

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

FORM 3
AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER Bonanza 1023-5G2AS		
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 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 33433		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	2054 FNL 1424 FEL	SWNE	5	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1495 FNL 2090 FEL	SWNE	5	10.0 S	23.0 E	S
At Total Depth	1495 FNL 2090 FEL	SWNE	5	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1495		23. NUMBER OF ACRES IN DRILLING UNIT 321		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 360		26. PROPOSED DEPTH MD: 8701 TVD: 8520		
27. ELEVATION - GROUND LEVEL 5319		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 Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 06/09/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047504860000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

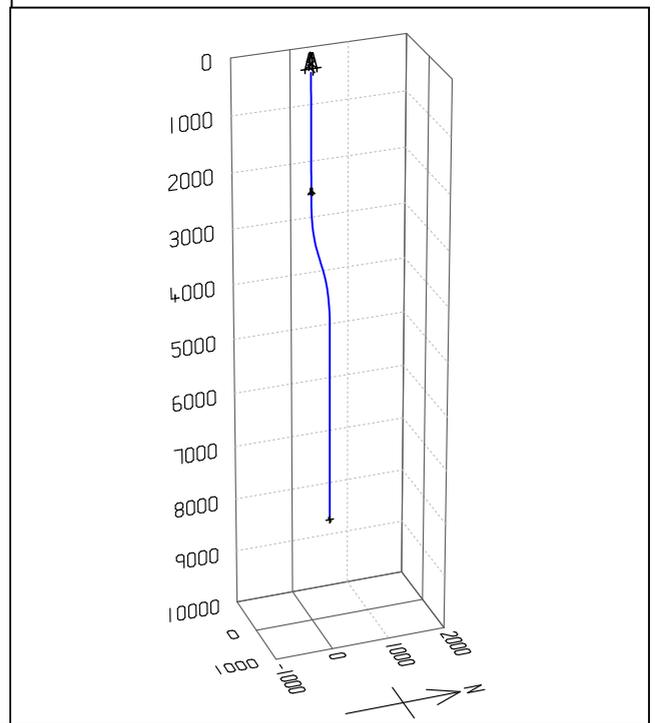
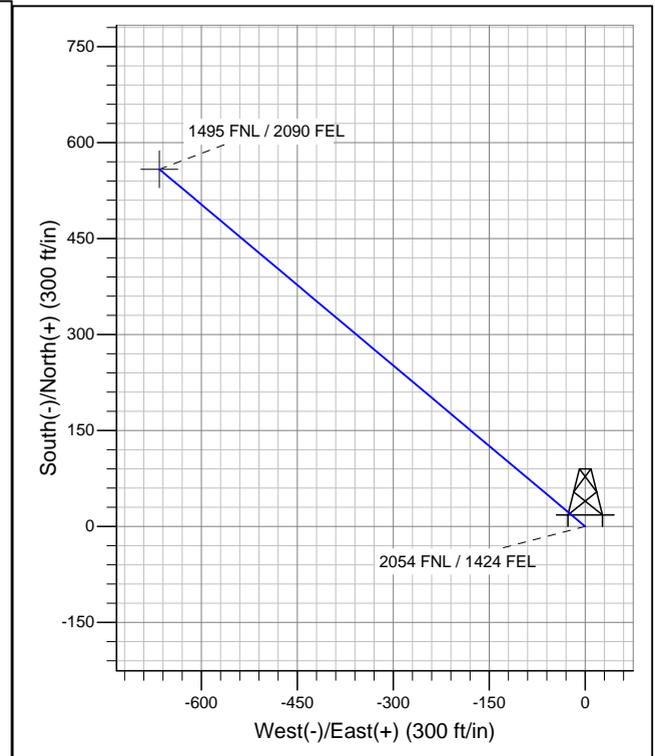
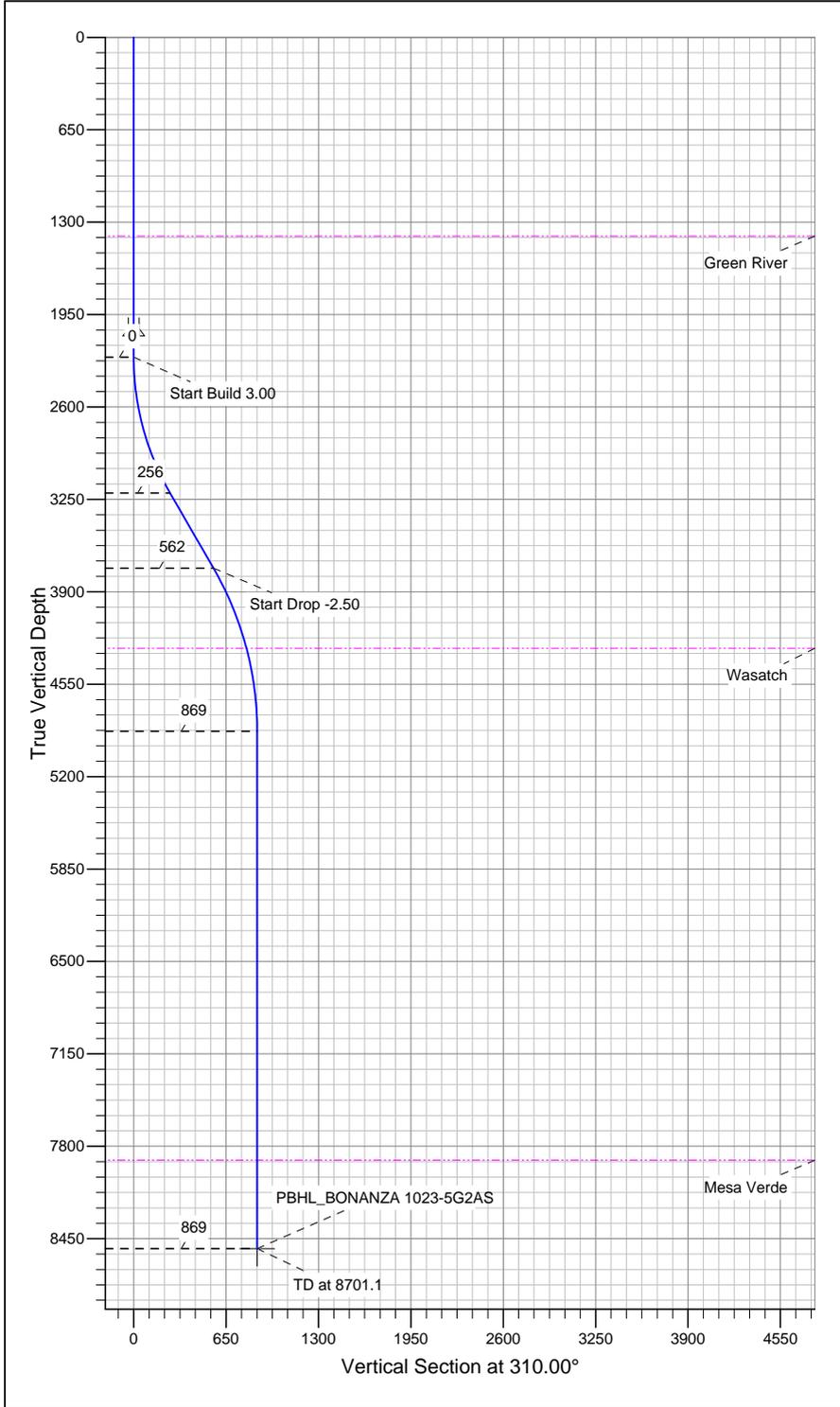
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8701		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	8701	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2285		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2285	36.0			



