

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER BONANZA 1023-6I2AS
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	2192 FNL 644 FEL	SENE	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	2622 FSL 942 FEL	NENE	6	10.0 S	23.0 E	S
At Total Depth	2622 FSL 942 FEL	NENE	6	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 942		23. NUMBER OF ACRES IN DRILLING UNIT 516		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 566		26. PROPOSED DEPTH MD: 8548 TVD: 8483		
27. ELEVATION - GROUND LEVEL 5207		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 01/04/2011		EMAIL gina.becker@anadarko.com		
API NUMBER ASSIGNED 43047514630000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8548		
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	2080		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	0	28.0			

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

BONANZA 1023-6I2AS

Surface:	2192 FNL / 644 FEL	SENE
BHL:	2622 FSL / 942 FEL	NESE

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	1213	
Birds Nest	1471	Water
Mahogany	1829	Water
Wasatch	4209	Gas
Mesaverde	6332	Gas
MVU2	7293	Gas
MVL1	7847	Gas
TVD	8483	
MD	8548	

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 8,483' TVD, approximately equals 5,197 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,331 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 2,080	28.00	IJ-55	LTC	0.98	1.93	5.92
PRODUCTION	4-1/2"	0 to 8,548	11.60	I-80	BTC	2.27	1.20	3.21

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

D.F. = 2.59

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 3,331 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 5,197 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	1,580'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	150	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,708'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	270	10%	11.00	3.38
	TAIL	4,840'	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:

Emile Goodwin / Perry Daughtrey

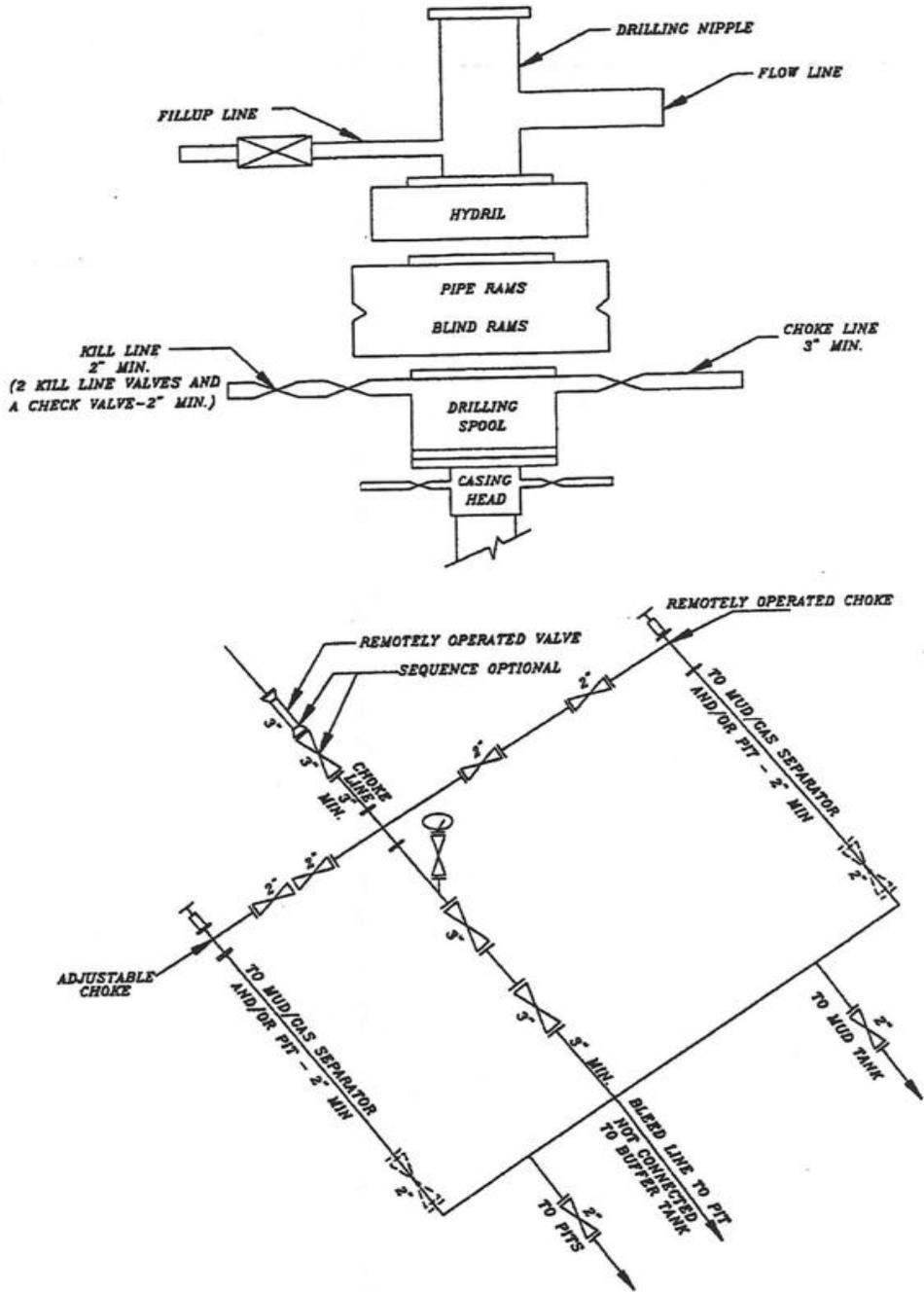
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

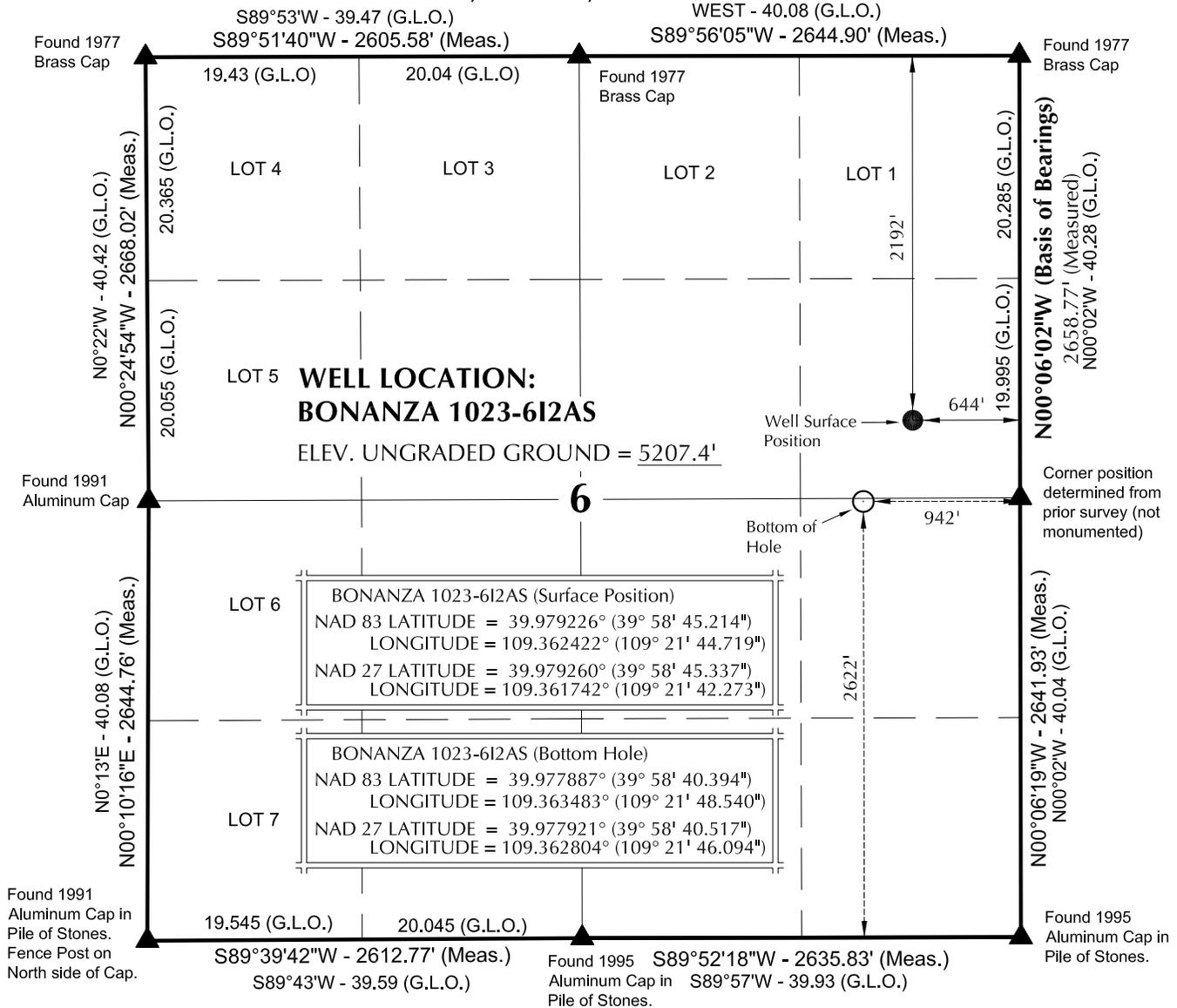
DATE:

EXHIBIT A BONANZA 1023-612AS



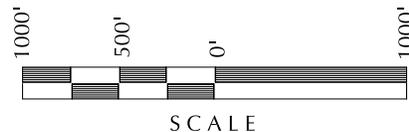
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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 S31°19'07"W 571.43' 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.

No. 6028691
JOHN R. SLAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION NO. 6028691
 STATE OF UTAH

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

WELL PAD - BONANZA 1023-6H

BONANZA 1023-6I2AS
WELL PLAT
 2622' FSL, 942' FEL (Bottom Hole)
 NE ¼ SE ¼ OF SECTION 6, T10S, R23E,
 S.L.B.&M., UTAH COUNTY, UTAH.



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

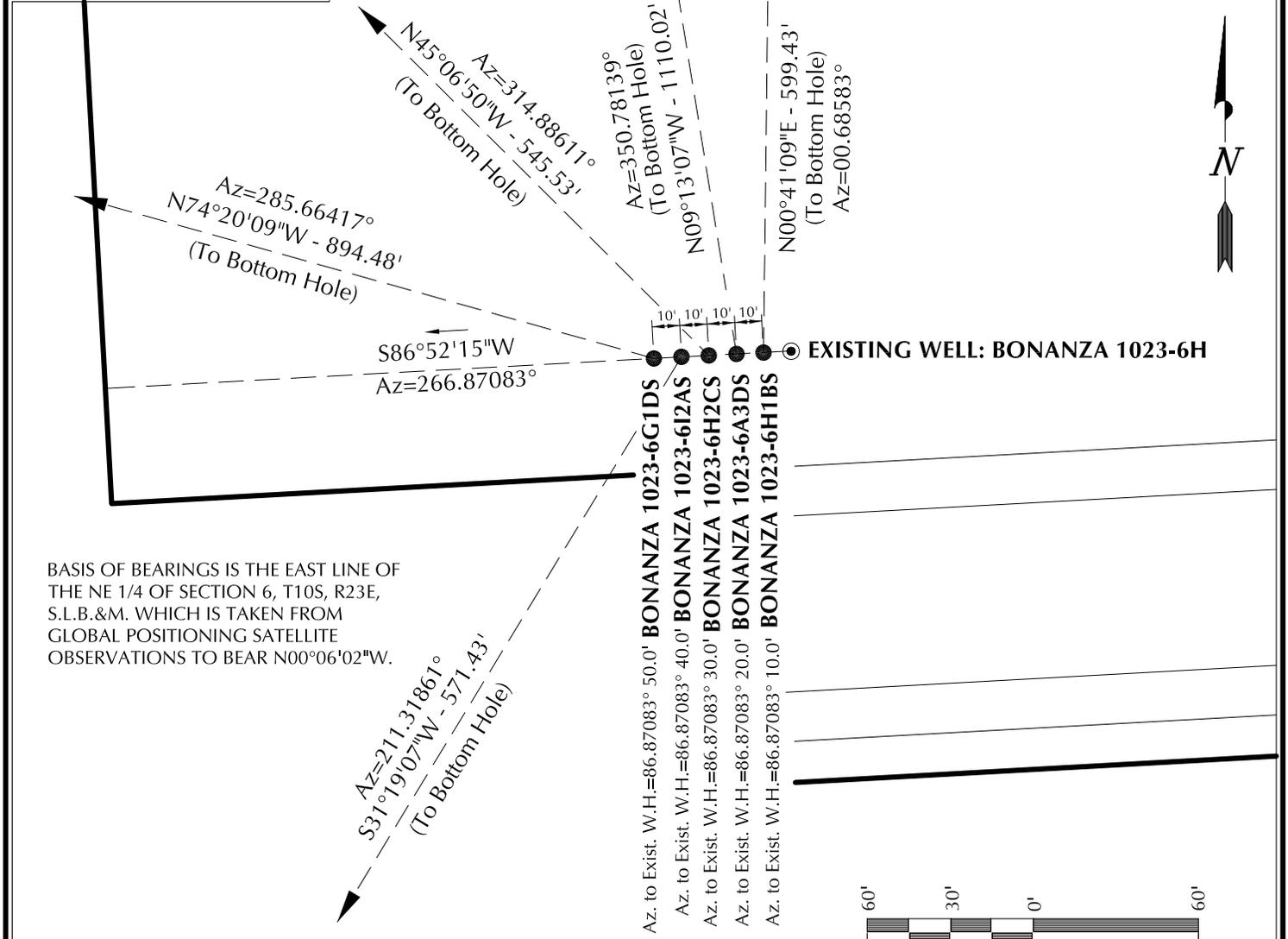
TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 3-3-10	SURVEYED BY: K.B.C.	SHEET NO: 2
DATE DRAWN: 3-4-10	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'		2 OF 17

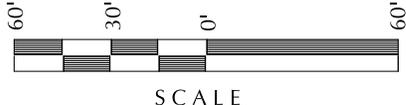
WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6G1DS	39°58'45.208"	109°21'44.848"	39°58'45.331"	109°21'42.402"	2193' FNL 654' FEL	39°58'47.604"	109°21'55.905"	39°58'47.727"	109°21'53.459"	1950' FNL 1515' FEL
BONANZA 1023-6I2AS	39°58'45.214"	109°21'44.719"	39°58'45.337"	109°21'42.273"	2192' FNL 644' FEL	39°58'40.394"	109°21'48.540"	39°58'40.517"	109°21'46.094"	2622' FSL 942' FEL
BONANZA 1023-6H2CS	39°58'45.219"	109°21'44.591"	39°58'45.342"	109°21'42.145"	2192' FNL 634' FEL	39°58'49.027"	109°21'49.549"	39°58'49.150"	109°21'47.103"	1806' FNL 1020' FEL
BONANZA 1023-6A3DS	39°58'45.224"	109°21'44.462"	39°58'45.347"	109°21'42.016"	2191' FNL 624' FEL	39°58'56.051"	109°21'46.730"	39°58'56.175"	109°21'44.283"	1095' FNL 800' FEL
BONANZA 1023-6H1BS	39°58'45.229"	109°21'44.335"	39°58'45.352"	109°21'41.889"	2191' FNL 614' FEL	39°58'51.151"	109°21'44.234"	39°58'51.274"	109°21'41.788"	1591' FNL 606' FEL
BONANZA 1023-6H	39°58'45.234"	109°21'44.206"	39°58'45.357"	109°21'41.760"	2190' FNL 604' FEL	39.980875°	109.362287°	39.980909°	109.361608°	

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 1023-6G1DS	241.5'	-861.3'	BONANZA 1023-6I2AS	-488.2'	-297.0'	BONANZA 1023-6H2CS	385.0'	-386.5'	BONANZA 1023-6A3DS	1095.7'	-177.8'
BONANZA 1023-6H1BS	599.4'	7.2'									



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



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

WELL PAD - BONANZA 1023-6H

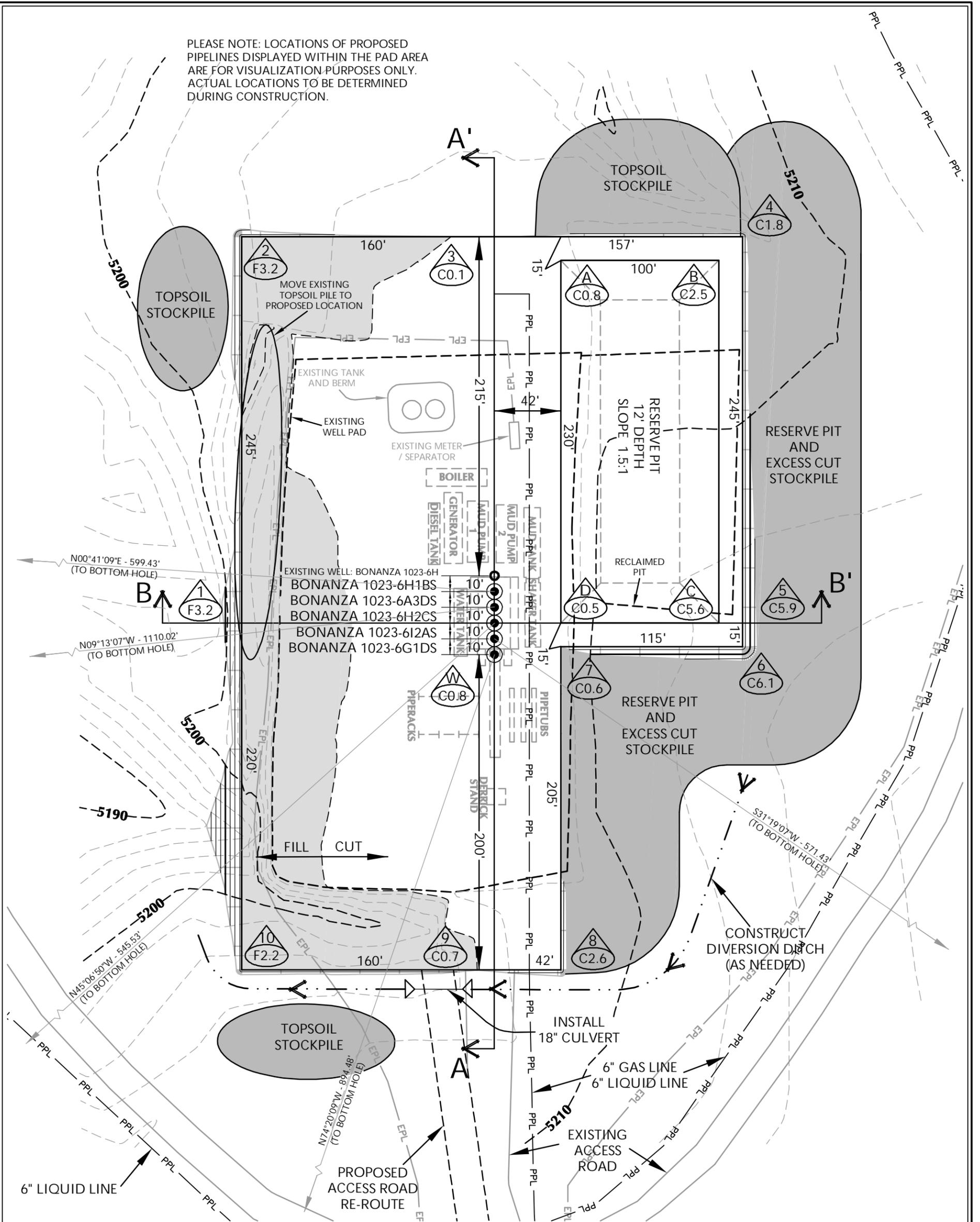
WELL PAD INTERFERENCE PLAT
WELLS - BONANZA 1023-6G1DS,
BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 3-3-10	SURVEYED BY: K.B.C.	SHEET NO: 6 6 OF 17
DATE DRAWN: 3-4-10	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised:	

