.12	304.63	441.14	0.79	-0.73	-111.03	-176.81
	NORMAL	7,169.00	0.22	292.55	7,131.66	319.21	304.49	441.11	0.25	0.20	-108.66	-108.79
	NORMAL	7,260.00	0.62	331.57	7,222.66	319.71	304.09	441.19	0.52	0.44	42.88	56.16
	NORMAL	7,350.00	1.01	307.23	7,312.65	320.62	303.23	441.23	0.57	0.43	-27.04	-54.20
	NORMAL	7,441.00	0.62	290.71	7,403.64	321.28	302.13	440.94	0.50	-0.43	-18.15	-157.01
2/9/2012	NORMAL	7,532.00	0.04	145.69	7,494.64	321.43	301.69	440.73	0.72	-0.64	-159.36	-177.99
	NORMAL	7,623.00	0.26	185.85	7,585.64	321.19	301.68	440.56	0.25	0.24	44.13	46.58
	NORMAL	7,713.00	0.62	189.63	7,675.64	320.51	301.58	440.00	0.40	0.40	4.20	6.50
	NORMAL	7,804.00	0.79	172.93	7,766.63	319.40	301.58	439.21	0.29	0.19	-18.35	-58.95
	NORMAL	7,895.00	0.88	140.76	7,857.62	318.24	302.09	438.74	0.52	0.10	-35.35	-95.50
	NORMAL	7,986.00	1.49	134.17	7,948.60	316.87	303.39	438.67	0.69	0.67	-7.24	-15.90
	NORMAL	8,076.00	1.58	162.74	8,038.57	314.87	304.59	438.08	0.85	0.10	31.74	97.71
	NORMAL	8,167.00	1.89	145.95	8,129.53	312.43	305.81	437.19	0.65	0.34	-18.45	-67.20
	NORMAL	8,258.00	2.20	139.89	8,220.47	309.85	307.77	436.72	0.41	0.34	-6.66	-37.95
	NORMAL	8,349.00	2.68	146.21	8,311.39	306.75	310.08	436.11	0.60	0.53	6.95	32.45
	NORMAL	8,547.00	2.68	146.21	8,509.17	299.06	315.23	434.21	0.00	0.00	0.00	0.00

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	
Comments: 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	
Comments:							

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	
Comments:							

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: PONDEROSA
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: BONANZA 1023-6F1AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047514540000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6454	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1860 FNL 2067 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/1/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="WORKOVER"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>A WORKOVER/SCALE CLEANOUT HAS BEEN COMPLETED ON THE BONANZA 1023-6F1AS WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 09, 2016</p>		
NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUMBER 720 929-6808	TITLE Regulatory Specialist
SIGNATURE N/A		DATE 6/9/2016

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6F1AS RED			Spud date: 12/21/2011		
Project: UTAH-UINTAH		Site: BONANZA 1023-6F PAD		Rig name no.: ROCKY MOUNTAIN WELL SERVICE 1/1	
Event: WELL WORK EXPENSE		Start date: 5/25/2016		End date: 6/1/2016	
Active datum: RKB @5,138.00usft (above Mean Sea Level)			UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
4/26/2016	7:00 - 9:00	2.00	MAINT	35	F	P		RUN BLIND BOX RUN PLUG TO BOTTOM AND SEATED IN SEAT NIPPLE. FLUID LEVEL 6880 SEAT NIPPLE DEPTH 7828 SN TYPE TD (Max Depth) 7828
5/5/2016	7:00 - 12:00	5.00	MAINT	35		P		RUN JDC PULLING TOOL COULD NOT LATCH PLUG. RUN IMPRESSION NO MARKS ON IMPRESSION. RUN 3 PRONG COULD NOT LATCH PLUG FEELS LIKE IT WONT STAY LATCHED. RUN JDC PULLING TOOL HIT DOWN HARD FEELS LIKE IT TRYING TO LATCH. RUN OLD JDC PULLING TOOL HIT DOWN HARD SEVERAL TIMES PULLED PLUG HIT SEVERAL TIMES TO GET LOOSE. THERE WAS SWAB CUP RUBBER IN BETWEEN JDC AND PLUG. FLUID LEVEL 6470 SEAT NIPPLE DEPTH 7826 SN TYPE TD (Max Depth) 7826
5/9/2016	7:00 - 12:00	5.00	MAINT	35		P		WELL NAME: Bonanza 1023-6F1AS Job Code: 80012176 WINS #: ZID: ZMDM8 FOREMAN: V-4 Mike Merrill MECHANICAL: John Young SLICKLINE COMPANY Delsco Northwest Inc. SLICKLINE OPERATOR Harvey Horne/Ben Taylor/P1035 TEL.NUMBER: 435-823-4268 DATE: 5/9/2016 JOB DESCRIPTION SUCCESSFUL Traveled to location and rigged up on well. Ran in hole with scratcher and found well to be tight from 3850-4400ft and from 5300-6800ft and from 7000-7200ft, worked scratcher through all tight spots several times and worked through seat nipple and stacked out @ 8223ft. POOH and ran in hole with 1.904 broach and again worked through all tight spots several times and stacked out in seat nipple @ 7847ft. POOH and ran in hole with JDC and plug and stacked in seat nipple @ 7847ft, tried to sheer JDC. POOH and still had plug in tow. Ran back in hole and stacked out @ 7847ft and sheered JDC. POOH and rigged down and left well shut in.
5/17/2016	7:00 - 8:00	1.00	MAINT	40	B			1 TOTE 15% ACID, BIOCID, SOLVENT AND 49 BARRELS WATER DOWN CASING FOR BRIDGE
5/25/2016	12:00 - 15:00	3.00	MIRU	30	A	P		RIG UP EQUIPMENT. KILL WELL & UNLAND TBG
	15:00 - 17:00	2.00	MAINT	31	I	P		SCAN OUT W/ 93 JTS. SDFN
5/26/2016	6:45 - 7:00	0.25	MAINT	48	B	P		HSM/JSA