Well Name: P_BONANZA 1023-5G2AS
 Surface Location: UINTAH_BONANZA 1023-5G PAD
 NAD 1927 (NADCON CONUS) Universal Transverse Mercator (US Survey Feet)
 UTAH - UTM (feet), NAD27, Zone 12N
 Ground Elevation: 5319.0
 Northing 14522930.71 Easting 2103860.72 Latitude 39.979642°N Longitude 109.345719°W



SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2250.0	0.00	0.00	2250.0	0.0	0.0	0.00	0.00	0.0
3	3250.0	30.00	310.00	3204.9	164.5	-196.0	3.00	310.00	255.9
4	3861.6	30.00	310.00	3734.6	361.0	-430.3	0.00	0.00	561.7
5	5061.6	0.00	0.00	4880.5	558.4	-665.5	2.50	180.00	868.7
6	8701.1	0.00	0.00	8520.0	558.4	-665.5	0.00	0.00	868.7

Azimuths to True North
Magnetic North: 11.27°

Magnetic Field
Strength: 52579.1snT
Dip Angle: 65.94°
Date: 4/15/2009
Model: IGRF200510

ROCKIES - PLANNING

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

UINTAH_BONANZA 1023-5G PAD

P_BONANZA 1023-5G2AS

P_BONANZA 1023-5G2AS

Plan: Plan #1 04-15-09 ZJRA6

Standard Planning Report - Geographic

15 April, 2009

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_BONANZA 1023-5G2AS
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 5319.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 5319.0ft (Original Well Elev)
Site: UINTAH_BONANZA 1023-5G PAD	North Reference: True
Well: P_BONANZA 1023-5G2AS	Survey Calculation Method: Minimum Curvature
Wellbore: P_BONANZA 1023-5G2AS	
Design: Plan #1 04-15-09 ZJRA6	

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

Site UINTAH_BONANZA 1023-5G PAD		
Site Position:	Northing: 14,522,930.71 ft	Latitude: 39.979642°N
From: Lat/Long	Easting: 2,103,860.72 ft	Longitude: 109.345719°W
Position Uncertainty: 0.0 ft	Slot Radius: "	Grid Convergence: 1.06 °

Well P_BONANZA 1023-5G2AS			
Well Position	+N/-S 0.0 ft	Northing: 14,522,930.71 ft	Latitude: 39.979642°N
	+E/-W 0.0 ft	Easting: 2,103,860.72 ft	Longitude: 109.345719°W
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 5,319.0ft

Wellbore P_BONANZA 1023-5G2AS					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/15/2009	11.27	65.94	52,579

Design Plan #1 04-15-09 ZJRA6				
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	310.00

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	0.00	0.00	2,250.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,250.0	30.00	310.00	3,204.9	164.5	-196.0	3.00	3.00	0.00	310.00	
3,861.6	30.00	310.00	3,734.6	361.0	-430.3	0.00	0.00	0.00	0.00	
5,061.6	0.00	0.00	4,880.5	558.4	-665.5	2.50	-2.50	0.00	180.00	
8,701.1	0.00	0.00	8,520.0	558.4	-665.5	0.00	0.00	0.00	0.00	PBHL_BONANZA 1