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



WELL PAD - BONANZA 1023-6H DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5207.6'
 FINISHED GRADE ELEVATION = 5206.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.01 ACRES
 TOTAL DAMAGE AREA = 6.08 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 4,182 C.Y.
 TOTAL FILL FOR WELL PAD = 3,614 C.Y.
 TOPSOIL @ 6" DEPTH = 1,294 C.Y.
 EXCESS MATERIAL = 568 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT +/- 7,780 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 29,550 BARRELS

WELL PAD LEGEND

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



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

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

WELL PAD - BONANZA 1023-6H

WELL PAD - LOCATION LAYOUT
 BONANZA 1023-6G1DS,
 BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
 BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 LOCATED IN SECTION 6, T10S, R23E,
 S.L.B.&M., UINTAH COUNTY, UTAH



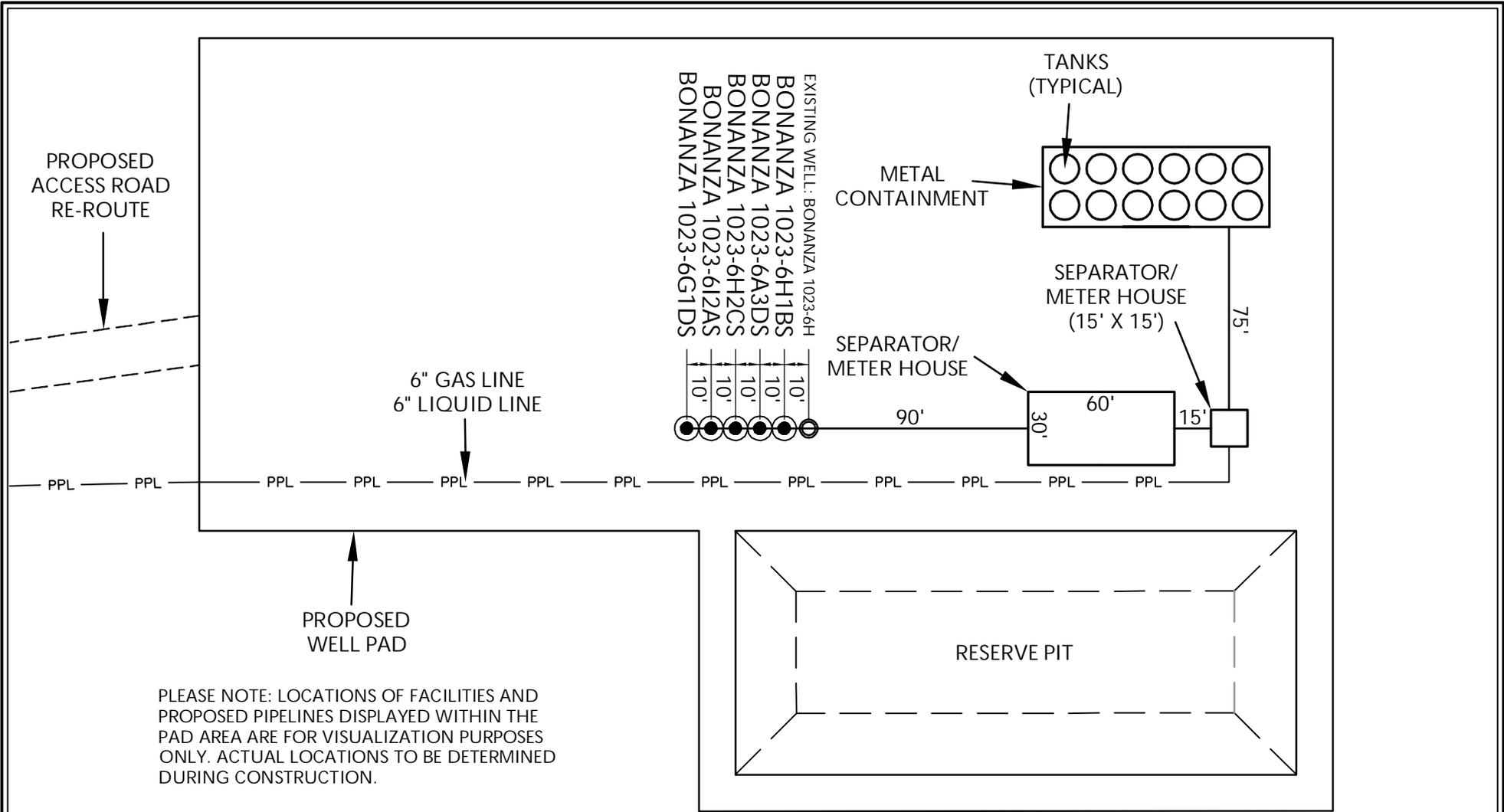
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 Fax 307-674-0182

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

(435) 789-1365

Scale: 1"=60' Date: 4/7/10 SHEET NO: 7
 REVISED: JFE 8/6/10 7 OF 17

'APIWELLINCo:43047514630000'
 C:\NAVA\BAY\30700_12_4\DWG\PROCESSED_2-1023-6H1BS\BONANZA_1023-6H1BS\BONANZA_1023-6H1BS\BONANZA_1023-6H1BS.dwg, 8/5/2010 11:46:05 PM



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

WELL PAD - BONANZA 1023-6H
WELL PAD - FACILITIES DIAGRAM
 BONANZA 1023-6G1DS,
 BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
 BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 LOCATED IN SECTION 6, T10S, R23E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

WELL PAD LEGEND

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



HORIZONTAL 0 30' 60' 1" = 60'

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

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

SHEET NO:
9
 9 OF 17

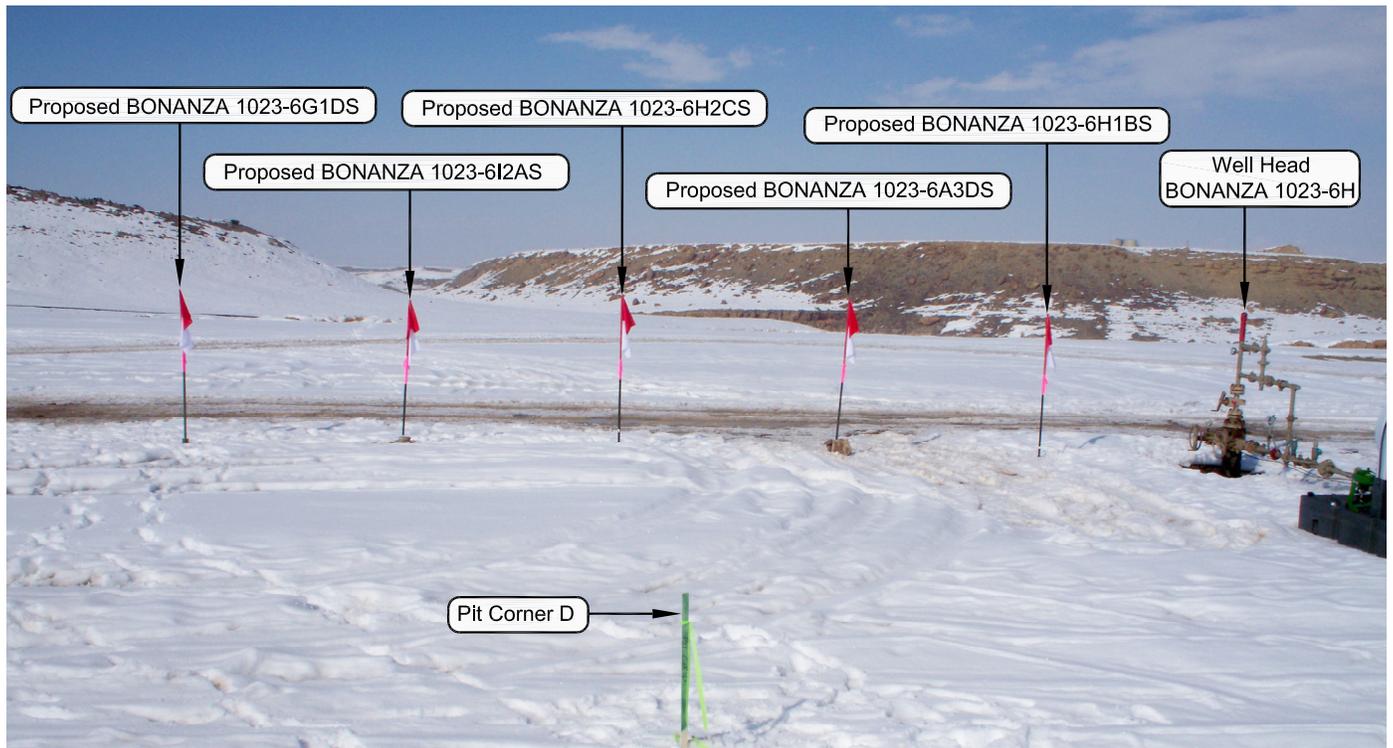


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

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

WELL PAD - BONANZA 1023-6H

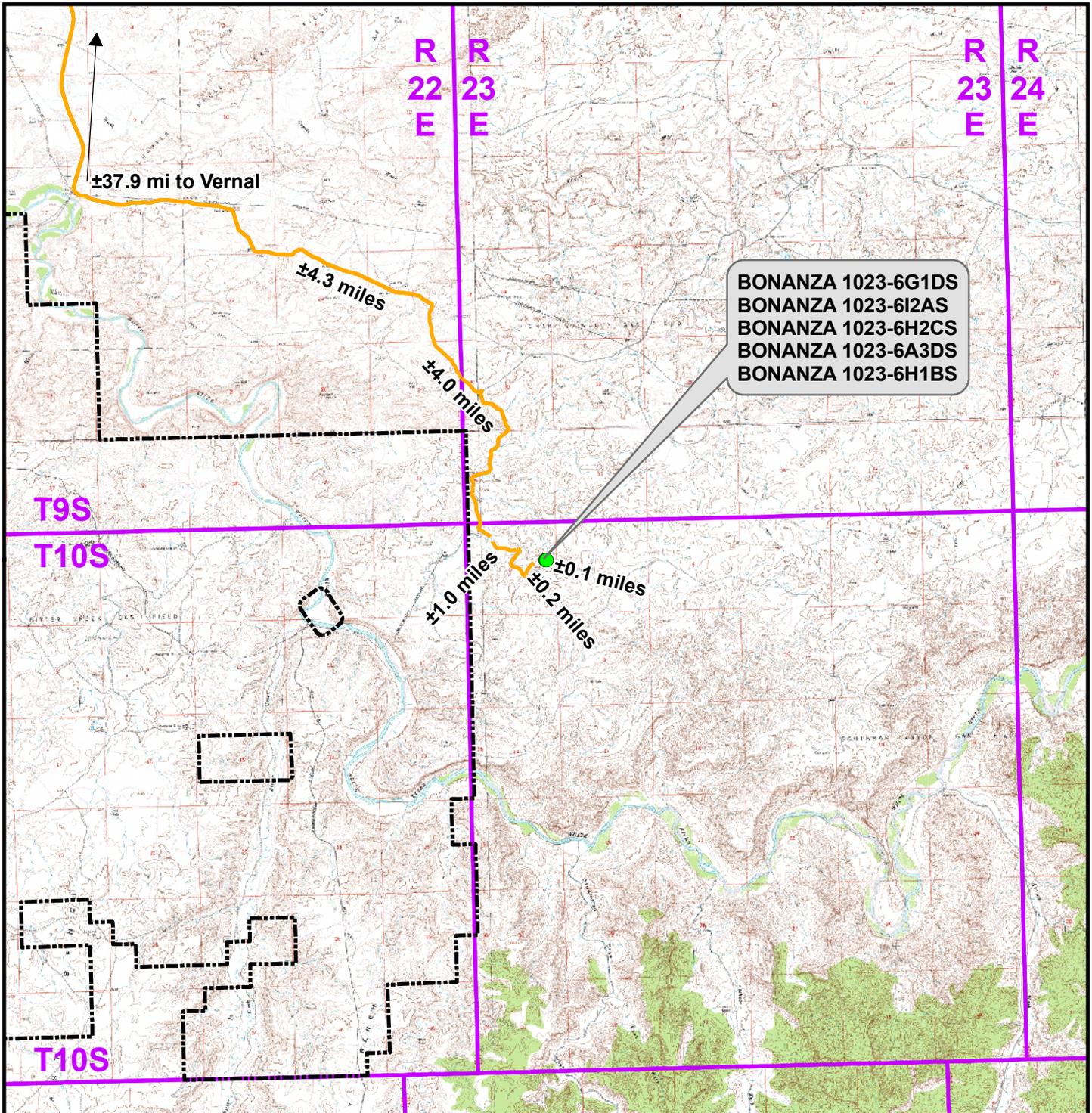
LOCATION PHOTOS
 BONANZA 1023-6G1DS,
 BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
 BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 LOCATED IN SECTION 6, T10S, R23E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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 PHOTOS TAKEN: 3-3-10	PHOTOS TAKEN BY: K.B.C.	SHEET NO: 10
DATE DRAWN: 3-4-10	DRAWN BY: M.W.W.	
Date Last Revised:		10 OF 17



Legend

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

Distance From Well Pad - BONANZA 1023-6H To Unit Boundary: ±4,583ft

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

WELL PAD - BONANZA 1023-6H

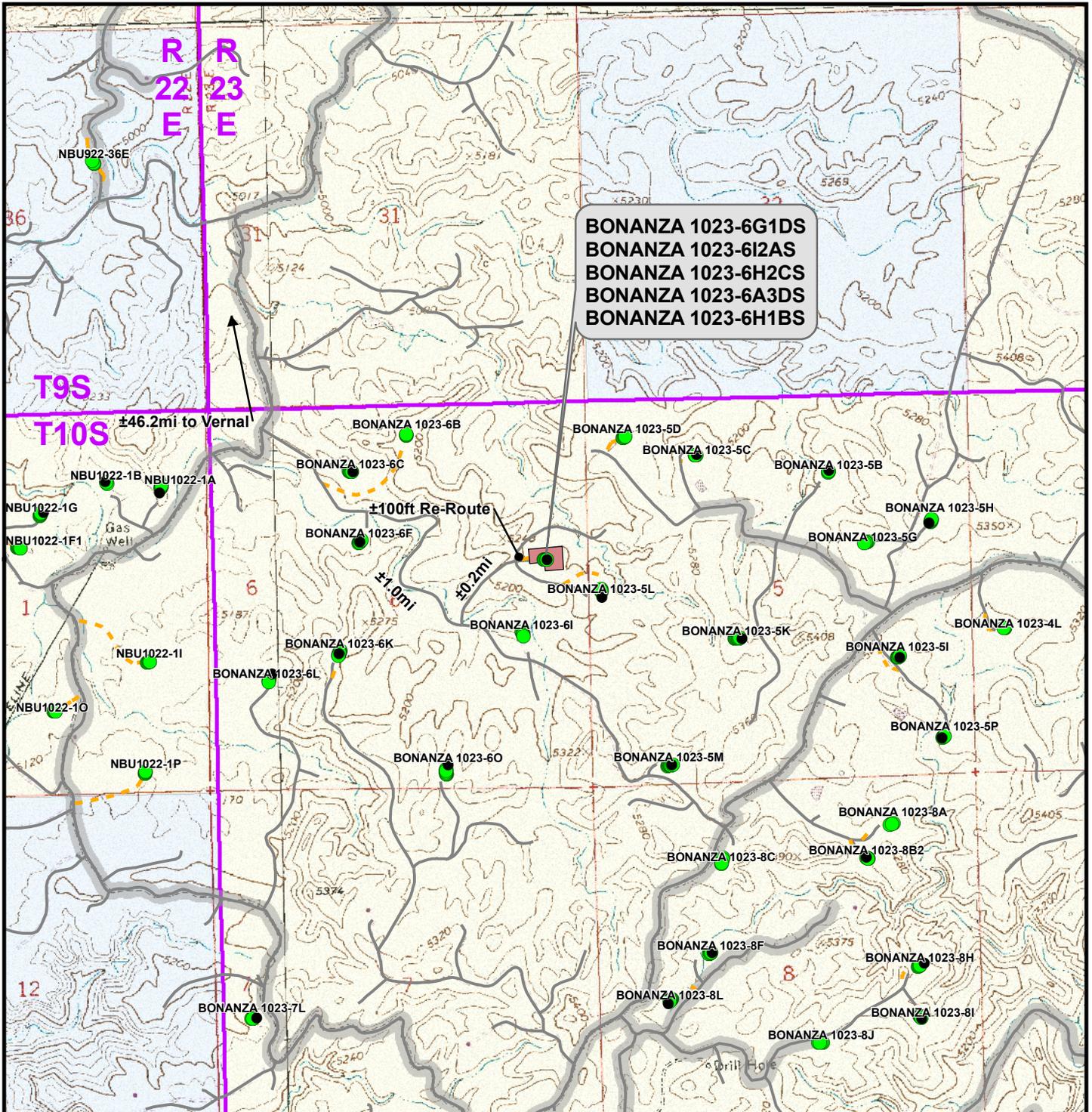
TOPO A
 BONANZA 1023-6G1DS,
 BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
 BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH



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 Sheridan, WY 82801
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 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 Apr 2010	11
Revised: JID	Date: 6 Aug 2010	



**BONANZA 1023-6G1DS
 BONANZA 1023-6I2AS
 BONANZA 1023-6H2CS
 BONANZA 1023-6A3DS
 BONANZA 1023-6H1BS**

Legend

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

Total Proposed Road Re-Route Length: ±100ft

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

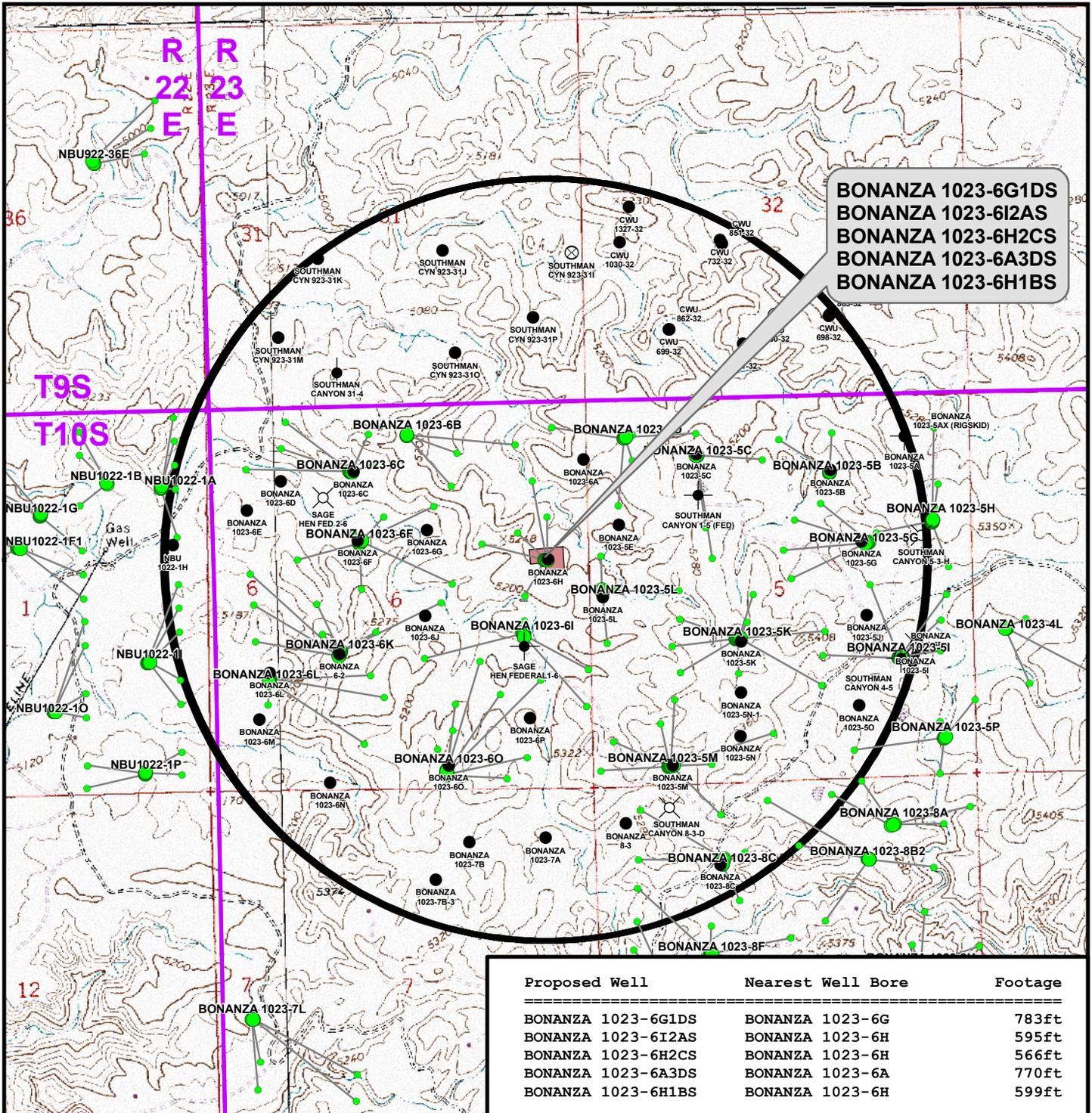
WELL PAD - BONANZA 1023-6H

TOPO B
BONANZA 1023-6G1DS,
BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 Apr 2010	12
Revised: JID	Date: 6 Aug 2010	



Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-6G1DS	BONANZA 1023-6G	783ft
BONANZA 1023-6I2AS	BONANZA 1023-6H	595ft
BONANZA 1023-6H2CS	BONANZA 1023-6H	566ft
BONANZA 1023-6A3DS	BONANZA 1023-6A	770ft
BONANZA 1023-6H1BS	BONANZA 1023-6H	599ft

Legend

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

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

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

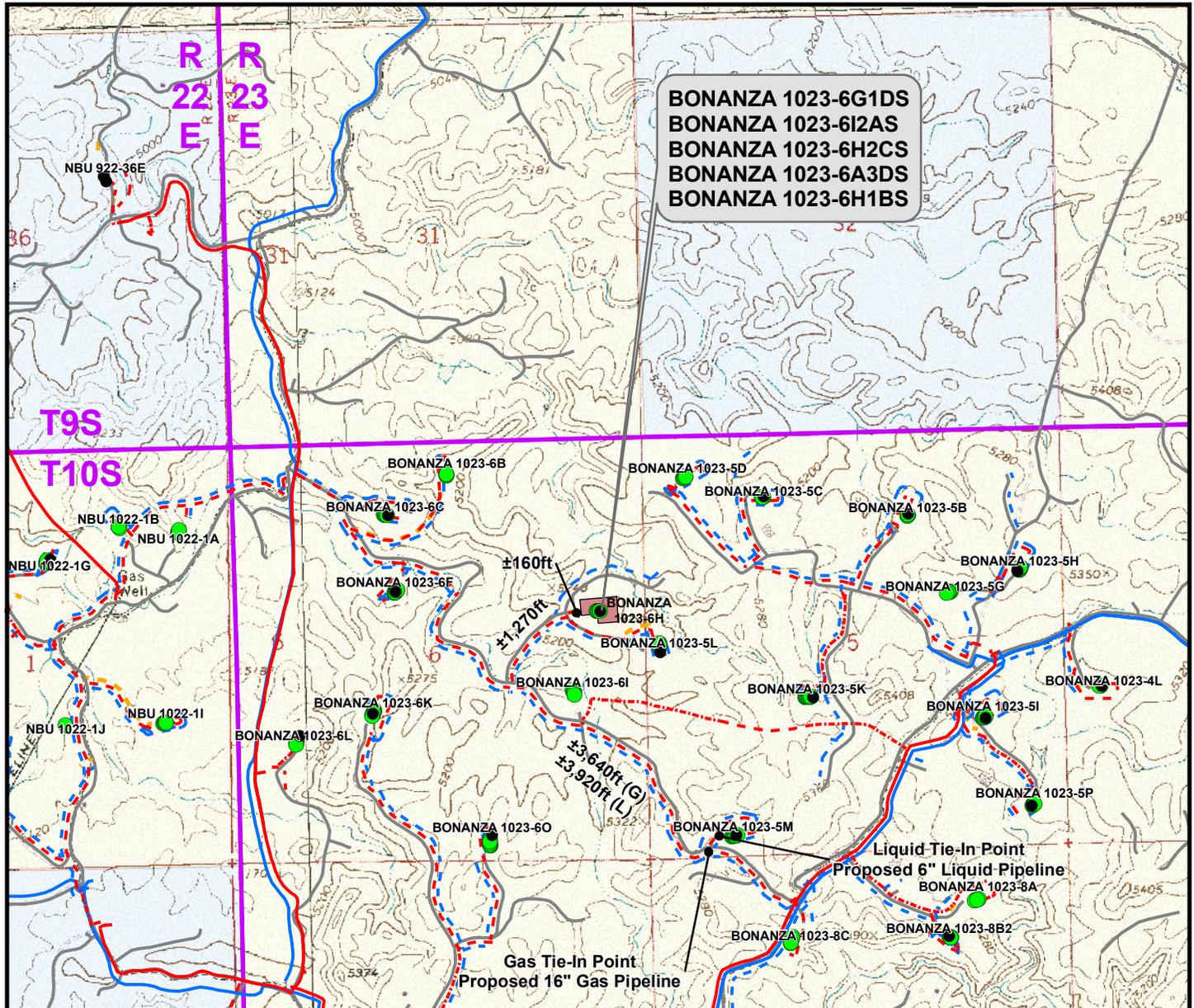
WELL PAD - BONANZA 1023-6H

TOPO C
BONANZA 1023-6G1DS,
BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±450ft	Proposed 6" (First Meter House to Edge of Pad)	±450ft
Proposed 6" (Edge of Pad to 5M Pad)	±5,350ft	Proposed 6" (Edge of Pad to 5L Intersection)	±160ft
		Proposed 10" (5L Intersection to Proposed 16" Pipeline)	±1,270ft
		Proposed 16" (Proposed 16" Pipeline to 5M Intersection)	±3,640ft
TOTAL PROPOSED LIQUID PIPELINE =	±5,800ft	TOTAL PROPOSED GAS PIPELINE =	±4,620ft

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 — Private

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

WELL PAD - BONANZA 1023-6H

TOPO D
 BONANZA 1023-6G1DS,
 BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
 BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

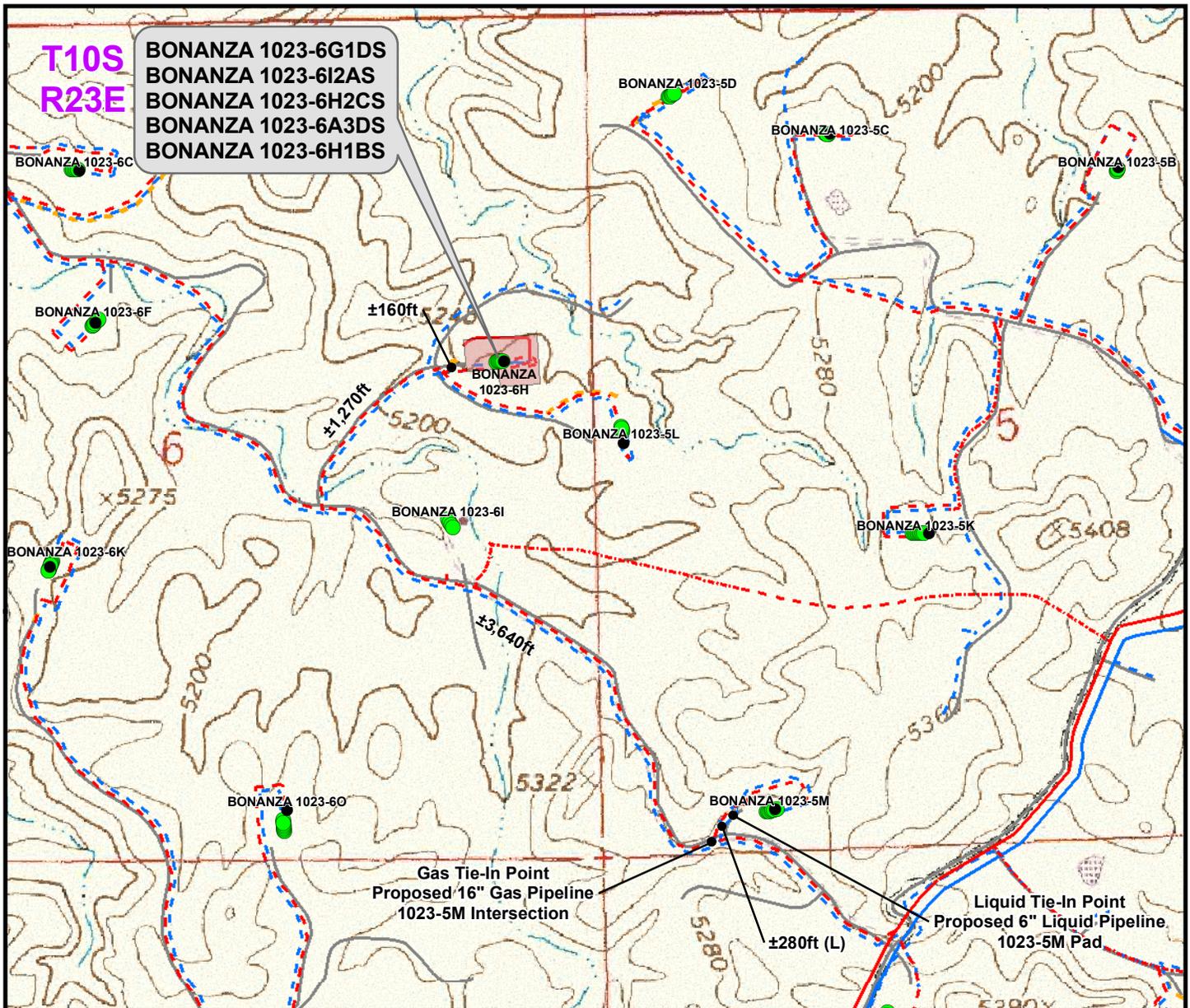
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 Apr 2010	14
Revised: CPS	Date: 15 Oct 2010	

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Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±450ft
Proposed 6" (Edge of Pad to 5M Pad)	±5,350ft
TOTAL PROPOSED LIQUID PIPELINE =	±5,800ft

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±450ft
Proposed 6" (Edge of Pad to 5L Intersection)	±160ft
Proposed 10" (5L Intersection to Proposed 16" Pipeline)	±1,270ft
Proposed 16" (Proposed 16" Pipeline to 5M Intersection)	±3,640ft
TOTAL PROPOSED GAS PIPELINE =	±4,620ft

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 1023-6H

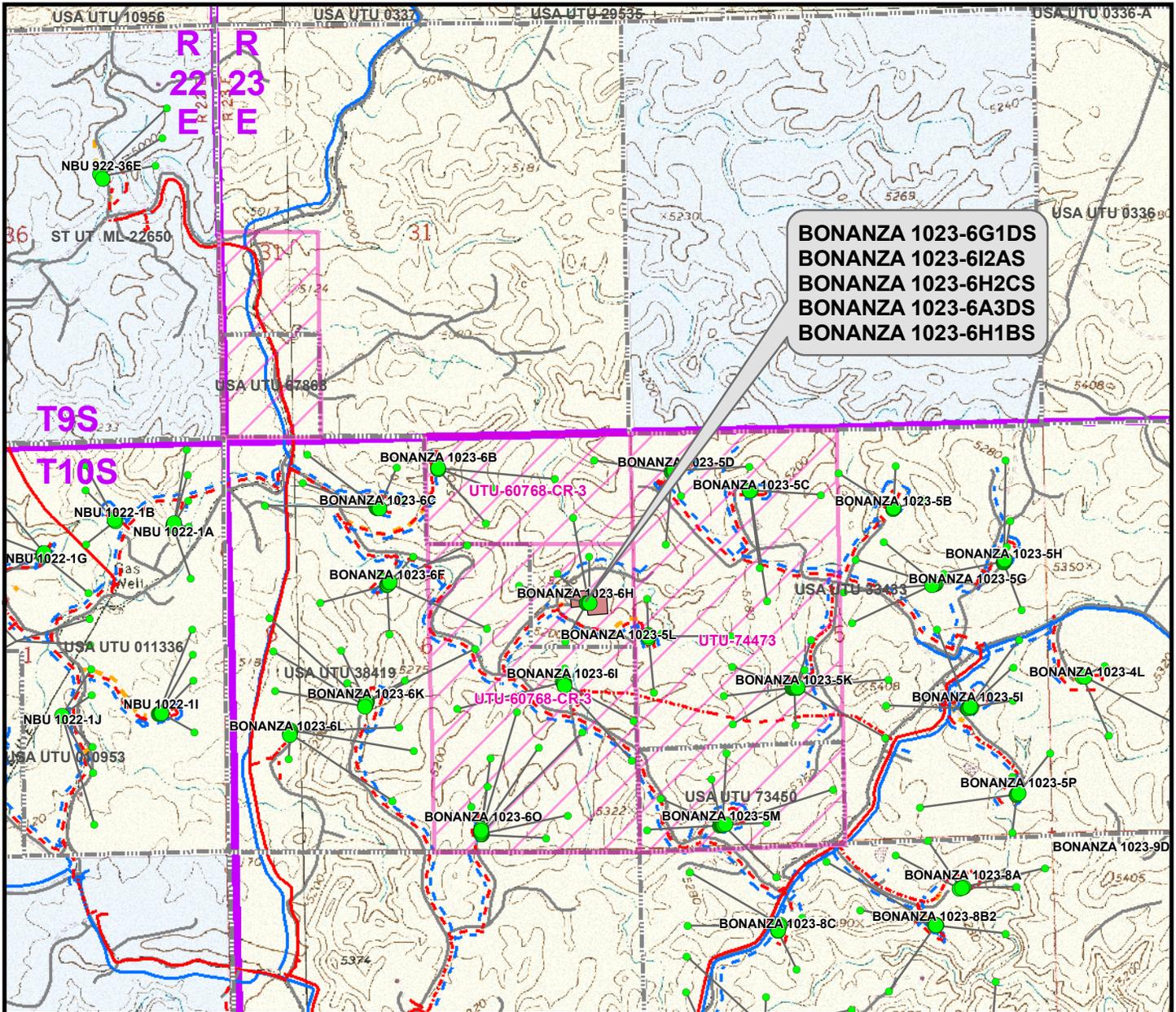
TOPO D2 (PAD & PIPELINE DETAIL)
BONANZA 1023-6G1DS,
BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1" = 1,000ft	NAD83 USP Central
Drawn: CPS	Date: 14 Apr 2010
Revised: CPS	Date: 14 Oct 2010

Sheet No:
15 15 of 17



**BONANZA 1023-6G1DS
 BONANZA 1023-6I2AS
 BONANZA 1023-6H2CS
 BONANZA 1023-6A3DS
 BONANZA 1023-6H1BS**

Proposed Well	Distance to Nearest CA Boundary
BONANZA 1023-6G1DS	1,126ft
BONANZA 1023-6I2AS	942ft
BONANZA 1023-6H2CS	1,020ft
BONANZA 1023-6A3DS	800ft
BONANZA 1023-6H1BS	606ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6G1DS	194ft
BONANZA 1023-6I2AS	19ft
BONANZA 1023-6H2CS	301ft
BONANZA 1023-6A3DS	576ft
BONANZA 1023-6H1BS	715ft

Legend

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

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

WELL PAD - BONANZA 1023-6H

TOPO E
 BONANZA 1023-6G1DS,
 BONANZA 1023-6I2AS, BONANZA 1023-6H2CS,
 BONANZA 1023-6A3DS & BONANZA 1023-6H1BS
 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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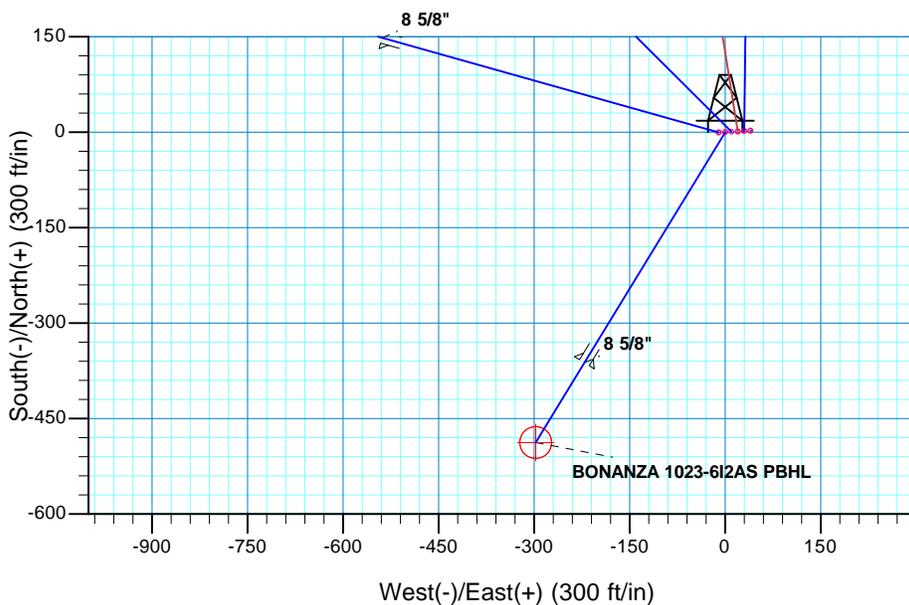
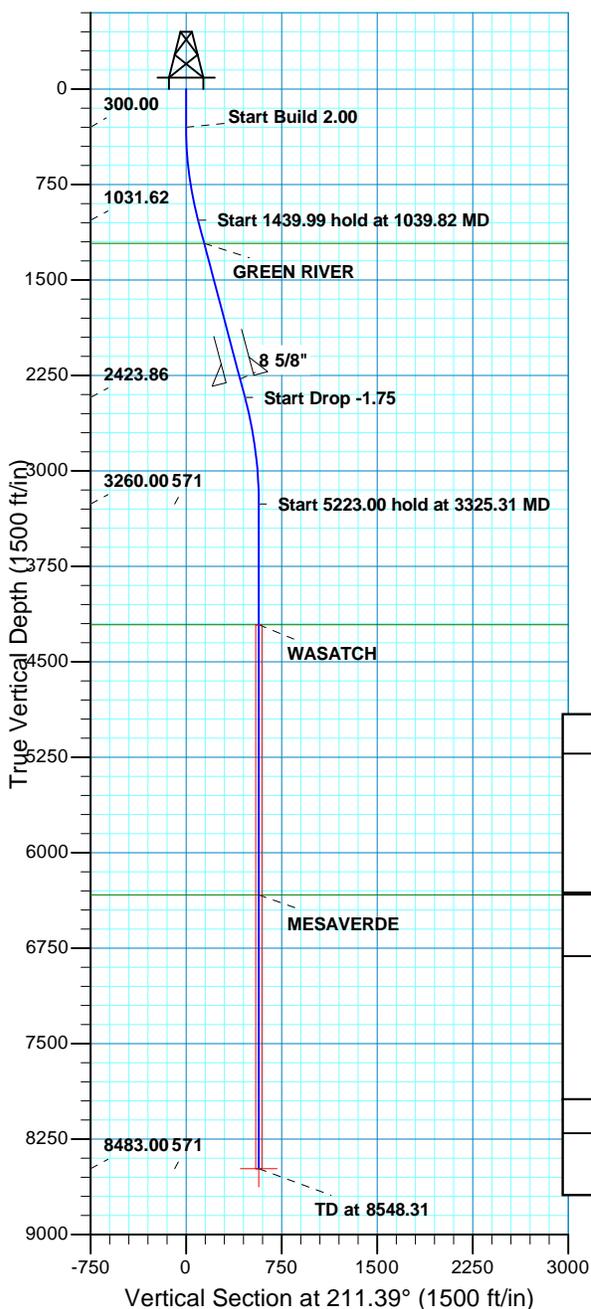
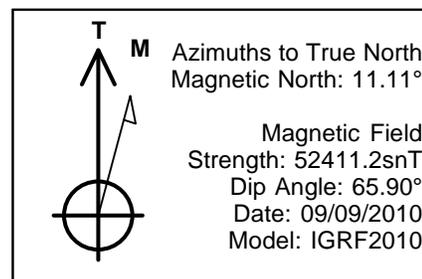
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 14 Apr 2010	16 16 of 17
Revised: CPS	Date: 15 Oct 2010	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-6H
WELLS – BONANZA 1023-6G1DS, BONANZA 1023-6I2AS,
BONANZA 1023-6H2CS, BONANZA 1023-6A3DS &
BONANZA 1023-6H1BS
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 1.0 miles to a second service road to the left. Exit left and proceed in a northeasterly direction along service road approximately 0.2 miles to the proposed access road. Follow the road flags in a northeasterly direction approximately 100 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 47.4 miles in a southerly direction.