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6F1AS RED

Spud date: 12/21/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6F PAD

Rig name no.: ROCKY MOUNTAIN WELL SERVICE
1/1

Event: WELL WORK EXPENSE

Start date: 5/25/2016

End date: 6/1/2016

Active datum: RKB @5,138.00usft (above Mean Sea Level)

UWI: SE/NW/0/10/S/23/E/6/0/0/26/PM/N/1860/W/0/2067/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:00 - 9:00	2.00	MAINT	31	I	P		SCAN OUT W/ REMAINING TBG. REJECTED 191 JTS TOTAL. KEPT 53 YB JTS & 3 BB JTS. HEAVY EXTERNAL SCALE 209-211 & MED SCALE 212-246. HOLES IN JTS 210 & 246. SEVERAL BAD PINS DUE TO PITTING.
	9:00 - 14:30	5.50	MAINT	31	I	P		RIH W/ XN, POBS, MILL. 55 JTS YB/BB L-80 TBG. 171 JTS P-110 TBG.
5/31/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM, JSA
	7:00 - 9:30	2.50	MAINT	42	B	P		SICP = 720 PSI, SITP = 100 PSI. BLW WELL DWN. PUMP 5 BBLS DWN TBG. PRESSURE UP T/ 1500 PSI. BLEED OFF PSI. TBG WAS PLUGGED. RU SWAB EQUIP. MAKE 6 SWAB RUNS, SWAB TBG DRY. TBG STARTED FLOWING. PUMP TBG VOLUME & DIDN'T SEE ANY PSI. TBG WAS UNPLUGGED. RD SWAB EQUIP.
	9:30 - 16:00	6.50	MAINT	44	D	P		PU & RIH W/ 7 JTS TBG & TAG @ 7354'. RU DRL EQUIP. BRK CONV CIRC W/ FU (1hr 10 min T/ GET RETURNS) MILL DWN 3' T/ 7357' & FELL FREE. CONT RIH W/ TBG TAG @ 7870'. REGAIN CIRC CONT MILLING. MILL DWN T/ 8427' = 40' OF RAT HOLE. CIRC WELL CLEAN. RD DRL EQUIP.
	16:00 - 17:30	1.50	MAINT	31	I	P		POOH LD 23 JTS EXESS TBG. PU 4 1/16 TBG HNGR. LAND TBG W/ 188 JTS 2 3/8 P-110, 55 JTS 2 3/8 YB L-80, 1.875 XN W/ POBS, NEW EOT @ . DROP BALL & PUMP BIT OFF W/ 30 BBLS T-MAC. SWIFN.
6/1/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM, JSA
	7:00 - 8:30	1.50	MAINT	30	H	P		SICP = 720 PSI. SITP = 320 PSI. BLW DWN TBG. PUMP 10 BBLS. RU BROACH EQUIP. BROACH TBG T/ XN NIP @ 7704'. GOOD BROACH. POOH, RD BROACH EQUIP. ND BOP, NU WH. RACK OUT RIG EQUIP & RDMO RIG.
	8:30 - 13:30	5.00	MAINT	31	H	P		HOOK UP FU/N2 T/ TBG. UNLOAD WELL (55 min T/ GET RETURNS). SHUT DWN PUMPING. RDMO WTF FU/N2. PURGE CSG & TBG T/ FBT FOR OVER 2 HRS. SWI FOR PSI BUILD UP.