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_BONANZA 1023-5G2AS
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 5319.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 5319.0ft (Original Well Elev)
Site: UINTAH_BONANZA 1023-5G PAD	North Reference: True
Well: P_BONANZA 1023-5G2AS	Survey Calculation Method: Minimum Curvature
Wellbore: P_BONANZA 1023-5G2AS	
Design: Plan #1 04-15-09 ZJRA6	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	14,522,930.71	2,103,860.72	39.979642°N	109.345719°W	
1,398.0	0.00	0.00	1,398.0	0.0	0.0	14,522,930.71	2,103,860.72	39.979642°N	109.345719°W	
Green River										
2,100.0	0.00	0.00	2,100.0	0.0	0.0	14,522,930.71	2,103,860.72	39.979642°N	109.345719°W	
Surface Casing										
2,250.0	0.00	0.00	2,250.0	0.0	0.0	14,522,930.71	2,103,860.72	39.979642°N	109.345719°W	
3,250.0	30.00	310.00	3,204.9	164.5	-196.0	14,523,091.51	2,103,661.68	39.980094°N	109.346419°W	
3,861.6	30.00	310.00	3,734.6	361.0	-430.3	14,523,283.67	2,103,423.83	39.980633°N	109.347255°W	
4,471.6	14.75	310.00	4,297.0	509.8	-607.6	14,523,429.17	2,103,243.73	39.981042°N	109.347888°W	
Wasatch										
5,061.6	0.00	0.00	4,880.5	558.4	-665.5	14,523,476.62	2,103,184.99	39.981175°N	109.348094°W	
8,079.1	0.00	0.00	7,898.0	558.4	-665.5	14,523,476.62	2,103,184.99	39.981175°N	109.348094°W	
Mesa Verde										
8,701.1	0.00	0.00	8,520.0	558.4	-665.5	14,523,476.62	2,103,184.99	39.981175°N	109.348094°W	

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_BONANZA 102	- plan hits target center	0.00	0.00	8,520.0	558.4	-665.5	14,523,476.62	2,103,184.99	39.981175°N	109.348094°W
	- Point									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
2,100.0	2,100.0	Surface Casing	9-5/8	12-1/4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,079.1	7,898.0	Mesa Verde		0.00		
4,471.6	4,297.0	Wasatch		0.00		
1,398.0	1,398.0	Green River		0.00		

Bonanza 1023-5G2AS

Pad: Bonanza 1023-5G
Surface: 2,054' FNL, 1,424' FEL (SW/4NE/4)
BHL: 1,495' FNL 2,090' FEL (SW/4NE/4)
Sec. 5 T10S R23E

Uintah, Utah
Mineral Lease: UTU 33433

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,398'	
Birds Nest	1,582'	Water
Mahogany	2,083'	Water
Wasatch	4,297'	Gas
Mesaverde	6,370'	Gas
MVU2	7,353'	Gas
MVL1	7,893'	Gas
TVD	8,520'	
TD	8,701'	

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 bottomhole pressure calculated at 8,701' TD, approximately equals 5,150 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,168 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

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'						
						3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,285	36.00	J-55	LTC	1.06	1.89	7.01
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8,701	11.60	I-80	LTC	2.38	1.24	2.28

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 = 11.6 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 3,168 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,150 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
			+ 0.25 pps flocele				
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	1,785'	65/35 Poz + 6% Gel + 10 pps gilsonite	420	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
Option 2	TAIL	500'	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,791'	Premium Lite II + 3% KCl + 0.25 pps	360	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,910'	50/50 Poz/G + 10% salt + 2% gel	1,200	40%	14.30	1.31
			+ 0.1% R-3				

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

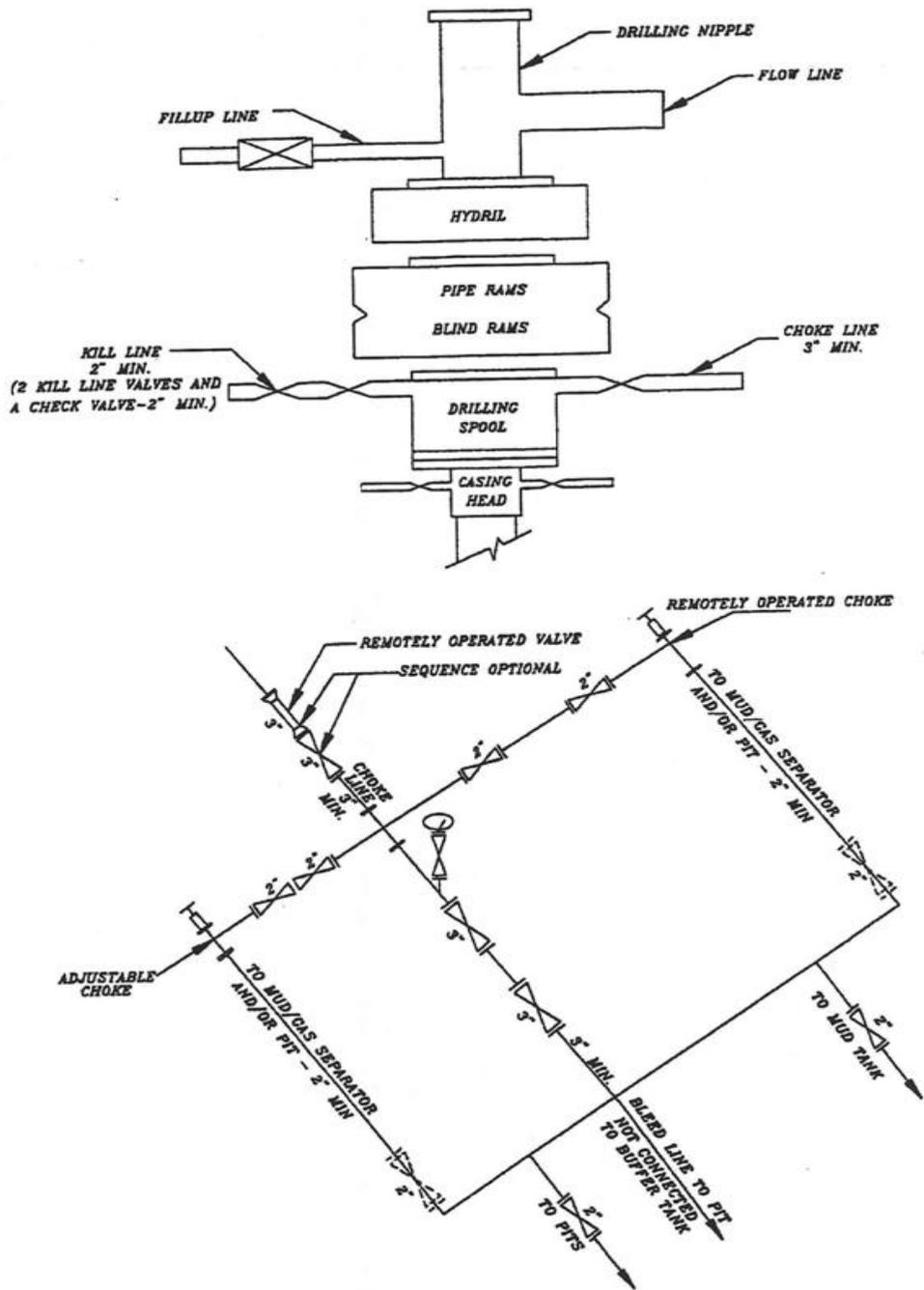
Surveys will be taken at 1,000' minimum intervals.