WELL DETAILS: BONANZA 1023-6I2AS						
GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14522708.70	2099374.24	39° 58' 45.336 N	109° 21' 42.271 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude Shape
PBHL	8483.00	-487.69	-297.59	14522215.63	2099085.66	39° 58' 40.516 N 109° 21' 46.094 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		
1039.82	14.80	211.39	1031.62	-81.09	-49.48	2.00	211.39	95.00		
2479.81	14.80	211.39	2423.86	-395.01	-241.04	0.00	0.00	462.75		
3325.31	0.00	0.00	3260.00	-487.69	-297.59	1.75	180.00	571.32		
8548.31	0.00	0.00	8483.00	-487.69	-297.59	0.00	0.00	571.32	BONANZA 1023-6I2AS 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		4209.00	4274.31	GREEN RIVER
Ellipsoid:	Clarke 1866		6332.00	6397.31	WASATCH
Zone:	Zone 12N (114 W to 108 W)				MESAVERDE
Location:	SEC 6 T10S R23E				
System Datum:	Mean Sea Level				

CASING DETAILS			
TVD	MD	Name	Size
2279.00	2329.98	8 5/8"	8.625



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

Bonanza 1023-6H PAD

BONANZA 1023-6I2AS

OH

Plan: PLAN #1

Standard Planning Report

09 September, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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 1023-6H PAD, SEC 6 T10S R23E				
Site Position:		Northing:	14,522,708.16 usft	Latitude:	39° 58' 45.332 N
From:	Lat/Long	Easting:	2,099,364.16 usft	Longitude:	109° 21' 42.401 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.05 °

Well	BONANZA 1023-6I2AS, 2192' FNL 644' FEL					
Well Position	+N/-S	0.36 ft	Northing:	14,522,708.71 usft	Latitude:	39° 58' 45.336 N
	+E/-W	10.09 ft	Easting:	2,099,374.24 usft	Longitude:	109° 21' 42.271 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,207.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/09/2010	11.11	65.90	52,411

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	211.39

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,039.82	14.80	211.39	1,031.62	-81.09	-49.48	2.00	2.00	0.00	211.39	
2,479.81	14.80	211.39	2,423.86	-395.01	-241.04	0.00	0.00	0.00	0.00	
3,325.31	0.00	0.00	3,260.00	-487.69	-297.59	1.75	-1.75	0.00	180.00	
8,548.31	0.00	0.00	8,483.00	-487.69	-297.59	0.00	0.00	0.00	0.00	BONANZA 1023-6I2A

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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	211.39	399.98	-1.49	-0.91	1.75	2.00	2.00	0.00	
500.00	4.00	211.39	499.84	-5.96	-3.63	6.98	2.00	2.00	0.00	
600.00	6.00	211.39	599.45	-13.40	-8.17	15.69	2.00	2.00	0.00	
700.00	8.00	211.39	698.70	-23.80	-14.52	27.88	2.00	2.00	0.00	
800.00	10.00	211.39	797.47	-37.15	-22.67	43.52	2.00	2.00	0.00	
900.00	12.00	211.39	895.62	-53.44	-32.61	62.60	2.00	2.00	0.00	
1,000.00	14.00	211.39	993.06	-72.64	-44.33	85.10	2.00	2.00	0.00	
1,039.82	14.80	211.39	1,031.62	-81.09	-49.48	95.00	2.00	2.00	0.00	
Start 1439.99 hold at 1039.82 MD										
1,100.00	14.80	211.39	1,089.81	-94.21	-57.49	110.37	0.00	0.00	0.00	
1,200.00	14.80	211.39	1,186.49	-116.01	-70.79	135.91	0.00	0.00	0.00	
1,227.42	14.80	211.39	1,213.00	-121.99	-74.44	142.91	0.00	0.00	0.00	
GREEN RIVER										
1,300.00	14.80	211.39	1,283.18	-137.81	-84.09	161.44	0.00	0.00	0.00	
1,400.00	14.80	211.39	1,379.86	-159.61	-97.40	186.98	0.00	0.00	0.00	
1,500.00	14.80	211.39	1,476.54	-181.41	-110.70	212.52	0.00	0.00	0.00	
1,600.00	14.80	211.39	1,573.23	-203.21	-124.00	238.06	0.00	0.00	0.00	
1,700.00	14.80	211.39	1,669.91	-225.01	-137.30	263.60	0.00	0.00	0.00	
1,800.00	14.80	211.39	1,766.60	-246.81	-150.61	289.14	0.00	0.00	0.00	
1,900.00	14.80	211.39	1,863.28	-268.61	-163.91	314.67	0.00	0.00	0.00	
2,000.00	14.80	211.39	1,959.96	-290.41	-177.21	340.21	0.00	0.00	0.00	
2,100.00	14.80	211.39	2,056.65	-312.21	-190.51	365.75	0.00	0.00	0.00	
2,200.00	14.80	211.39	2,153.33	-334.01	-203.82	391.29	0.00	0.00	0.00	
2,300.00	14.80	211.39	2,250.02	-355.81	-217.12	416.83	0.00	0.00	0.00	
2,329.98	14.80	211.39	2,279.00	-362.35	-221.11	424.48	0.00	0.00	0.00	
8 5/8"										
2,400.00	14.80	211.39	2,346.70	-377.61	-230.42	442.37	0.00	0.00	0.00	
2,479.81	14.80	211.39	2,423.86	-395.01	-241.04	462.75	0.00	0.00	0.00	
Start Drop -1.75										
2,500.00	14.44	211.39	2,443.40	-399.36	-243.69	467.84	1.75	-1.75	0.00	
2,600.00	12.69	211.39	2,540.61	-419.39	-255.91	491.30	1.75	-1.75	0.00	
2,700.00	10.94	211.39	2,638.48	-436.87	-266.58	511.78	1.75	-1.75	0.00	
2,800.00	9.19	211.39	2,736.94	-451.79	-275.69	529.26	1.75	-1.75	0.00	
2,900.00	7.44	211.39	2,835.88	-464.14	-283.22	543.73	1.75	-1.75	0.00	
3,000.00	5.69	211.39	2,935.22	-473.91	-289.18	555.17	1.75	-1.75	0.00	
3,100.00	3.94	211.39	3,034.87	-481.07	-293.55	563.57	1.75	-1.75	0.00	
3,200.00	2.19	211.39	3,134.72	-485.64	-296.34	568.92	1.75	-1.75	0.00	
3,300.00	0.44	211.39	3,234.69	-487.61	-297.54	571.22	1.75	-1.75	0.00	
3,325.31	0.00	0.00	3,260.00	-487.69	-297.59	571.32	1.75	-1.75	0.00	
Start 5223.00 hold at 3325.31 MD										
3,400.00	0.00	0.00	3,334.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,434.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,534.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,634.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,734.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,834.69	-487.69	-297.59	571.32	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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	3,934.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,034.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,134.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,274.31	0.00	0.00	4,209.00	-487.69	-297.59	571.32	0.00	0.00	0.00	
WASATCH										
4,300.00	0.00	0.00	4,234.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,334.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,434.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,534.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,634.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,734.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,834.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,934.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,034.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,134.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,234.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,334.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,434.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,534.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,634.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,734.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,834.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,934.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,034.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,134.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,234.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,397.31	0.00	0.00	6,332.00	-487.69	-297.59	571.32	0.00	0.00	0.00	
MESAVERDE										
6,400.00	0.00	0.00	6,334.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,434.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,534.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,634.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,734.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,834.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,934.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,034.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,134.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,234.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,334.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,434.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,534.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,634.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,734.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,834.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,934.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,034.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,134.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,234.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,334.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,434.69	-487.69	-297.59	571.32	0.00	0.00	0.00	
8,548.31	0.00	0.00	8,483.00	-487.69	-297.59	571.32	0.00	0.00	0.00	
BONANZA 1023-6I2AS PBHL										

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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 1023-6I2AS - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,483.00	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,329.98	2,279.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,227.42	1,213.00	GREEN RIVER			
4,274.31	4,209.00	WASATCH			
6,397.31	6,332.00	MESAVERDE			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,039.82	1,031.62	-81.09	-49.48	Start 1439.99 hold at 1039.82 MD
2,479.81	2,423.86	-395.01	-241.04	Start Drop -1.75
3,325.31	3,260.00	-487.69	-297.59	Start 5223.00 hold at 3325.31 MD
8,548.31	8,483.00	-487.69	-297.59	TD at 8548.31



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
Bonanza 1023-6H PAD
BONANZA 1023-6I2AS**

OH

Plan: PLAN #1

Standard Planning Report - Geographic

09 September, 2010



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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 1023-6H PAD, SEC 6 T10S R23E				
Site Position:		Northing:	14,522,708.16 usft	Latitude:	39° 58' 45.332 N
From:	Lat/Long	Easting:	2,099,364.16 usft	Longitude:	109° 21' 42.401 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.05 °

Well	BONANZA 1023-6I2AS, 2192' FNL 644' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,522,708.71 usft	Latitude:	39° 58' 45.336 N
	+E/-W	0.00 ft	Easting:	2,099,374.24 usft	Longitude:	109° 21' 42.271 W
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:	5,207.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/09/2010	11.11	65.90	52,411

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	211.39

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,039.82	14.80	211.39	1,031.62	-81.09	-49.48	2.00	2.00	0.00	211.39	
2,479.81	14.80	211.39	2,423.86	-395.01	-241.04	0.00	0.00	0.00	0.00	
3,325.31	0.00	0.00	3,260.00	-487.69	-297.59	1.75	-1.75	0.00	180.00	
8,548.31	0.00	0.00	8,483.00	-487.69	-297.59	0.00	0.00	0.00	0.00	BONANZA 1023-6I2A

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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	14,522,708.71	2,099,374.24	39° 58' 45.336 N	109° 21' 42.271 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,522,708.71	2,099,374.24	39° 58' 45.336 N	109° 21' 42.271 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,522,708.71	2,099,374.24	39° 58' 45.336 N	109° 21' 42.271 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,522,708.71	2,099,374.24	39° 58' 45.336 N	109° 21' 42.271 W	
Start Build 2.00										
400.00	2.00	211.39	399.98	-1.49	-0.91	14,522,707.20	2,099,373.36	39° 58' 45.321 N	109° 21' 42.283 W	
500.00	4.00	211.39	499.84	-5.96	-3.63	14,522,702.68	2,099,370.71	39° 58' 45.277 N	109° 21' 42.318 W	
600.00	6.00	211.39	599.45	-13.40	-8.17	14,522,695.16	2,099,366.31	39° 58' 45.204 N	109° 21' 42.376 W	
700.00	8.00	211.39	698.70	-23.80	-14.52	14,522,684.64	2,099,360.15	39° 58' 45.101 N	109° 21' 42.458 W	
800.00	10.00	211.39	797.47	-37.15	-22.67	14,522,671.14	2,099,352.25	39° 58' 44.969 N	109° 21' 42.562 W	
900.00	12.00	211.39	895.62	-53.44	-32.61	14,522,654.68	2,099,342.62	39° 58' 44.808 N	109° 21' 42.690 W	
1,000.00	14.00	211.39	993.06	-72.64	-44.33	14,522,635.26	2,099,331.25	39° 58' 44.618 N	109° 21' 42.841 W	
1,039.82	14.80	211.39	1,031.62	-81.09	-49.48	14,522,626.72	2,099,326.25	39° 58' 44.534 N	109° 21' 42.907 W	
Start 1439.99 hold at 1039.82 MD										
1,100.00	14.80	211.39	1,089.81	-94.21	-57.49	14,522,613.45	2,099,318.49	39° 58' 44.405 N	109° 21' 43.010 W	
1,200.00	14.80	211.39	1,186.49	-116.01	-70.79	14,522,591.41	2,099,305.59	39° 58' 44.189 N	109° 21' 43.181 W	
1,227.42	14.80	211.39	1,213.00	-121.99	-74.44	14,522,585.37	2,099,302.05	39° 58' 44.130 N	109° 21' 43.228 W	
GREEN RIVER										
1,300.00	14.80	211.39	1,283.18	-137.81	-84.09	14,522,569.37	2,099,292.69	39° 58' 43.974 N	109° 21' 43.352 W	
1,400.00	14.80	211.39	1,379.86	-159.61	-97.40	14,522,547.33	2,099,279.79	39° 58' 43.758 N	109° 21' 43.522 W	
1,500.00	14.80	211.39	1,476.54	-181.41	-110.70	14,522,525.29	2,099,266.89	39° 58' 43.543 N	109° 21' 43.693 W	
1,600.00	14.80	211.39	1,573.23	-203.21	-124.00	14,522,503.25	2,099,253.99	39° 58' 43.327 N	109° 21' 43.864 W	
1,700.00	14.80	211.39	1,669.91	-225.01	-137.30	14,522,481.21	2,099,241.09	39° 58' 43.112 N	109° 21' 44.035 W	
1,800.00	14.80	211.39	1,766.60	-246.81	-150.61	14,522,459.17	2,099,228.19	39° 58' 42.896 N	109° 21' 44.206 W	
1,900.00	14.80	211.39	1,863.28	-268.61	-163.91	14,522,437.13	2,099,215.29	39° 58' 42.681 N	109° 21' 44.377 W	
2,000.00	14.80	211.39	1,959.96	-290.41	-177.21	14,522,415.09	2,099,202.39	39° 58' 42.466 N	109° 21' 44.548 W	
2,100.00	14.80	211.39	2,056.65	-312.21	-190.51	14,522,393.04	2,099,189.49	39° 58' 42.250 N	109° 21' 44.719 W	
2,200.00	14.80	211.39	2,153.33	-334.01	-203.82	14,522,371.00	2,099,176.59	39° 58' 42.035 N	109° 21' 44.890 W	
2,300.00	14.80	211.39	2,250.02	-355.81	-217.12	14,522,348.96	2,099,163.69	39° 58' 41.819 N	109° 21' 45.061 W	
2,329.98	14.80	211.39	2,279.00	-362.35	-221.11	14,522,342.36	2,099,159.82	39° 58' 41.754 N	109° 21' 45.112 W	
8 5/8"										
2,400.00	14.80	211.39	2,346.70	-377.61	-230.42	14,522,326.92	2,099,150.79	39° 58' 41.604 N	109° 21' 45.231 W	
2,479.81	14.80	211.39	2,423.86	-395.01	-241.04	14,522,309.33	2,099,140.50	39° 58' 41.432 N	109° 21' 45.368 W	
Start Drop -1.75										
2,500.00	14.44	211.39	2,443.40	-399.36	-243.69	14,522,304.93	2,099,137.92	39° 58' 41.389 N	109° 21' 45.402 W	
2,600.00	12.69	211.39	2,540.61	-419.39	-255.91	14,522,284.69	2,099,126.07	39° 58' 41.191 N	109° 21' 45.559 W	
2,700.00	10.94	211.39	2,638.48	-436.87	-266.58	14,522,267.01	2,099,115.73	39° 58' 41.018 N	109° 21' 45.696 W	
2,800.00	9.19	211.39	2,736.94	-451.79	-275.69	14,522,251.92	2,099,106.90	39° 58' 40.870 N	109° 21' 45.813 W	
2,900.00	7.44	211.39	2,835.88	-464.14	-283.22	14,522,239.44	2,099,099.59	39° 58' 40.748 N	109° 21' 45.910 W	
3,000.00	5.69	211.39	2,935.22	-473.91	-289.18	14,522,229.57	2,099,093.81	39° 58' 40.652 N	109° 21' 45.986 W	
3,100.00	3.94	211.39	3,034.87	-481.07	-293.55	14,522,222.32	2,099,089.57	39° 58' 40.581 N	109° 21' 46.043 W	
3,200.00	2.19	211.39	3,134.72	-485.64	-296.34	14,522,217.70	2,099,086.87	39° 58' 40.536 N	109° 21' 46.078 W	
3,300.00	0.44	211.39	3,234.69	-487.61	-297.54	14,522,215.72	2,099,085.71	39° 58' 40.516 N	109° 21' 46.094 W	
3,325.31	0.00	0.00	3,260.00	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
Start 5223.00 hold at 3325.31 MD										
3,400.00	0.00	0.00	3,334.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
3,500.00	0.00	0.00	3,434.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
3,600.00	0.00	0.00	3,534.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
3,700.00	0.00	0.00	3,634.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
3,800.00	0.00	0.00	3,734.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
3,900.00	0.00	0.00	3,834.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,000.00	0.00	0.00	3,934.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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	4,034.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,200.00	0.00	0.00	4,134.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,274.31	0.00	0.00	4,209.00	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
WASATCH										
4,300.00	0.00	0.00	4,234.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,400.00	0.00	0.00	4,334.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,500.00	0.00	0.00	4,434.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,600.00	0.00	0.00	4,534.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,700.00	0.00	0.00	4,634.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,800.00	0.00	0.00	4,734.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
4,900.00	0.00	0.00	4,834.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,000.00	0.00	0.00	4,934.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,100.00	0.00	0.00	5,034.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,200.00	0.00	0.00	5,134.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,300.00	0.00	0.00	5,234.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,400.00	0.00	0.00	5,334.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,500.00	0.00	0.00	5,434.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,600.00	0.00	0.00	5,534.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,700.00	0.00	0.00	5,634.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,800.00	0.00	0.00	5,734.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
5,900.00	0.00	0.00	5,834.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,000.00	0.00	0.00	5,934.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,100.00	0.00	0.00	6,034.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,200.00	0.00	0.00	6,134.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,300.00	0.00	0.00	6,234.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,397.31	0.00	0.00	6,332.00	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
MESAVERDE										
6,400.00	0.00	0.00	6,334.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,500.00	0.00	0.00	6,434.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,600.00	0.00	0.00	6,534.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,700.00	0.00	0.00	6,634.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,800.00	0.00	0.00	6,734.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
6,900.00	0.00	0.00	6,834.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,000.00	0.00	0.00	6,934.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,100.00	0.00	0.00	7,034.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,200.00	0.00	0.00	7,134.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,300.00	0.00	0.00	7,234.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,400.00	0.00	0.00	7,334.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,500.00	0.00	0.00	7,434.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,600.00	0.00	0.00	7,534.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,700.00	0.00	0.00	7,634.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,800.00	0.00	0.00	7,734.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
7,900.00	0.00	0.00	7,834.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,000.00	0.00	0.00	7,934.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,100.00	0.00	0.00	8,034.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,200.00	0.00	0.00	8,134.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,300.00	0.00	0.00	8,234.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,400.00	0.00	0.00	8,334.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,500.00	0.00	0.00	8,434.69	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
8,548.31	0.00	0.00	8,483.00	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W	
BONANZA 1023-6I2AS PBHL										

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5207' & RKB 14' @ 5221.00ft (ASSUMED)
Site:	Bonanza 1023-6H PAD	North Reference:	True
Well:	BONANZA 1023-6I2AS	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 1023-6I2AS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,483.00	-487.69	-297.59	14,522,215.63	2,099,085.66	39° 58' 40.516 N	109° 21' 46.094 W

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
2,329.98	2,279.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
1,227.42	1,213.00	GREEN RIVER			
4,274.31	4,209.00	WASATCH			
6,397.31	6,332.00	MESAVERDE			

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
		(ft)	(ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
1,039.82	1,031.62	-81.09	-49.48	Start 1439.99 hold at 1039.82 MD	
2,479.81	2,423.86	-395.01	-241.04	Start Drop -1.75	
3,325.31	3,260.00	-487.69	-297.59	Start 5223.00 hold at 3325.31 MD	
8,548.31	8,483.00	-487.69	-297.59	TD at 8548.31	

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

<u>API #</u>	<u>BONANZA 1023-6A3DS</u>		
	Surface: 2191 FNL / 624 FEL	SENE	Lot
	BHL: 1095 FNL / 800 FEL	NENE	Lot 1
<u>API #</u>	<u>BONANZA 1023-6G1DS</u>		
	Surface: 2193 FNL / 654 FEL	SENE	Lot
	BHL: 1950 FNL / 1515 FEL	SWNE	Lot
<u>API #</u>	<u>BONANZA 1023-6H1BS</u>		
	Surface: 2191 FNL / 614 FEL	SENE	Lot
	BHL: 1591 FNL / 606 FEL	SENE	Lot
<u>API #</u>	<u>BONANZA 1023-6H2CS</u>		
	Surface: 2192 FNL / 634 FEL	SENE	Lot
	BHL: 1806 FNL / 1020 FEL	SENE	Lot
<u>API #</u>	<u>BONANZA 1023-6I2AS</u>		
	Surface: 2192 FNL / 644 FEL	SENE	Lot
	BHL: 2622 FSL / 942 FEL	NESE	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.