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

DRILLING ENGINEER: _____ **DATE:** _____
 John Huycke / Emile Goodwin

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

EXHIBIT A Bonanza 1023-5G2AS



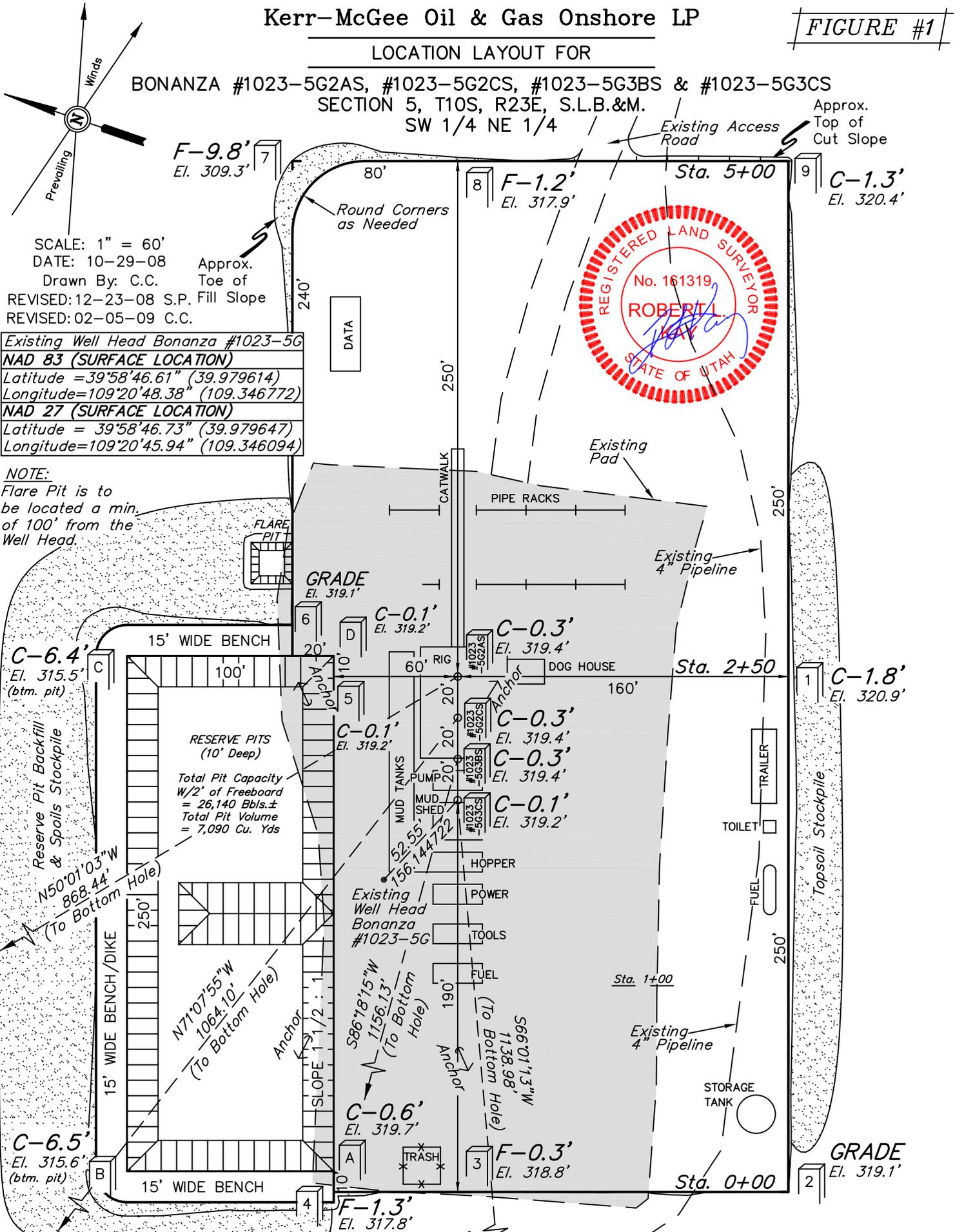
SCHMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR

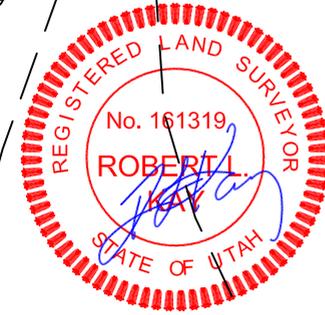
BONANZA #1023-5G2AS, #1023-5G2CS, #1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4



SCALE: 1" = 60'
DATE: 10-29-08
Drawn By: C.C.
REVISD:12-23-08 S.P. Fill Slope
REVISD:02-05-09 C.C.

Existing Well Head Bonanza #1023-5G
NAD 83 (SURFACE LOCATION)
Latitude = 39°58'46.61" (39.979614)
Longitude = 109°20'48.38" (109.346772)
NAD 27 (SURFACE LOCATION)
Latitude = 39°58'46.73" (39.979647)
Longitude = 109°20'45.94" (109.346094)

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



Elev. Ungraded Ground at #1023-5G2AS Location Stake = 5319.4'
Elev. Graded Ground at #1023-5G2AS Location Stake = 5319.1'

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

Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR

BONANZA #1023-5G2AS, #1023-5G2CS, #1023-5G3BS & #1023-5G3CS

SECTION 5, T10S, R23E, S.L.B.&M.

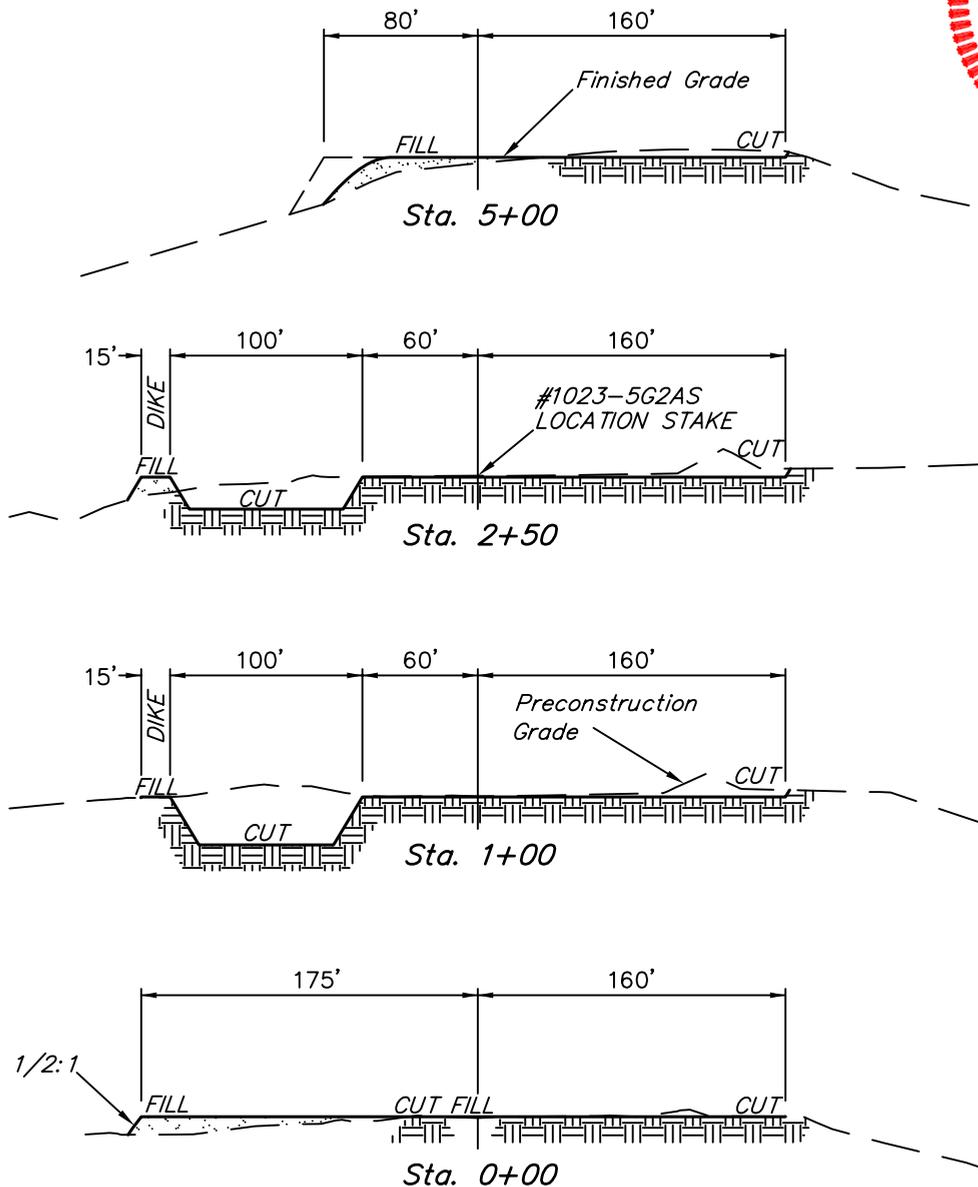
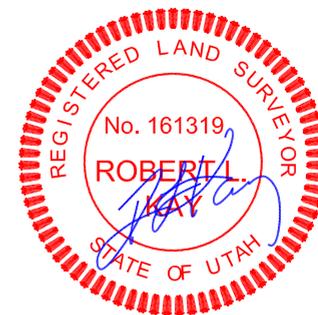
SW 1/4 NE 1/4

X-Section
Scale 1" = 100'
1" = 40'

DATE: 10-29-08

Drawn By: S.P.

REVISED: 12-23-08 S.P.