±385' (0.7 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, from the road re-route traveling west to lease boundary. Please see Topo D and Exhibit B2.

The following segments require a ROW.

- ±3,120' (0.6 miles) – Section 6 T10S R23E (SW/4 NE/4) – Lease UTU38419, from the northeastern lease line boundary to the southeast lease and section boundary in the NE/4 SE/4 of Section 6. Please refer to Exhibit B2, Lines 6 and 5.
- ±1,310' (0.3 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, from the western section line boundary the southern section line boundary. Please refer to Exhibit B2, Line 4.
- ±40' (0.01 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, dips into the northern section line boundary and back up to northern section line boundary. Please refer to Exhibit B2, Line 3.
- ±600' (0.1 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, comes in from the southern section boundary line, travels east, then back to the southern section boundary line. Please refer to Exhibit B2, Line 2.
- ±1,010' (0.2 miles) – Section 8 T10S R23E (NW/4 NW/4) – Lease UTU37355, enters the northern section line boundary and ties in to existing road in the NE/4 NW/4 of section 8. Please refer to Exhibit B2, Line 1.

B. New or Reconstructed Access Roads:

See MDP for additional details on road construction.

- ±100' (0.7 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, re-route 100' of new road from the edge of pad to the existing road tie-in. Please see Topo D and Exhibit B2.

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 1023-6H, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 29, 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 ±13,980' and the individual segments are broken up as follows:

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

- ±450' (0.09 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, 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.
- ±160' (0.03 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the tie-in at the new 10" buried gas gathering pipeline at the 5L Intersection. Please refer to Topo D Pad and Pipeline Detail.

±340' (0.06 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 10" buried gas gathering pipeline that travel west to the lease line boundary. Please see Topo D Pad and Pipeline Detail.

The following segments require a ROW.

- ±930' (0.2 miles) – Section 6 T10S R23E (SW/4 NE/4) – Lease UTU38419, BLM surface, New 10" buried gas gathering pipeline from the northeastern lease line boundary (SW/4 NE/4) traveling in a southerly direction to the 16" buried gas gathering line tie-in (NW/4 SE/4). Please refer to Exhibit A1, Line 7.
- ±5,640' (1.1 miles) – Section 6 T10S R23E (NW/4 SE/4) – Lease UTU38419, BLM surface, New 16" buried gas gathering line from the 10" tie-in to the western section line boundary. Please see Exhibit A1, Lines 8, 9, 11, 12 and 13. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±6,460' (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 16" buried gas gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit A1, Line 14. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6F, 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 ±6,940 and the individual segments are broken up as follows:

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

- ±450' (0.09 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, 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.
- ±160' (0.03 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the tie-in at the new 10" buried gas gathering pipeline at the 5L Intersection. Please refer to Topo D Pad and Pipeline Detail.
- ±340' (0.06 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 10" buried gas gathering pipeline that travel west to the lease line boundary. Please see Topo D Pad and Pipeline Detail.

The following segments require a ROW.

- ±930' (0.2 miles) – Section 6 T10S R23E (SW/4 NE/4) – Lease UTU38419, BLM surface, New 10" buried gas gathering pipeline from the northeastern lease line boundary (SW/4 NE/4) traveling in a southerly direction to the 16" buried gas gathering line tie-in (NW/4 SE/4). Please refer to Exhibit A1, Line 7.
- ±2,160' (0.4 miles) – Section 6 T10S R23E (NW/4 SE/4) – Lease UTU38419, BLM surface, New 16" buried gas gathering line from the 10" tie-in to the eastern section line boundary. Please see Exhibit A1, Line 6. This portion of pipeline will be used concurrently with the Bonanza 1023-6B,

- Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±1,220' (0.2 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 16" gas gathering pipeline from the west lease boundary of 1023-Section 5 to the southern lease boundary of 1023-Section 5. Please refer to Exhibit A1, Line 5. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6F, 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 1023-6F, 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 1023-6F, 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 1023-6F, 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 ±13,980' and the individual segments are broken up as follows:

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

- ±450' (0.09 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.
- ±500' (0.09 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to to the western lease line boundary. Please refer Exhibit B, Lines 7 and 4.

The following segments require a ROW.

- ±6,570' (1.2 miles) – Section 6 T10S R23E (SW/4 NE/4) – Lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the eastern lease line boundary to the western section line boundary. Please refer to Exhibit B1, Lines 6, 19, 18, 2, 3 and 4. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-5L and Bonanza 1023-5M Pads.

±6,460' (1.2 miles) – Section 1 T10S R22E (NE/4 NE/4) – Lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the eastern section line boundary to the southern section line boundary. Please refer to Exhibit B1, Line 5. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6F, 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 ±6,940 and the individual segments are broken up as follows:

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

- ±450' (0.09 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.
- ±500' (0.09 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to to the western lease line boundary. Please refer Exhibit B, Lines 7 and 4.

The following segments require a ROW.

- ±3,090' (0.6 miles) – Section 6 T10S R23E (SW/4 NE/4) – Lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the eastern lease line boundary to the eastern section line boundary. Please refer to Exhibit A1, Lines 7 and 6. This portion of pipeline will be used concurrently with the Bonanza 1023-6B, Bonanza 1023-6C, Bonanza 1023-6F, Bonanza 1023-5L and Bonanza 1023-5M Pads.
- ±1,220' (0.2 miles) – Section 5 T10S R23E (SW/4 SW/4) – Lease UTU73450, BLM surface, New 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 reclaim the old access road when new road is built. Add ditch & culvert at the access road
- Facilities: Will be painted Shadow Grey
- Top Soil: Existing top soil to stay north of the location

Resource Reports:

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

A paleontological reconnaissance survey was completed on May 13, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-27.

Biological field survey was completed on May 11, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-217.

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

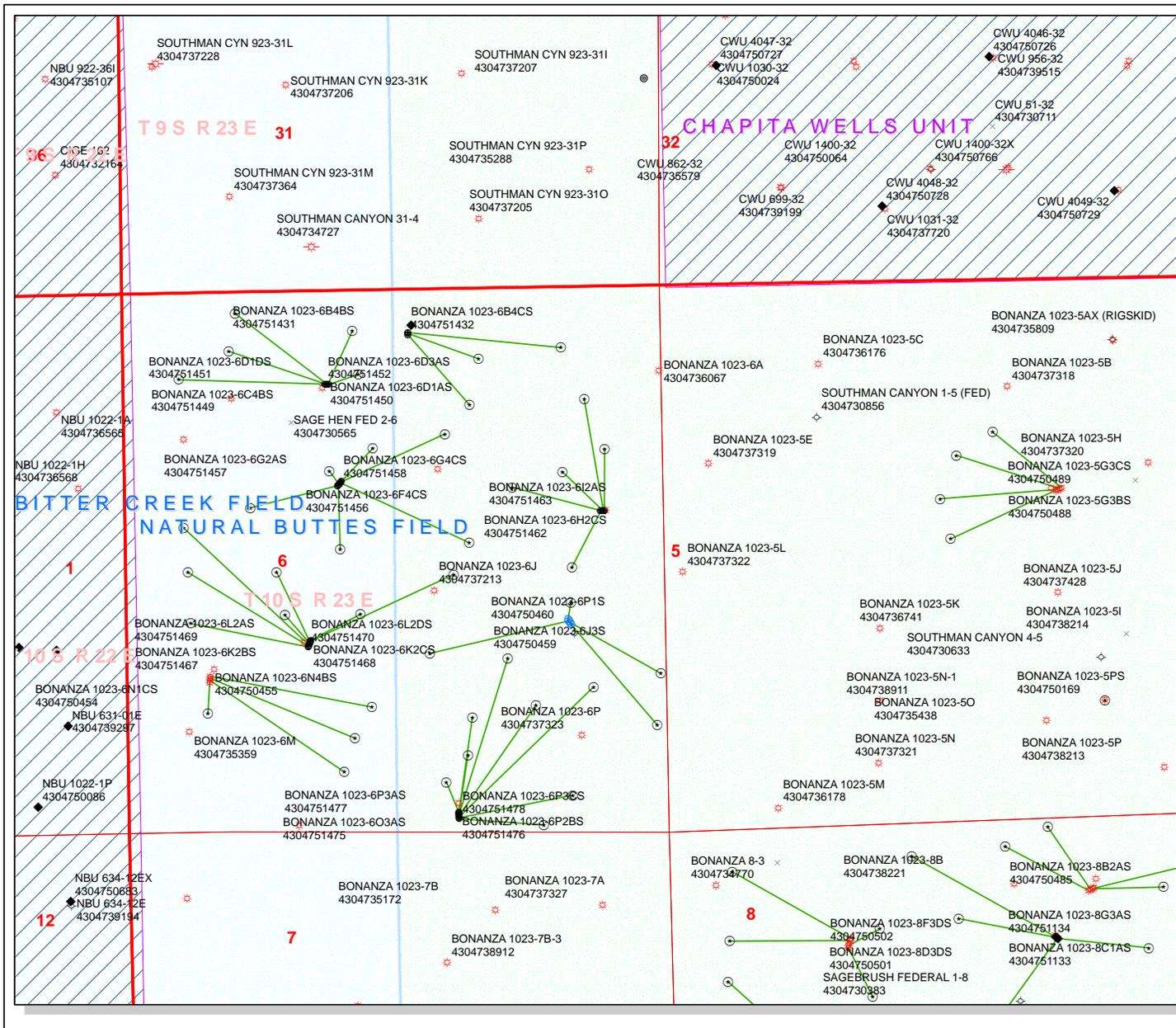
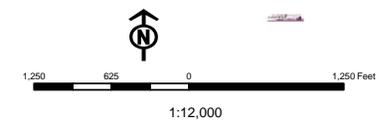
December 29, 2010

Date

API Number: 4304751463
Well Name: BONANZA 1023-6I2AS
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 GEOTHERML	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WIW - Water Injection Well
TERMINATED	WSW - Water Supply Well
Sections	
Township	



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 1/4/2011

WELL NAME: BONANZA 1023-6I2AS

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

CONTACT: Gina Becker

API NO. ASSIGNED: 43047514630000

PHONE NUMBER: 720 929-6086

PROPOSED LOCATION: SENE 06 100S 230E

SURFACE: 2192 FNL 0644 FEL

BOTTOM: 2622 FSL 0942 FEL

COUNTY: UINTAH

LATITUDE: 39.97931

UTM SURF EASTINGS: 639881.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU38419

SURFACE OWNER: 1 - Federal

Permit Tech Review:

Engineering Review:

Geology Review:

LONGITUDE: -109.36185

NORTHINGS: 4426536.00

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 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 1023-6I2AS
API Well Number: 43047514630000
Lease Number: UTU38419
Surface Owner: FEDERAL
Approval Date: 1/19/2011

Issued to:

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

Authority:

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

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

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

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

OR

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

Reporting Requirements:

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

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

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a faint rectangular box.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JAN 05 2010
2011

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. CA-60768 CR-3
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. BONANZA 1023-6I2AS
3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086		9. API Well No. 43-047-51463
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENE 2192FNL 644FEL 39.97923 N Lat, 109.36242 W Lon At proposed prod. zone NESE 2622FSL 942FEL 39.97789 N Lat, 109.36348 W Lon		10. Field and Pool, or Exploratory BONANZA
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 47.5 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) 942	16. No. of Acres in Lease 516.80	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 595	19. Proposed Depth 8548 MD 8483 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5207 GL	22. Approximate date work will start 06/30/2011	17. Spacing Unit dedicated to this well
20. BLM/BIA Bond No. on file WYB000291		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 AUG 17 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)

Electronic Submission #100033 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 ()

RECEIVED

AUG 29 2011

UDOGM

NOTICE OF APPROVAL
CONDITIONS OF APPROVAL ATTACHED

DIV. OF OIL, GAS & MINING

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

10RRH0293AE

NOS 4/26/2010



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore	Location:	SENE, Sec. 6, T10S, R23E
Well No:	Bonanza 1023-612AS	Lease No:	UTU-38419
API No:	43-047-51463	Agreement:	CA-60768 CR-3

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 Conditions of Approval

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

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

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

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

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

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

SITE SPECIFIC DOWNHOLE COAs:

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

Variances Granted:

Air Drilling

- Approved - Variance requested for Air Drill BOPE
- Approved - Variance requested for mud materials
- Approved - Variance requested for FIT.
- Approved - Variance requested for blooie line to be 50' minimum.
- Approved - Variance requested for requirement for automatic igniter or continuous pilot light on the blooie line.
- Approved - Variance requested to allow for rig mounted air compressors 40' from the wellbore.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

log.

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

OPERATING REQUIREMENT REMINDERS:

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

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

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

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 1023-6I2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514630000
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: 2192 FNL 0644 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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: 10/7/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 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 program. This request includes options for the use of a Closed Loop system, and change in casing design. Please see attachment for details. Please contact the undersigned if you have any questions and/or concerns.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 10/12/2011

By: *Derek Quist*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/6/2011	

Kerr-McGee Oil & Gas Onshore. L.P.**BONANZA 1023-6I2AS**

Surface: 2192 FNL / 644 FEL SENE
 BHL: 2622 FSL / 942 FEL NWNESE

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	1213	
Birds Nest	1471	Water
Mahogany	1829	Water
Wasatch	4209	Gas
Mesaverde	6332	Gas
MVU2	7293	Gas
MVL1	7847	Gas
TVD	8483	
TD	8548	

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 8483' TVD, approximately equals
 5,429 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,551 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.

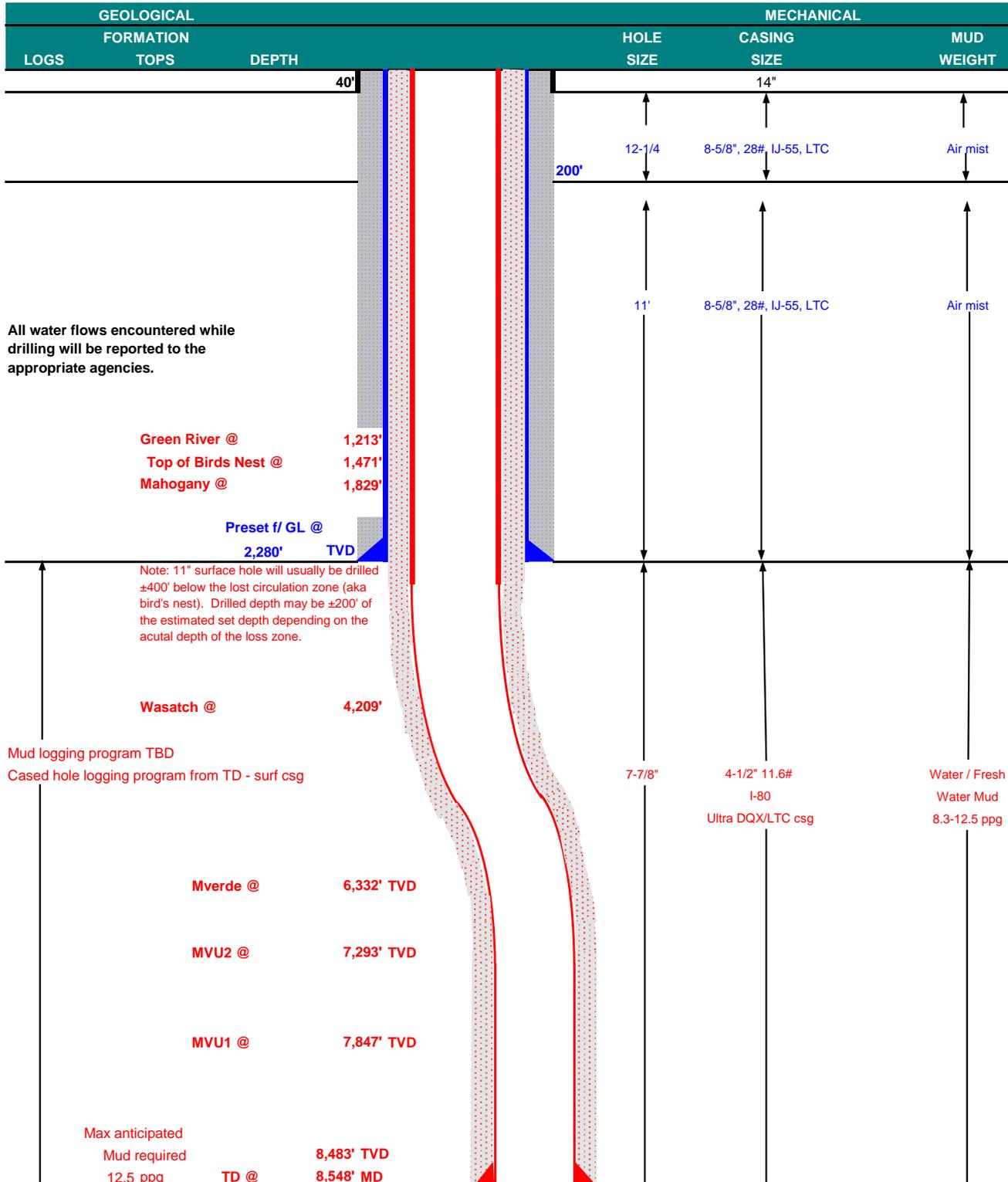
10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	October 6, 2011	
WELL NAME	BONANZA 1023-6I2AS		TD	8,483' TVD	8,548' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	SENE	2192 FNL	644 FEL	Sec 6	T 10S R 23E
	Latitude: 39.979226	Longitude: -109.362422		NAD 83	
BTM HOLE LOCATION	NWNESE	2622 FSL	942 FEL	Sec 6	T 10S R 23E
	Latitude: 39.977887	Longitude: -109.363483		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,280	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						2.37	1.76	6.22	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	7,780	6,350	223,000	267,035
						1.11	1.15	3.33	
	4-1/2"	5,000 to 8,548'	11.60	I-80	LTC	1.11	1.15	6.70	