APPROXIMATE ACREAGES

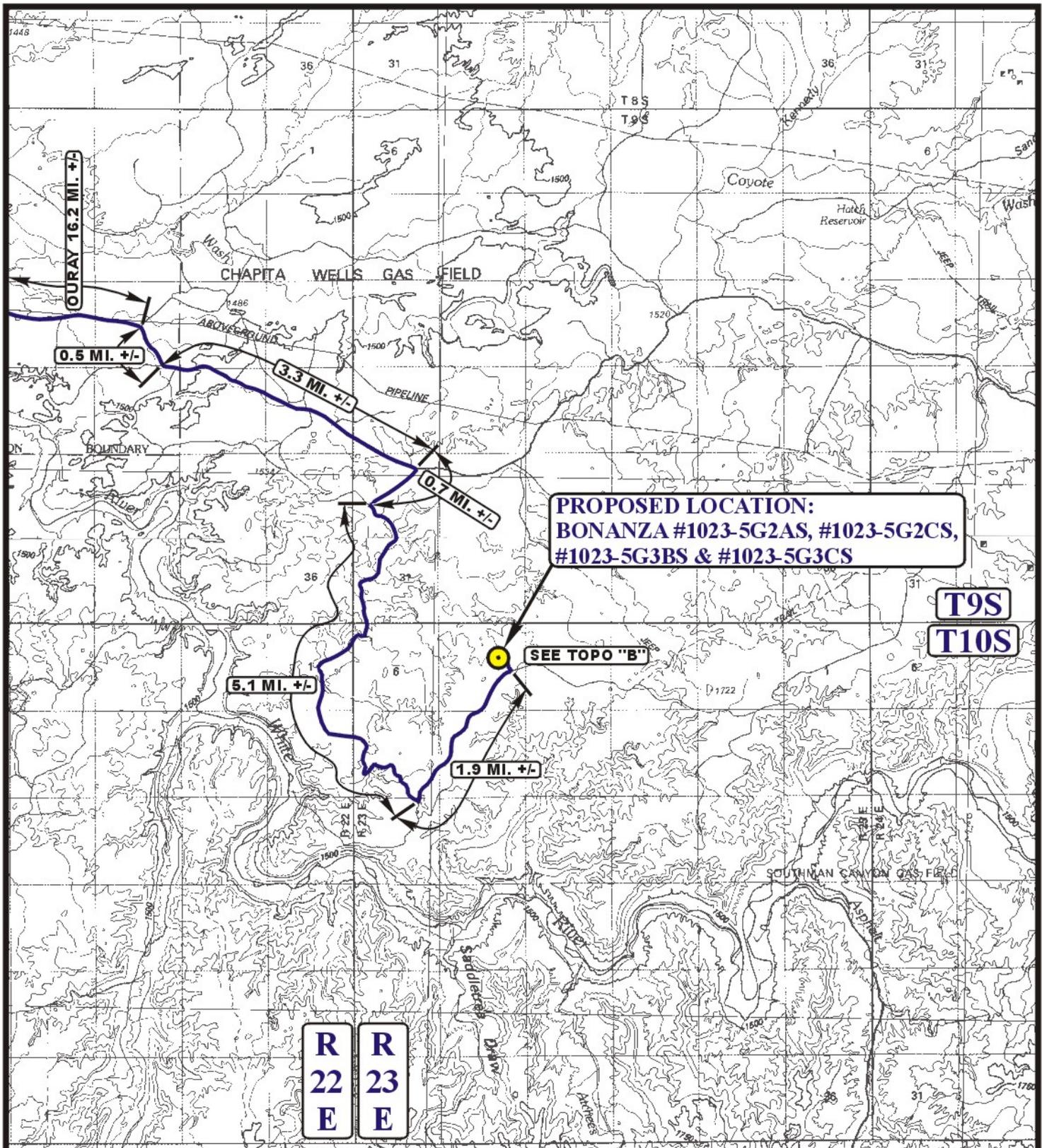
EXISTING WELL SITE DISTURBANCE = ± 1.400 ACRES
 PROPOSED WELL SITE DISTURBANCE = ± 2.762 ACRES
 PIPELINE DISTURBANCE = ± 0.519 ACRES
 TOTAL = ± 4.681 ACRES

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,740 Cu. Yds.
 (New Construction Only)
 Remaining Location = 8,810 Cu. Yds.
TOTAL CUT = 10,550 CU.YDS.
FILL = 2,270 CU.YDS.

EXCESS MATERIAL = 8,280 Cu. Yds.
 Topsoil & Pit Backfill = 5,290 Cu. Yds.
 (1/2 Pit Vol.)
 EXCESS UNBALANCE = 2,990 Cu. Yds.
 (After Interim Rehabilitation)



**PROPOSED LOCATION:
BONANZA #1023-5G2AS, #1023-5G2CS,
#1023-5G3BS & #1023-5G3CS**

SEE TOPO "B"

**T9S
T10S**

**R
22
E** **R
23
E**

LEGEND:

PROPOSED LOCATION

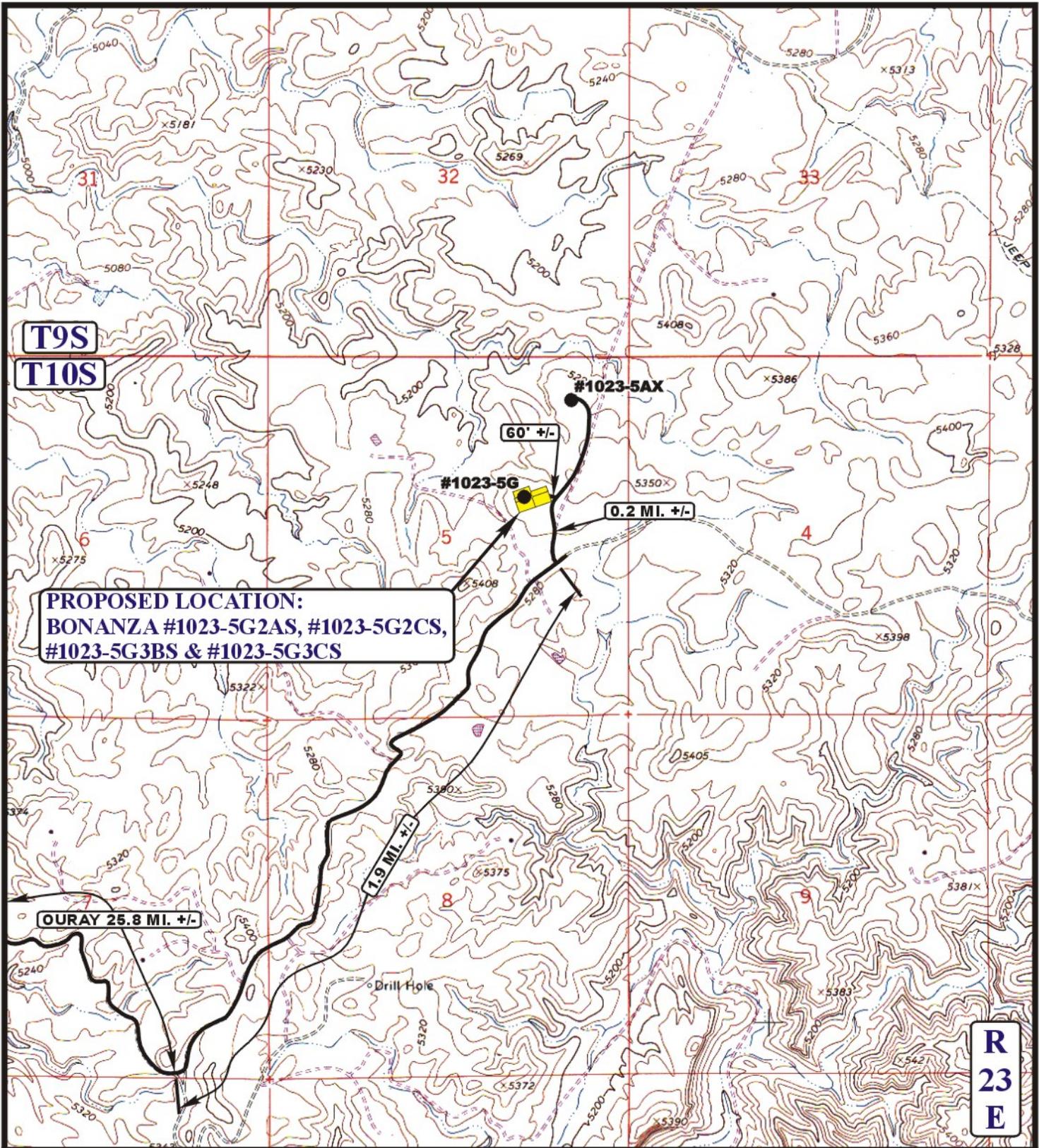


Kerr-McGee Oil & Gas Onshore LP

**BONANZA #1023-5G2AS, #1023-G2CS,
#1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4**

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

TOPOGRAPHIC **10 13 04**
MAP MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: P.M. REV: 12-24-08 J.J. **TOPO**



**PROPOSED LOCATION:
 BONANZA #1023-5G2AS, #1023-5G2CS,
 #1023-5G3BS & #1023-5G3CS**

**R
 23
 E**

LEGEND:

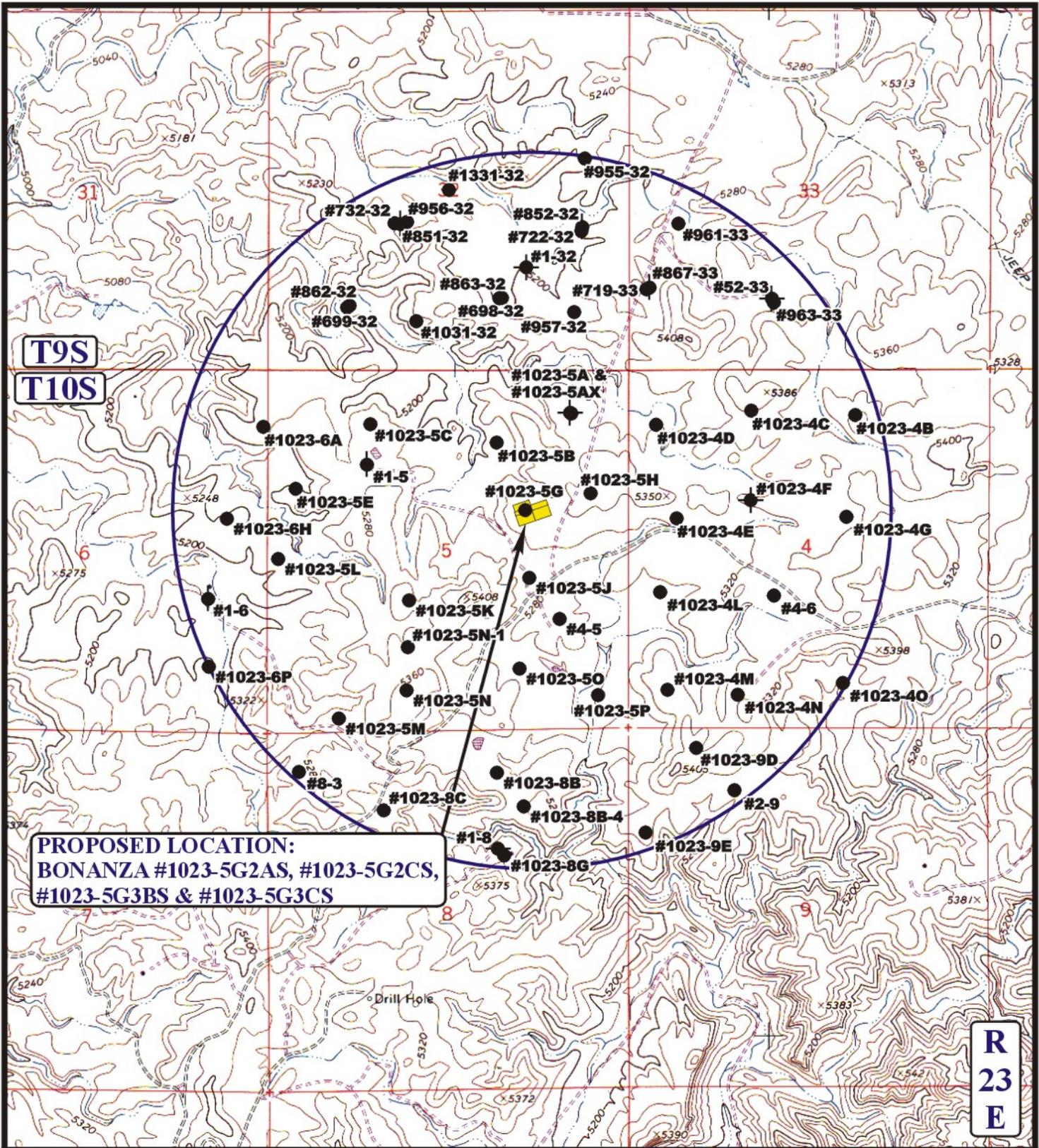
— EXISTING ROAD

**Kerr-McGee Oil & Gas Onshore LP
 BONANZA #1023-5G2AS, #1023-G2CS,
 #1023-5G3BS & #1023-5G3CS
 SECTION 5, T10S, R23E, S.L.B.&M.
 SW 1/4 NE 1/4**