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*Buoys.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*Buoys.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	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	LEAD	1,780'	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	3,708'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
	TAIL	4,840'	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. 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:

Nick Spence / Danny Showers / Chad Loesel

DATE:

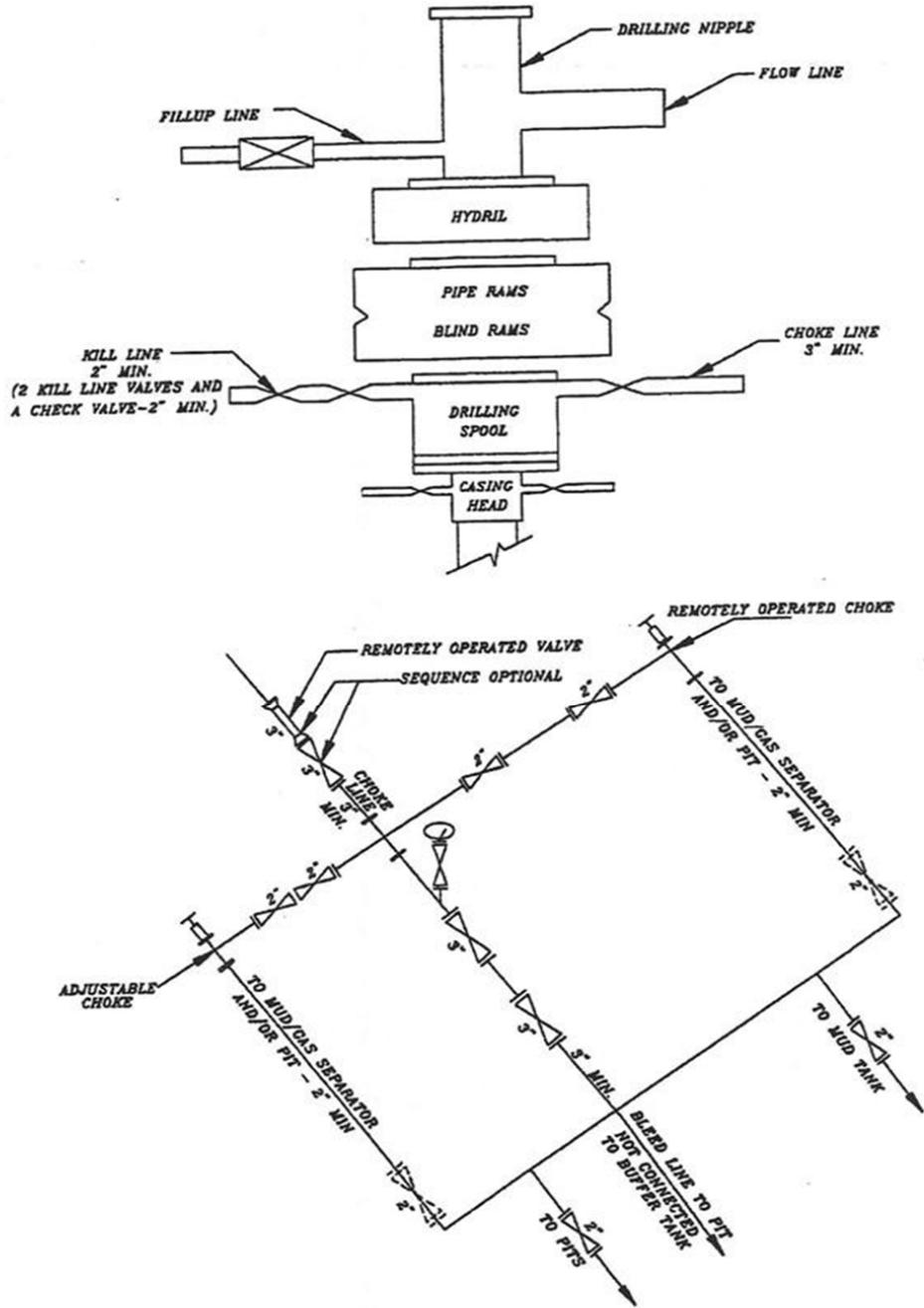
DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:



EXHIBIT A BONANZA 1023-6I2AS



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 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:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6I2AS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514630000	
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: 2192 FNL 0644 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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: 11/9/2011 <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 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 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX. SPUD WELL LOCATION ON NOVEMBER 9, 2011 AT 09:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/10/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I2AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2192 FNL 0644 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047514630000
PHONE NUMBER: 720 929-6515 Ext		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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/9/2011	<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"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
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 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX. SPUD WELL LOCATION ON NOVEMBER 9, 2011 AT 09:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/10/2011	

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: BONANZA 1023-6I2AS

Api No: 43-047-51463 Lease Type FEDERAL

Section 06 Township 10S Range 23E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 11/08/2011

Time 2:00 PM

How DRY

**Drilling will
Commence:** _____

Reported by SHEILA WOPSOCK

Telephone # (435) 781-7024

Date 11/08/2011 Signed CHD

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) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751463	BONANZA 1023-6I2AS		SENE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18305	11/9/2011			11/16/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/09/2011 AT 09:00 HRS. <i>BHL = NENE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751460	BONANZA 1023-6G1DS		SENE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18306	11/9/2011			11/16/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/09/2011 AT 14:00 HRS. <i>BHL = SWNE</i>							

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 Scharnowsk
Signature

REGULATORY ANALYST

11/10/2011

Title

Date

(5/2000)

RECEIVED

NOV 14 2011

DIV. OF OIL, GAS & MINING

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
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047514630000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2192 FNL 0644 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<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	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/25/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU AIR RIG ON NOV. 23, 2011. DRILLED SURFACE HOLE TO 2422'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/28/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: BONANZA 1023-6I2AS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047514630000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2192 FNL 0644 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: MATERIAL 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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/28/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>MIRU ROTARY RIG. FINISHED DRILLING FROM 2422' TO 8587' ON JAN. 26, 2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED XTREME RIG 12 ON JAN. 28, 2012 @ 11:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 31, 2012</p>			
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst	
SIGNATURE N/A	DATE 1/30/2012		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: BONANZA 1023-6I2AS	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047514630000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2192 FNL 0644 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: SUNNYSIDE LATERAL 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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/22/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>THE SUBJECT WELL WAS PLACED ON PRODUCTION ON MARCH 22, 2012 AT 11:30 A.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 02, 2012</p>			
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 4/2/2012	

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 _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
CA60768 CR3

2. Name of Operator **KERR MCGEE OIL & GAS ONSHORE** Contact: CARA MAHLER
 Mail: cara.mahler@anadarko.com

8. Lease Name and Well No.
BONANZA 1023-612AS

3. Address **1099 18TH STREET, SUITE 1800 DENVER, CO 80202** 3a. Phone No. (include area code)
 Ph: 720-929-6029

9. API Well No. **43-047-51463**

4. Location of Well (Report location clearly and in accordance with Federal requirements)
 At surface **SENE 2192FNL 644FEL 39.979226 N Lat, 109.362421 W Lon**
 At top prod interval reported below **NENE 2624FSL 970FEL**
 At total depth **NENE 2606FSL 926FEL BBL by HSM**

**RECEIVED
MAY 15 2012**

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 **11/09/2011** 15. Date T.D. Reached **01/26/2012** 16. Date Completed
 D & A Ready to Prod. **03/22/2012**

17. Elevations (DF, KB, RT, GL)*
5207 GL

18. Total Depth: MD **8587** TVD **8529** 19. Plug Back T.D.: MD **8534** TVD **8476** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/CM/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	2395		900		0	
7.875	4.500 I-80	11.6	0	8577		1454		100	

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	8013							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5574	6240	5574 TO 6240	0.360	45	OPEN
B) MESAVERDE	7064	8499	7064 TO 8499	0.360	141	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
5574 TO 8499	7772 BBLs SLICK H2O & 174,114 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/22/2012	03/24/2012	24	→	0.0	1071.0	1051.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
22/64	SI 1520	1816.0	→	0	1071	1051		PGW	

28a. Production - Interval B

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1179
				BIRD'S NEST	1471
				MAHOGANY	1977
				WASATCH	4289
				MESAVERDE	6395

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 5016?; LTC csg was run from 5016? to 8577?. 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 #137294 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 05/04/2012

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 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: DRILLING

Start Date: 10/19/2011

End Date: 1/28/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/23/2011	22:00 - 22:30	0.50	PRSPD	01	A	P		SKID RIG 10' TO BONANZA 1023-6I2AS (WELL 4 OF 5). INSTALL DIVERTOR HEAD AND BOWIE LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK AND PIPE RACKS. READY. RIG UP PIT PUMP. RIG UP PUMP. PRIME PUMP. INSPECT RIG.
	22:30 - 23:00	0.50	PRSPD	01	B	P		HELD PRE-SPUD SAFETY MEETING. TALKED ABOUT HOUSE KEEPING. P/U 8" 1.83 BEND .17 RPG MUD MOTOR (1ST RUN) . M/U QD507 12.25" BIT (5TH RUN) (SN 7014657). TRIP IN TO SPUD.
	23:00 - 0:00	1.00	DRLSUR	02	D	P		SPUD 11/23/2011 23:00. DRILL 12.25" HOLE 44'-150' (106', 106'/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.
11/24/2011	0:00 - 0:30	0.50	DRLSUR	02	D	P		DRILL 12.25" HOLE 150'- 210' (60', 120'/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.
	0:30 - 2:30	2.00	DRLSUR	06	A	P		TRIP OUT. LAY DOWN 6" DRILL COLLARS, 12 1/4 BIT. CHECK BIT AND MOTOR. PICK UP Q506 11" BIT (4TH RUN) (SN 7019741) SCRIBE MOTOR. P/U 8" DIRECTIONAL ASSEMBLY AND SCRIBE. INSTALL EM TOOL. TRIP IN TO 210' TO DRILL AHEAD.
	2:30 - 16:30	14.00	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 210'- 1670' (1460', 104'/HR). GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1,220/1050. UP/DOWN/ ROT 71/54/60 K. DRAG 11 K. CIRC RESERVE W. 8.3# WATER.
	16:30 - 0:00	7.50	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 1670'-2270 (600', 80'/HR). RPM=55, WOB 15-20K. PSI ON/OFF 1,405/1330. UP/DOWN/ ROT 82/60/71 K. DRAG 11 K. CIRC RESERVE W. 8.3# WATER. LOST CIRC. @ 1550
11/25/2011	0:00 - 2:30	2.50	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 2270 T/2422 (152', 61'/HR). RPM=55, WOB 15-20K. PSI ON/OFF 1,430/1210. UP/DOWN/ ROT 85/62/74 K. DRAG 11 K. TD WELL W/AIR
	2:30 - 4:30	2.00	DRLSUR	05	C	P		CIRC. F/CSNG
	4:30 - 8:30	4.00	DRLSUR	06	A	P		LDDS, BHA & DIR. TOOLS
	8:30 - 9:30	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.
	9:30 - 12:00	2.50	DRLSUR	12	C	P		HOLD SAFETY MEETING. RUN 54 JTS OF 8-5/8" 28# J-55 LTC CSG. LAND FLOAT SHOE @ 2384' KB. LAND BAFFLE PLATE @ 2338' KB. MADE FLOAT SHOE UP WITH THREAD LOCK. RAN 5 TOTAL CENTRALIZERS.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN Spud Date: 11/23/2011
 Project: UTAH-UINTAH Site: BONANZA 1023-6H PAD Rig Name No: PROPETRO 12/12, XTC 12/12
 Event: DRILLING Start Date: 10/19/2011 End Date: 1/28/2012
 Active Datum: RKB @5,222.01ft (above Mean Sea Level) UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 12:30	0.50	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. LAND CSNG @ 12:00
	12:30 - 13:30	1.00	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 135 BBLs OF WATER AHEAD. PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61.4 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 145.9 BBLs OF H2O. NO CIRC THROUGH OUT. FINAL LIFT OF 150 PSI AT 4 BBL/MIN. BUMP PLUG WITH 550 PSI. HELD FOR 5 MIN. FLOAT HELD. NO CEMENT TO SURFACE.
	13:30 - 14:00	0.50	DRLSUR	12	E	P		PUMP (150 SX) 30.7 BBLs OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE NO CEMENT TO SURFACE.
	14:00 - 16:00	2.00	DRLSUR	13	A	P		WOC
	16:00 - 16:30	0.50	DRLSUR	12	E	P		PUMP 225 SKS (46.1 BBLs) CMT DOWN BACKSIDE, NO RETURNS TO SURFACE
	16:30 - 17:30	1.00	DRLSUR	13	A	P		WOC
	17:30 - 18:30	1.00	DRLSUR	12	E	P		PUMP 225 SKS (46.1 BBLs) CMT DOWN BACKSIDE, NO RETURNS TO SURFACE CLEAN TRUCKS & RD CMTRS. RELEASE RIG @ 18:30 TOP OFF CMT 11/28/2011
1/21/2012	18:00 - 20:00	2.00	MIRU	01	C	P		PULL CAT WALK FORWARD. PREP RIG FOR SKID AND SKID RIG FORWARD 10'. REPLACE CATWALK AND INSTALL VIBRATING HOSES. (INSTALL GRASSHOPPER WHILE LOGGING LAST HOLE) NIPPLE UP BOPE. NIPPLE UP CHOKE LINE.
	20:00 - 21:00	1.00	MIRU	14	A	P		NIPPLE UP STRATA EQUIPMENT. TRIED TO INSTALL ORBIT VALVE DIFFERENTLY TO HELP ON RIG DOWN AND SKID, BUT IT WOULD NOT INSTALL THAT WAY. SO THEY INSTALLED IT THE WAY IT WAS. (400 BBLs OF DRILL WATER TO MUD TANKS FROM STORAGE)
	21:00 - 0:00	3.00	MIRU	14	A	P		NIPPLE UP STRATA EQUIPMENT. TRIED TO INSTALL ORBIT VALVE DIFFERENTLY TO HELP ON RIG DOWN AND SKID, BUT IT WOULD NOT INSTALL THAT WAY. SO THEY INSTALLED IT THE WAY IT WAS. 1 STRATA HAND WALKED OFF JOB. 1 STRATA HAND WENT TO BED. ROUGHNECKS HELPED LAST STRATA HAND INSTALL STRATA EQUIPMENT. STRATA EQUIPMENT IS A TIGHT FIT UNDER RIG.
1/22/2012	0:00 - 3:30	3.50	MIRU	14	A	P		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.
	3:30 - 8:30	5.00	MIRU	15	A	P		INSTALL STRATA ROT HEAD PLUG. PRESSURED UP ON STRATA EQUIPMENT AND EQUIPMENT LEAKED AT ALL FLANGES.
	8:30 - 9:00	0.50	MIRU	15	A	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: DRILLING

Start Date: 10/19/2011

End Date: 1/28/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 13:30	4.50	MIRU	14	A	Z		STRATA HANDS TIGHTEN FLANGES 3 TIMES AND TRIED TESTING 3 TIMES. TWICE WE HAD TO GO GET STRATA HAND OUT OF SHACK SO HE COULD RETIGHTEN FLANGES COULD NOT GET FLANGES TO SEAL. HAD RIG CREW TIGHTEN FLANGES FOR STRATA SO THAT WE COULD GET TEST ON STRATA EQUIPMENT.
	13:30 - 14:00	0.50	MIRU	15	A	P		TEST STRATA EQUIPMENT TO 3000 PSI FOR 10 MIN AND 250 FOR 5 MIN. PULL STRATA ROT HEAD PLUG.
	14:00 - 14:30	0.50	MIRU	14	B	P		INSTALL WEAR BUSHING. PERFORM PRESPUD SAFETY MEETING AND INSPECTION.
	14:30 - 19:00	4.50	MIRU	06	A	P		P/U HUNTING .21 RPG .15 BH MOTOR (SN 6069). M/U HUGHES Q506F W/ 6-15'S. (SN 7029604). SCRIBE MOTOR. INSTALL AND MAKE UP NATIVE NAVIGATION EM TOOL. PROGRAM EM TOOL. RUN IN HOLE WITH HWDP. INSTALL STRAT ROT. HEAD RUBBER.
	19:00 - 20:30	1.50	MIRU	09	A	P		SLIP AND CUT DRILL LINE.
	20:30 - 22:00	1.50	MIRU	06	A	P		TRIP IN HOLE. TAG CEMENT @ 2330'.
	22:00 - 22:30	0.50	MIRU	07	A	P		RIG SERVICE. SERVICE TOP DRIVE.
	22:30 - 23:30	1.00	PROD	02	F	P		SPUD 1/22/2012 22:30. DRILL CEMENT AND FLOAT EQUIPMENT FROM 2330'-2433'. FLOAT SHOE @ 2395'.
	23:30 - 0:00	0.50	PROD	02	D	P		DRILL SLIDE 2433'- 2483' (50'/100'/HR) WOB 15-21K. AVE WOB-19K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1650/1300. 350 DIFF. TORQUE ON/OFF 5000/1650. STRING WT UP/DOWN/ROT 73/64/68. DRAG 5K. COME OUT OF SHOE @ 14 DEGREE AND START DROP. SLIDE 0'. SLIDE 0% ROT 100%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER.
1/23/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 2483'- 3161' (678', 113'/HR) WOB 15-23K. AVE WOB-21K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1800/1350. 450 DIFF. TORQUE ON/OFF 7000/2000. STRING WT UP/DOWN/ROT 76/68/72. DRAG 4K. COME OUT OF SHOE @ 14 DEGREE AND START DROP. SLIDE 130' @ 100'/HR. SLIDE 19% ROT 81%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 38 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 49 BBLS DRILL WATER INTO FORMATION. (LOSING 8 BBLS HR)
	6:00 - 10:30	4.50	DRLPRO	02	D	P		DRILL SLIDE 3161'-3882' (721', 160'/HR) WOB 15-23K. AVE WOB-21K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2000/1600. 400 DIFF. TORQUE ON/OFF 7000/2000. STRING WT UP/DOWN/ROT 90/75/81. DRAG 9K. SLIDE 55' @ 110'/HR. SLIDE 8% ROT 92%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 39 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 66 BBLS DRILL WATER INTO FORMATION. (LOSING 14 BBLS HR) PUMP GEL AND LCM SWEEP TO CONTROL LOSSES.

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6I2AS GREEN		Spud Date: 11/23/2011	
Project: UTAH-UINTAH	Site: BONANZA 1023-6H PAD	Rig Name No: PROPETRO 12/12, XTC 12/12	
Event: DRILLING	Start Date: 10/19/2011	End Date: 1/28/2012	
Active Datum: RKB @5,222.01ft (above Mean Sea Level)		UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:30 - 11:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE PUMP. CHANGE OUT SAVER SUB. SERVICE TOP DRIVE.
	11:00 - 16:00	5.00	DRLPRO	02	D	P		DRILL SLIDE 3882'- 4730' (848',170'/HR) WOB 15-23K. AVE WOB-21K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2050/1700. DIFF 350. TORQUE ON/OFF 8500/3500. STRING WT UP/DOWN/ROT 110/85/97. DRAG 13K. SLIDE 60' @ 120'/HR . SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 46 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 50 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP GEL AND LCM SWEEPS TO CONTROL LOSSES.
	16:00 - 23:30	7.50	DRLPRO	02	D	P		DRILL SLIDE 4730'-5614' (884,110'/HR) WOB 15-23K. AVE WOB-21K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2200/1800. DIFF 400. TORQUE ON/OFF 9000/4500. STRING WT UP/DOWN/ROT 134/99/109. DRAG 25K. SLIDE 65' @ 55'/HR . SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 48 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 56 BBLS DRILL WATER INTO FORMATION. (LOSING 7 BBLS HR) PUMP GEL AND LCM SWEEPS TO CONTROL LOSSES. (SUCKED 300 BBLS OF WATER FROM CUTTING PIT.)
	23:30 - 0:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. SERVICE GENERATORS.
1/24/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 5614'-6079' (465', 77'/HR) WOB 19-24K. AVE WOB-22K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2200/1750. DIFF 450. TORQUE ON/OFF 9500/6500. STRING WT UP/DOWN/ROT 143/110/122. DRAG 21K. SLIDE 165' @ 55'/HR . SLIDE 35% ROT 65%. SLIDING TO PUSH TO NORTH WEST QUADRANT. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ DIRTY WATER. USED 25 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 56 BBLS DRILL WATER INTO FORMATION. (LOSING 8 BBLS HR) PUMP GEL AND LCM SWEEPS TO CONTROL LOSSES.
	6:00 - 6:30	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS. SERVICE TOP DRIVE.
	6:30 - 17:30	11.00	DRLPRO	02	D	P		DRILL SLIDE 6079'- 6972' (893', 81'/HR) WOB 19-25K. AVE WOB-23K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2200/1750. DIFF 450. TORQUE ON/OFF 9500/6500. STRING WT UP/DOWN/ROT 160/120/132. DRAG 28K. SLIDE 100' @ 40'/HR . SLIDE 11% ROT 89%, USED 48 BBLS WATER FOR HOLE VOLUME. LOSS 42 BBLS OF WATER. (LOSING 7 BBLS/ HR ADD LIGHT GEL INTO SYSTEM @ 6700' . WT 8.8 VIS 30. HEALED LOSSES. RUNNING CENTRIFUGES. (BOP DRILL 45 SEC)
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE DRAWWORKS AND GENERATORS.

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: DRILLING

Start Date: 10/19/2011

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Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 20:30	2.50	DRLPRO	02	D	P		DRILL SLIDE 6972'-7029' (57', 23'/HR) WOB 19-25K. AVE WOB-23K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1950/1800. DIFF 150. TORQUE ON/OFF 9500/6500. STRING WT UP/DOWN/ROT 160/120/132. DRAG 28K. SLIDE 0'. SLIDE 0% ROT 100%. WT 9.2 VIS 32. RUNNING CENTRIFUGES. NO LOSSES. (LOSING PRESSURE, DIFF AND ROP) SUSPECTED WASH OUT DOWN HOLE IN BHA.)
	20:30 - 0:00	3.50	DRLPRO	06	G	Z		PUMP 5 JTS OUT OF HOLE WHILE BUILDING 30 BBL 10# DRY JOB. PUMP DRY JOB. TRIP OUT OF HOLE. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. 1 TIGHT SPOT @ 4244'. TRIPPING OUT OF HOLE @ 1300' REPORT TIME.
1/25/2012	0:00 - 2:30	2.50	DRLPRO	06	G	Z		PULL OUT OF HOLE. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER AT HWDP. FIND WASH IN NATIVE NAVIGATION GAP SUB. THAT WAS THE FIRST RUN EVER FOR THAT GAP SUB. LD EM TOOL. BIT AND MOTOR IN GOOD SHAPE.
	2:30 - 10:00	7.50	DRLPRO	06	G	Z		TRIP IN HOLE. P/U NEW EM TOOL AND GAP SUB. TRIP IN HOLE W/ HWDP. INSTALL STRATA ROT HEAD RUBBER. TRIP IN HOLE. GOOD DISPLACEMENT THROUGH OUT TRIP. BREAK CIRC 2300', 5250'. WASH THROUGH BRIDGE @ 6300' AND 6850'. FINISH TRIP TO BOTTOM.
	10:00 - 17:30	7.50	DRLPRO	02	D	P		DRILL SLIDE 7029'-7652' (623', 83'/HR) WOB 19-25K. AVE WOB-24K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2600/2150. DIFF 450. TORQUE ON/OFF 10500/7500. STRING WT UP/DOWN/ROT 177/127/136. DRAG 41K. SLIDE 112' @ 30'/HR. SLIDE 19% ROT 81%.MUD WT 8.9 VIS 36/ MUDOUT WT 8.9 VIS 36. RUNNING CENTRIFUGES. NO LOSSES. NO FLARES.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS. SERVICE TOP DRIVE.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 7652'-7924' (272', 45'/HR) WOB 19-25K. AVE WOB-24K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2650/2200. DIFF 450. TORQUE ON/OFF 11000/7200. STRING WT UP/DOWN/ROT 176/127/139. DRAG 37K. ROT AVE ROP- 97'/HR. SLIDE 70' @ 28'/HR. SLIDE 42% ROT 58%.MUD WT 9.0 VIS 37/ MUDOUT WT 9 VIS 37. (SLIDING TO STAY IN TARGET. EM TOOL IS PICKING UP SOME INTERMITENT SOUND THAT HAS PUT THE EM TOOL IN CHIRP MODE, NOW EVERY TIME AN ADJUSTMENT IS MADE W/ TOP DRIVE THE DIRECTIONAL HAND LOSES TOOL FACES AND HAS TO WAIT FOR TOOL TO RE-SYNC.) RUNNING CENTRIFUGES. NO LOSSES. NO FLARES. STRATA OFF LINE.

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6I2AS GREEN Spud Date: 11/23/2011
 Project: UTAH-UINTAH Site: BONANZA 1023-6H PAD Rig Name No: PROPETRO 12/12, XTC 12/12
 Event: DRILLING Start Date: 10/19/2011 End Date: 1/28/2012
 Active Datum: RKB @5,222.01ft (above Mean Sea Level) UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/26/2012	0:00 - 5:00	5.00	DRLPRO	02	D	P		DRILL SLIDE 7924'- 8106' (182', 36'/HR) WOB 19-25K. AVE WOB-24K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2650/2200. DIFF 450. TORQUE ON/OFF 11000/7200. STRING WT UP/DOWN/ROT 175/127/139. DRAG 37K. ROT AVE ROP- 80'/HR. SLIDE 92' @ 25'/HR. SLIDE 51% ROT 49%. MUD WT 9.0 VIS 37 MUD OUT WT 9.0+ VIS 38. (SLIDING TO STAY IN TARGET, PROBLEMS WITH EM TOOL PICKING UP NOISE.) NO FLARE. NO LOSSES. RUNNING CENTRIFUGES.
	5:00 - 5:30	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS.
	5:30 - 13:30	8.00	DRLPRO	02	D	P		DRILL SLIDE 8106'-8587'(481', 60'/HR) TD 1/26/2011 13:30 WOB 19-25K. AVE WOB-24K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2700/2300. DIFF 400. TORQUE ON/OFF 11000/7200. STRING WT UP/DOWN/ROT 185/131/142. DRAG 43K. ROT AVE ROP- 93'/HR. SLIDE 65' @ 25'/HR. SLIDE 14% ROT 86%. MUD WT 9.0 VIS 35 MUD OUT WT 9.1 VIS 36. RUNNING CENTRIFUGES. (SLIDING TO STAY IN TARGET, ROTATED LAST 300' FEET.) 2' FLARE FROM 8150'. 2-5' FLARE FROM 8450'. DID NOT NEED STRATA ON LINE. (BOP DRILL)
	13:30 - 16:30	3.00	EVALPR	05	B	P		DISPLACE 9# MUD OUT OF HOLE W/ 780 BBLs 11.5# MUD. STORE 700 BBLs OF 9# MUD. SWEEP HOLE WITH LCM SWEEPS TO CLEAN HOLE AND HELP PREVENT LOSSES. MUD IN 11.5 VIS 39. MUD OUT 11.6 VIS 42. MIX 40 BBL 13.0# PILL AND PUMP FOR DRY JOB. (RIG SERVICE WHILE CIRCULATING.) (NO LOSSES WHILE WEIGHTING UP.
	16:30 - 20:30	4.00	EVALPR	06	E	P		WIPER TRIP TO SHOE. PULL 10 JTS AND BLOW DOWN TOP DRIVE. PULL STRAIGHT OFF BOTTOM 58K OVERPULL. HOLE PULLING SLICK. 1 GRABBY SPOT @ 5435'. HOLE TOOK PROPER FLUID ON TRIP. NO FLOWS ON FLOW CHECK.
	20:30 - 0:00	3.50	EVALPR	06	E			WIPER TRIP BACK IN HOLE. HOLE WAS SLICK EXCEPT BRIDGE @ 6310'. WASH THROUGH BRIDGE @ 6310'. GOOD DISPLACEMENT THROUGH OUT TRIP. TRIPPING IN @ 8000' REPORT TIME.
1/27/2012	0:00 - 0:30	0.50	EVALPR	06	E	P		WIPER TRIP IN HOLE. NO FILL. NO LOSSES ON TRIP.
	0:30 - 2:30	2.00	EVALPR	05	A	P		CIRCULATE AND CONDITON HOLE. MUD IN WT 11.5 VIS 41. MUD OUT WT 11.5 VIS 40. PUMP 30 BBL 20% LCM SWEEP AROUND. HOLE CLEAN. MIX 30 BBL 13# PILL FOR DRY JOB.
	2:30 - 8:00	5.50	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS. PULL STRAIGHT OFF BOTTOM @ 45K OVER PULL. PULL 4 JTS PUMP DRY JOB AND BLOW OUT TOP DRIVE. LITTLE STICK FROM 8200'-7900' WITH 50 K OVER PULL. HOLE PULLING SLICK AFTER 7900'. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER. LD HWDP.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: DRILLING

Start Date: 10/19/2011

End Date: 1/28/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/0/10/S/23/E/6/0/0/28/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 10:00	2.00	EVALPR	21	E	Z		WAIT ON HALLIBURTON LOGGERS. THERE WAS MISUNDERSTANDING BETWEEN LOG COORDINATOR AND LOGGING ENGINEER ABOUT WHAT TIME TO BE ON LOCATION. HALLIBURTON WAS TO BE ON LOCATION @ 07:00.
	10:00 - 15:30	5.50	EVALPR	11	D	P		HOLD SAFETY MEETING AND RIG UP HALLIBURTON LOGGERS. P/U TRIPLE COMBO TOOLS AND RUN IN HOLE. RUN TRIPLE COMBO LOGS FROM 8569'-2395'. RIG DOWN LOGGERS.
	15:30 - 16:00	0.50	CSG	07	A	P		RIG SERVICE. PULL WEAR BUSHING. HOLD SAFETY MEETING WITH KIMZEY CSG.
	16:00 - 16:30	0.50	CSG	12	A	P		RIG UP KIMZEY CSG. RIG UP TORQUE TURN.
	16:30 - 0:00	7.50	CSG	12	C	P		P/U 4.5" I-80 8RD DCT AUTO FILL FLOAT SHOE AND FLOAT COLLAR. MAKE UP ON SHOE JT WITH THREAD LOCK. START RUNNING IN HOLE WITH 4.5" I-80 11.6# LTC CSG INSTALLING CENTRALIZERS FIRST 3 JTS AND EVERY THIRD JT FOR TOTAL OF 15 CENTRALIZERS. START TORQUE TURN ON DQX CSG AFTER 84 JTS. RUNNING CSG @ 7000' REPORT TIME.
1/28/2012	0:00 - 2:30	2.50	CSG	12	C	P		FINISH RUNNING CSG FOR TOTAL OF 84 JTS OF 4.5" 11.6# I-80 LTC AND 119 JTS OF 4.5" 11.6# I-80 DQX CSG W/ TORQUE TURN. SET FLOAT SHOE @ 8577.2' KB, SET FLOAT COLLAR @ 8532.3' KB. SET TOP OF MESA MARKER JT @ 6366.4' KB. SET TOP DQX TO LTC CROSS OVER JT @ 4996.1' KB. CSG STOPPED AUTO FILLING @ 6100'. PUMP ON CSG @ 6100' TO CLEAR FLOATS. RUN CSG TO BOTTOM. WASH DOWN LAST 10' OF CSG. BAKER HUGHES ON LOCATION @ 10:00 PM.
	2:30 - 3:30	1.00	CSG	05	D	P		CIRC BOTTOM UP GAS OF 15' FLARE W/ 11.5#/ 38 VIS MUD. RIG DOWN KIMZEY CSG. HOLD SAFETY MEETING W/ BAKER HUGHES CEMENTERS.
	3:30 - 6:30	3.00	CSG	12	E	P		PRESSURE TEST TO 4500 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 166 BBLS (414 SX) OF 12.0 PPG 2.26 YD 12.48 GAL/SK OF LEAD CEMENT. PUMP 242 BBLS (1040 SX) OF 14.3# 1.31 YD 5.90 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 132.6 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. FULL RETURN THROUGH OUT DISPLACEMENT. 5 BBLS OF LEAD TO SURFACE. LIFT PSI OF 2200 @ 3 BBLS MIN. BUMP PLUG 2900 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 15', EST TOC FOR TAIL 3700'. RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER. BLOW OUT MUD LINES. RAN CENTRIFUGES WHILE CEMENTING TO CLEAN LOW GRAVITY SOLIDS OUT OF MUD STORED 780 BBLS OF 11.5# MUD IN UPRIGHTS. AND STORED 60 BBLS OF 11.0# MUD IN PILL TANK.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN		Spud Date: 11/23/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-6H PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 10/19/2011	End Date: 1/28/2012
Active Datum: RKB @5,222.01ft (above Mean Sea Level)		UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:30 - 9:00	2.50	CSG	14	A	P		HOLD SAFETY MEETING AND RIG DOWN STRATA CHOKE VALVE. ORBIT VALVE. CSG PRESSURE SENSORS AND EQUILIZATION LINE.. REMOVE CLAMP FROM ROT HEAD.
	9:00 - 11:00	2.00	CSG	14	A	P		NIPPLE DOWN BOPE. SET C-22 SLIPS UNDER STACK @ 100K.. CUT CSG. PREP RIG FOR SKID AND CLEAN MUD TANKS. RELEASE RIG 1/28/2012 11:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6I2AS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-6I2AS	Wellbore Name	BONANZA 1023-6I2AS
Report No.	1	Report Date	3/21/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-6H PAD
Rig Name/No.	SWABBCO 6/6	Event	COMPLETION
Start Date	3/21/2012	End Date	3/22/2012
Spud Date	11/23/2011	Active Datum	RKB @5,222.01ft (above Mean Sea Level)
UWI	SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	5,574.0 (ft)-8,499.0 (ft)	Start Date/Time	3/15/2012 12:00AM
No. of Intervals	36	End Date/Time	3/15/2012 12:00AM
Total Shots	186	Net Perforation Interval	56.00 (ft)
Avg Shot Density	3.32 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/15/2012 12:00AM	WASATCH/			5,574.0	5,576.0	3.00		0.360	EXP/	3.375	120.00			23.00	PRODUCTIO N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/15/2012 12:00AM	WASATCH/			5,593.0	5,594.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	WASATCH/			5,610.0	5,611.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	WASATCH/			5,665.0	5,666.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	WASATCH/			5,781.0	5,782.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	WASATCH/			5,867.0	5,868.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	WASATCH/			6,123.0	6,126.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	WASATCH/			6,237.0	6,240.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,064.0	7,065.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,162.0	7,164.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,186.0	7,188.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,297.0	7,300.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,508.0	7,510.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,530.0	7,532.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,574.0	7,576.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,612.0	7,614.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,658.0	7,660.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,694.0	7,695.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,729.0	7,730.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,778.0	7,779.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,810.0	7,812.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,853.0	7,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/15/2012 12:00AM	MESAVERDE/			7,889.0	7,890.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,924.0	7,926.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,957.0	7,958.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			7,967.0	7,968.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,004.0	8,005.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,011.0	8,012.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,049.0	8,051.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,133.0	8,134.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,197.0	8,200.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,285.0	8,286.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,302.0	8,303.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,367.0	8,369.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,462.0	8,463.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/15/2012 12:00AM	MESAVERDE/			8,498.0	8,499.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: COMPLETION

Start Date: 3/21/2012

End Date: 3/22/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/29/2012	11:15 - 12:45	1.50	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 18 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 63 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 53 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWFW
3/1/2012	7:00 - 10:00	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. SWFW
3/12/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, REVIEW WELL PLATT, FRAC DESIGN

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: COMPLETION

Start Date: 3/21/2012

End Date: 3/22/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/O/10/S/23/E/6/O/0/26/PM/N/2192/E/0/644/O/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 19:00	11.50	COMP	36	B	P		MIRU SUPERIOR [ROCK SPRINGS]
								<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>FRAC STG #1] WHP=1,331#, BRK DN PERFS=3,050#, @=3.5 BPM, INJ RT=49.1, INJ PSI=4,138#, INITIAL ISIP=2,389#, INITIAL FG=.72, FINAL ISIP=2,322#, FINAL FG=.72, AVERAGE RATE=48.4, AVERAGE PRESSURE=4,081#, MAX RATE=49.8, MAX PRESSURE=6,084#, NET PRESSURE INCREASE=-62#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,230', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=1,963#, BRK DN PERFS=3,289#, @=3.4 BPM, INJ RT=41.7, INJ PSI=5,326#, INITIAL ISIP=2,282#, INITIAL FG=.72, FINAL ISIP=2,237#, FINAL FG=.71, AVERAGE RATE=46.8, AVERAGE PRESSURE=4,324#, MAX RATE=49.9, MAX PRESSURE=6,032#, NET PRESSURE INCREASE=-46#, 15/24 63% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,032', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=1,970#, BRK DN PERFS=3,300#, @=3.8 BPM, INJ RT=48.2, INJ PSI=5,379#, INITIAL ISIP=2,000#, INITIAL FG=.69, FINAL ISIP=2,560#, FINAL FG=.76, AVERAGE RATE=49.6, AVERAGE PRESSURE=3,764#, MAX RATE=50, MAX PRESSURE=5,859#, NET PRESSURE INCREASE=560#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,842', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SWMFN</p>
3/13/2012	6:45 - 7:00	0.25	COMP	48		P		HSM, OPENING & CLOSING VALVES

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN		Spud Date: 11/23/2011	
Project: UTAH-UINTAH	Site: BONANZA 1023-6H PAD	Rig Name No: SWABBCO 6/6, SWABBCO 6/6	
Event: COMPLETION	Start Date: 3/21/2012	End Date: 3/22/2012	
Active Datum: RKB @5,222.01ft (above Mean Sea Level)		UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG #4] WHP=1,098#, BRK DN PERFS=2,941#, @=3.8 BPM, INJ RT=49.3, INJ PSI=4,162#, INITIAL ISIP=1,766#, INITIAL FG=.69, FINAL ISIP=2,211#, FINAL FG=.72, AVERAGE RATE=49.3, AVERAGE PRESSURE=4,234#, MAX RATE=49.8, MAX PRESSURE=5,434#, NET PRESSURE INCREASE=445#, 21/21 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,644', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP=1,093#, BRK DN PERFS=2,715#, @=3.7 BPM, INJ RT=49, INJ PSI=5,114#, INITIAL ISIP=1,653#, INITIAL FG=.66, FINAL ISIP=1,782#, FINAL FG=.67, AVERAGE RATE=49.2, AVERAGE PRESSURE=3,726#, MAX RATE=49.8, MAX PRESSURE=5,780#, NET PRESSURE INCREASE=129#, 17/24 70% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,330', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=347#, BRK DN PERFS=2,604#, @=3.8 BPM, INJ RT=48.9, INJ PSI=3,840#, INITIAL ISIP=1,454#, INITIAL FG=.61, FINAL ISIP=2,644#, FINAL FG=.78, AVERAGE RATE=47.7, AVERAGE PRESSURE=3,993#, MAX RATE=49.9, MAX PRESSURE=6,130#, NET PRESSURE INCREASE=1,190#, 21/24 87% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,270', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SWIFN</p>
3/14/2012	6:45 - 7:00	0.25	COMP	48		P		HSM, FINISH FRAC / RIGGING DOWN

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

Rig Name No: SWABBCCO 6/6, SWABBCCO 6/6

Event: COMPLETION

Start Date: 3/21/2012

End Date: 3/22/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/O/10/S/23/E/6/O/0/26/PM/N/2192/E/0/644/O/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 13:00	6.00	COMP	36	B	P		<p>FRAC STG #7] WHP=386#, BRK DN PERFS=2,694#, @=3.3 BPM, INJ RT=49.2, INJ PSI=4,476#, INITIAL ISIP=1,729#, INITIAL FG=.72, FINAL ISIP=2,301#, FINAL FG=.81, AVERAGE RATE=49.6, AVERAGE PRESSURE=4,231#, MAX RATE=50, MAX PRESSURE=5,567#, NET PRESSURE INCREASE=572#, 17/24 73% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,898', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=570#, BRK DN PERFS=2,827#, @=3.7 BPM, INJ RT=49.6, INJ PSI=3,647#, INITIAL ISIP=818#, INITIAL FG=.58, FINAL ISIP=1,244#, FINAL FG=.81, AVERAGE RATE=49.6, AVERAGE PRESSURE=2,960#, MAX RATE=50.3, MAX PRESSURE=4,509#, NET PRESSURE INCREASE=426#, 18/21 86% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=5,524'</p> <p>TOTAL FLUID PUMP'D=7,772 BBLS TOTAL SAND PUMP'D=174,114# JSA= DRILLING HEAD</p>
3/21/2012	7:00 - 7:15	0.25	COMP	48		P		

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6I2AS GREEN		Spud Date: 11/23/2011	
Project: UTAH-UINTAH	Site: BONANZA 1023-6H PAD	Rig Name No: SWABBCO 6/6, SWABBCO 6/6	
Event: COMPLETION	Start Date: 3/21/2012	End Date: 3/22/2012	
Active Datum: RKB @5,222.01ft (above Mean Sea Level)		UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	30		P		RD RIG ON 6H2CS MOVE RU ON 6I2AS SIWP= 0 PSI ND WELLHEAD NU BOPS RU FLOOR & TUBING EQUIP SPOT IN TUBING PU 3-7/8" BIT & POBS PKG RIH TAG PLUG @ 5524' RU DRILLING EQUIP EST CIRC TEST BOPS TO 3000# DRILL THRU 1ST PLUG PLUG #1] DRILLTHRU HALLI 8K CBP @ 5524' IN 12 MIN W/ 50# INCREASE PLUG #2] CONTINUE TO RIH TAG SAND @ 5876' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 5905' IN 10 MIN W/ 0 INCREASE PLUG #3] CONTINUE TO RIH TAG SAND @6238' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6268' IN 7 MIN W/ 50# INCREASE PLUG #4] CONTINUE TO RIH TAG SAND @ 7300' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7330' IN 8 MIN W/ 100# INCREASE PLUG #5] CONTINUE TO RIH TAG SAND @ 7619' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7644' IN 11 MIN W/ 0 INCREASE PLUG #6] CONTINUE TO RIH TAG SAND @ 7812' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7842' IN 8 MIN W/ 150# INCREASE ALLOW WELL TO FLOW 45 MIN TO CLEAN UP SIW SDFN JSA=
3/22/2012	7:00 - 7:15	0.25	COMP	48		P		

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6I2AS GREEN

Spud Date: 11/23/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-6H PAD

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

Event: COMPLETION

Start Date: 3/21/2012

End Date: 3/22/2012

Active Datum: RKB @5,222.01ft (above Mean Sea Level)

UWI: SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 12:00	4.75	COMP	30		P		<p>SIWP= 1400# OPEN WELL TO PIT CONTINUE TO RIH TAG SAND ON PLUG # 7</p> <p>PLUG #7] TAG SAND @ 8007' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @8032' IN 7 MIN W/ 0 INCREASE</p> <p>PLUG #8] CONTINUE TO RIH TAG SAND @ 8197' (40' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8237' IN 6 MIN W/ 100# INCREASE</p> <p>PBTD] CONTINUE TO RIH TAG SAND @ 8502' (30' FILL) C/O TO PBTD CIRC CLEAN PUH LD 17 JNTS LAND TUBING ON HNGR W/ 252 JNTS 2-3/8" L-80 EOT @ 8012.61' (300# FLOWING ON WELL) RD DRILLING EQUIP RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD DROP BALL PUMP OFF BIT @ 0 # SIW TURN WELL OVER TO FBC RD RIG MOVE TO 6G1DS</p> <p>TUBING DETAIL K.B.....15.00' HANGER.....68' 252 JNTS L-80 2-3/8".....7994.55' 1.87XN POBS.....2.20' EOT@.....8012.61'</p> <p>TOTAL FLUID PUMPED = 7772 BBLS RIG REC= 2500 BBLS LEFT TO REC= 5272 BBLS</p> <p>CTAP DEL= 283 JNTS USED= 252 JNTS RETURNED= 31 JNTS</p> <p>WELL TURNED TO SALES AT 1130 HR ON 3/22/2012 - 800 MCFD, 1920 BWP, FCP 1394#, FTP 1350#, 20/64 CK</p>
	11:30 -		COMP	50				

1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023-6I2AS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-6I2AS	Common Name	BONANZA 1023-6I2AS
Project	UTAH-UINTAH	Site	BONANZA 1023-6H PAD
Vertical Section Azimuth	211.39 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	11/23/2011	UWI	SE/NE/0/10/S/23/E/6/0/0/26/PM/N/2192/E/0/644/ 0/0
Active Datum	RKB @5,222.01ft (above Mean Sea Level)		

2 Survey Name**2.1 Survey Name: Survey #1**

Survey Name	Survey #1	Company	Anadarko Petroleum Corp
Started	11/23/2011	Ended	
Tool Name		Engineer	Anadarko Employee

2.1.1 Tie On Point

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

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/23/2011	Tie On	11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/24/2011	NORMAL	192.00	0.41	51.25	192.00	0.41	0.51	-0.61	0.23	0.23	0.00	51.25
	NORMAL	277.00	0.57	236.09	277.00	0.36	0.39	-0.51	1.15	0.19	-206.07	-177.18
	NORMAL	361.00	2.13	230.74	360.97	-0.86	-1.16	1.34	1.86	1.86	-6.37	-7.30
	NORMAL	451.00	3.96	223.78	450.84	-4.16	-4.61	5.96	2.07	2.03	-7.73	-14.91
	NORMAL	541.00	5.55	221.74	540.53	-9.66	-9.66	13.27	1.78	1.77	-2.27	-7.09
	NORMAL	631.00	7.07	211.75	629.98	-17.61	-15.47	23.09	2.08	1.69	-11.10	-40.88
	NORMAL	721.00	8.66	210.38	719.14	-28.17	-21.81	35.41	1.78	1.77	-1.52	-7.40
	NORMAL	811.00	10.15	211.85	807.92	-40.75	-29.42	50.11	1.68	1.66	1.63	9.88
	NORMAL	901.00	11.62	212.53	896.30	-55.13	-38.48	67.11	1.64	1.63	0.76	5.33
	NORMAL	991.00	13.04	215.63	984.22	-71.03	-49.27	86.29	1.74	1.58	3.44	26.51
	NORMAL	1,081.00	13.49	215.56	1,071.82	-87.82	-61.29	106.89	0.50	0.50	-0.08	-2.08
	NORMAL	1,171.00	13.82	216.53	1,159.28	-105.00	-73.80	128.07	0.45	0.37	1.08	35.23
	NORMAL	1,261.00	14.13	213.33	1,246.62	-122.81	-86.23	149.75	0.93	0.34	-3.56	-69.70
	NORMAL	1,351.00	14.58	212.27	1,333.81	-141.57	-98.31	172.06	0.58	0.50	-1.18	-30.80
	NORMAL	1,441.00	14.87	210.79	1,420.85	-161.07	-110.27	194.93	0.53	0.32	-1.64	-53.09
	NORMAL	1,531.00	15.20	209.19	1,507.77	-181.29	-121.94	218.27	0.59	0.37	-1.78	-52.29
	NORMAL	1,621.00	14.16	207.03	1,594.83	-201.40	-132.70	241.04	1.31	-1.16	-2.40	-153.28
	NORMAL	1,711.00	13.81	207.80	1,682.17	-220.70	-142.71	262.73	0.44	-0.39	0.86	152.37

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/24/2011	NORMAL	1,801.00	12.49	210.10	1,769.80	-238.63	-152.60	283.19	1.58	-1.47	2.56	159.49
	NORMAL	1,891.00	12.85	211.13	1,857.61	-255.61	-162.66	302.92	0.47	0.40	1.14	32.61
	NORMAL	1,981.00	11.96	220.90	1,945.52	-271.23	-173.94	322.13	2.53	-0.99	10.86	117.70
	NORMAL	2,071.00	13.03	220.77	2,033.39	-285.96	-186.67	341.34	1.19	1.19	-0.14	-1.57
	NORMAL	2,161.00	14.32	218.74	2,120.84	-302.33	-200.26	362.39	1.53	1.43	-2.26	-21.40
11/25/2011	NORMAL	2,251.00	13.95	216.37	2,208.11	-319.75	-213.66	384.23	0.76	-0.41	-2.63	-123.74
	NORMAL	2,371.00	13.86	218.36	2,324.60	-342.66	-231.16	412.91	0.41	-0.07	1.66	101.62

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	NATIVE NAVIGATION
Started	1/22/2012	Ended	
Tool Name	EM	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,370.50	13.86	218.36	2,324.09	-342.66	-231.16

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/22/2012	Tie On	2,370.50	13.86	218.36	2,324.09	-342.66	-231.16	412.91	0.00	0.00	0.00	0.00
1/22/2012	NORMAL	2,430.00	13.80	217.50	2,381.87	-353.88	-239.90	427.04	0.36	-0.10	-1.45	-106.69
1/23/2012	NORMAL	2,521.01	11.51	210.99	2,470.66	-370.28	-251.19	446.92	2.96	-2.52	-7.15	-151.23
	NORMAL	2,612.01	10.20	218.55	2,560.03	-384.36	-260.88	463.99	2.12	-1.44	8.31	136.29
	NORMAL	2,703.01	9.05	224.88	2,649.75	-395.73	-270.96	478.95	1.72	-1.26	6.96	140.47
	NORMAL	2,793.01	8.26	221.45	2,738.73	-405.60	-280.23	492.19	1.05	-0.88	-3.81	-148.53
	NORMAL	2,884.01	7.25	218.72	2,828.90	-414.98	-288.15	504.33	1.18	-1.11	-3.00	-161.31
	NORMAL	2,975.01	5.32	228.22	2,919.35	-422.27	-294.89	514.06	2.40	-2.12	10.44	156.35
	NORMAL	3,066.01	4.48	225.40	3,010.01	-427.57	-300.56	521.55	0.96	-0.92	-3.10	-165.40
	NORMAL	3,156.01	3.34	221.18	3,099.80	-432.02	-304.79	527.54	1.31	-1.27	-4.69	-167.93
	NORMAL	3,247.01	3.74	218.02	3,190.63	-436.35	-308.37	533.10	0.49	0.44	-3.47	-27.59
	NORMAL	3,338.01	3.25	217.49	3,281.46	-440.73	-311.77	538.62	0.54	-0.54	-0.58	-176.49
	NORMAL	3,429.01	2.81	213.45	3,372.33	-444.64	-314.56	543.41	0.54	-0.48	-4.44	-156.12
	NORMAL	3,519.01	2.15	215.82	3,462.25	-447.85	-316.77	547.30	0.74	-0.73	2.63	172.35
	NORMAL	3,610.01	2.42	209.58	3,553.18	-450.91	-318.72	550.92	0.40	0.30	-6.86	-45.80
	NORMAL	3,701.01	2.11	217.84	3,644.11	-453.90	-320.69	554.50	0.49	-0.34	9.08	137.60
	NORMAL	3,791.01	2.33	209.58	3,734.04	-456.80	-322.61	557.98	0.43	0.24	-9.18	-59.66
	NORMAL	3,882.01	2.24	206.45	3,824.97	-460.00	-324.32	561.60	0.17	-0.10	-3.44	-127.36
	NORMAL	3,973.01	1.85	224.44	3,915.91	-462.64	-326.14	564.80	0.82	-0.43	19.77	130.06
	NORMAL	4,064.01	1.80	218.28	4,006.86	-464.81	-328.05	567.65	0.22	-0.05	-6.77	-107.36
	NORMAL	4,155.01	1.80	233.40	4,097.82	-466.79	-330.08	570.40	0.52	0.00	16.62	97.56
	NORMAL	4,245.01	1.98	221.18	4,187.77	-468.80	-332.24	573.24	0.49	0.20	-13.58	-72.12
	NORMAL	4,336.01	0.48	206.33	4,278.75	-470.32	-333.45	575.17	1.67	-1.65	-16.32	-175.36
	NORMAL	4,427.01	0.53	195.87	4,369.74	-471.07	-333.73	575.95	0.12	0.05	-11.49	-66.82
	NORMAL	4,517.01	0.57	199.48	4,459.74	-471.89	-333.99	576.79	0.06	0.04	4.01	42.72
	NORMAL	4,608.01	0.79	171.44	4,550.73	-472.94	-334.05	577.72	0.43	0.24	-30.81	-71.08
	NORMAL	4,699.01	0.88	190.51	4,641.72	-474.25	-334.09	578.85	0.32	0.10	20.96	81.74
	NORMAL	4,790.01	0.53	112.46	4,732.72	-475.10	-333.82	579.44	1.02	-0.38	-85.77	-146.05
	NORMAL	4,880.01	0.62	128.81	4,822.72	-475.56	-333.06	579.44	0.21	0.10	18.17	69.59
	NORMAL	4,971.01	0.66	108.68	4,913.71	-476.04	-332.18	579.38	0.25	0.04	-22.12	-90.08
	NORMAL	5,062.01	0.52	135.40	5,004.71	-476.50	-331.39	579.37	0.33	-0.15	29.36	129.90
	NORMAL	5,152.01	0.53	138.22	5,094.70	-477.10	-330.83	579.59	0.03	0.01	3.13	70.26

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/23/2012	NORMAL	5,243.01	1.01	126.26	5,185.69	-477.89	-329.90	579.78	0.55	0.53	-13.14	-24.56
	NORMAL	5,334.01	0.97	142.79	5,276.68	-478.98	-328.79	580.13	0.32	-0.04	18.16	106.18
	NORMAL	5,425.01	1.45	147.36	5,367.66	-480.56	-327.70	580.91	0.54	0.53	5.02	13.66
	NORMAL	5,516.01	1.67	151.75	5,458.63	-482.70	-326.45	582.09	0.27	0.24	4.82	30.72
	NORMAL	5,606.01	1.63	165.55	5,548.59	-485.09	-325.51	583.64	0.44	-0.04	15.33	102.62
1/24/2012	NORMAL	5,697.01	1.10	179.88	5,639.56	-487.22	-325.19	585.29	0.69	-0.58	15.75	154.24
	NORMAL	5,788.01	1.31	179.43	5,730.54	-489.13	-325.18	586.91	0.23	0.23	-0.49	-2.81
	NORMAL	5,879.01	1.14	144.63	5,821.52	-490.91	-324.64	588.15	0.82	-0.19	-38.24	-119.88
	NORMAL	5,969.01	0.62	111.76	5,911.51	-491.82	-323.67	588.43	0.78	-0.58	-36.52	-151.48
	NORMAL	6,060.01	0.97	84.34	6,002.51	-491.93	-322.45	587.88	0.56	0.38	-30.13	-61.65
	NORMAL	6,151.01	0.75	72.56	6,093.50	-491.67	-321.11	586.97	0.31	-0.24	-12.95	-147.00
	NORMAL	6,241.01	1.19	64.65	6,183.48	-491.10	-319.71	585.74	0.51	0.49	-8.79	-20.91
	NORMAL	6,332.01	1.58	30.81	6,274.46	-489.61	-318.21	583.70	0.98	0.43	-37.19	-82.08
	NORMAL	6,423.01	1.63	23.87	6,365.42	-487.35	-317.04	581.16	0.22	0.05	-7.63	-79.06
	NORMAL	6,513.01	1.14	32.40	6,455.40	-485.43	-316.05	579.00	0.59	-0.54	9.48	161.41
	NORMAL	6,604.01	0.87	353.11	6,546.38	-483.98	-315.64	577.55	0.79	-0.30	-43.18	-130.26
	NORMAL	6,695.01	1.23	3.65	6,637.37	-482.31	-315.67	576.14	0.45	0.40	11.58	33.55
	NORMAL	6,786.01	1.27	17.01	6,728.35	-480.38	-315.31	574.30	0.32	0.04	14.68	88.90
	NORMAL	6,877.01	0.70	39.97	6,819.33	-478.99	-314.66	572.77	0.75	-0.63	25.23	156.41
	NORMAL	6,967.01	0.79	49.27	6,909.33	-478.16	-313.83	571.64	0.17	0.10	10.33	58.05
1/25/2012	NORMAL	7,058.01	0.70	86.36	7,000.32	-477.71	-312.80	570.72	0.53	-0.10	40.76	118.75
	NORMAL	7,149.01	1.32	97.70	7,091.30	-477.82	-311.21	569.98	0.71	0.68	12.46	23.59
	NORMAL	7,239.01	1.19	122.57	7,181.28	-478.46	-309.39	569.59	0.62	-0.14	27.63	115.65
	NORMAL	7,330.01	1.71	120.64	7,272.25	-479.66	-307.43	569.59	0.57	0.57	-2.12	-6.33
	NORMAL	7,421.02	1.85	124.50	7,363.21	-481.19	-305.05	569.65	0.20	0.15	4.24	42.52
	NORMAL	7,512.02	2.02	127.32	7,454.16	-482.99	-302.57	569.90	0.21	0.19	3.10	30.67
	NORMAL	7,603.02	2.11	132.15	7,545.10	-485.09	-300.05	570.37	0.22	0.10	5.31	65.08
	NORMAL	7,693.02	1.63	129.34	7,635.05	-487.01	-297.83	570.86	0.54	-0.53	-3.12	-170.59
	NORMAL	7,784.02	2.37	137.95	7,726.00	-489.23	-295.57	571.58	0.88	0.81	9.46	26.44
	NORMAL	7,875.02	2.29	128.55	7,816.92	-491.76	-292.89	572.34	0.43	-0.09	-10.33	-106.49
1/26/2012	NORMAL	7,966.02	2.11	131.18	7,907.85	-493.99	-290.20	572.85	0.23	-0.20	2.89	152.02
	NORMAL	8,056.02	1.36	148.58	7,997.81	-496.00	-288.40	573.62	1.01	-0.83	19.33	153.40
	NORMAL	8,147.02	1.01	151.31	8,088.79	-497.62	-287.45	574.51	0.39	-0.38	3.00	172.20
	NORMAL	8,238.02	0.48	161.07	8,179.79	-498.69	-286.94	575.16	0.60	-0.58	10.73	171.38
	NORMAL	8,329.02	0.48	137.07	8,270.78	-499.33	-286.56	575.50	0.22	0.00	-26.37	-102.00
	NORMAL	8,465.02	1.27	121.96	8,406.77	-500.54	-284.89	575.67	0.60	0.58	-11.11	-23.93
	NORMAL	8,537.02	2.11	129.69	8,478.74	-501.81	-283.20	575.87	1.21	1.17	10.74	19.07
	NORMAL	8,587.02	2.11	129.69	8,528.70	-502.99	-281.78	576.14	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