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



TOPOGRAPHIC MAP 10 13 04
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: P.M. REV: 12-24-08 J.J. **B TOPO**



**PROPOSED LOCATION:
 BONANZA #1023-5G2AS, #1023-5G2CS,
 #1023-5G3BS & #1023-5G3CS**

LEGEND:

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

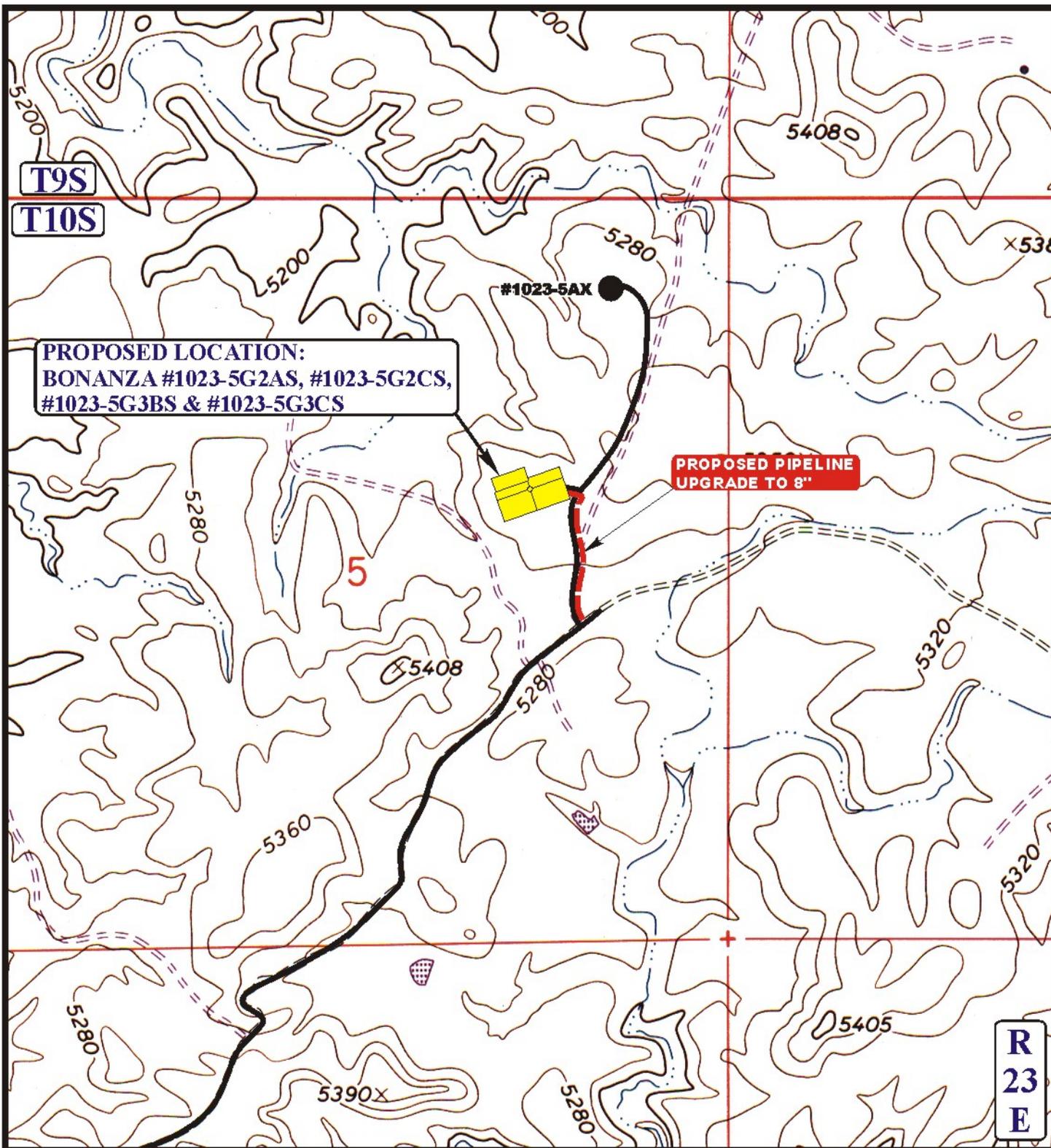
Kerr-McGee Oil & Gas Onshore LP

**BONANZA #1023-5G2AS, #1023-5G2CS,
 #1023-5G3BS & #1023-5G3CS
 SECTION 5, T10S, R23E, S.L.B.&M.
 SW 1/4 NE 1/4**

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

TOPOGRAPHIC MAP 10 13 04
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: P.M. REV: 12-24-08 J.J. **TOPO**





APPROXIMATE TOTAL PIPELINE UPGRADE DISTANCE = 1,029' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE UPGRADE TO 6"



Kerr-McGee Oil & Gas Onshore LP
 BONANZA #1023-5G2AS, #1023-G2CS,
 #1023-5G3BS & #1023-5G3CS
 SECTION 5, T10S, R23E, S.L.B.&M.
 SW 1/4 NE 1/4



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

TOPOGRAPHIC MAP

10 13 04
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: P.M. REV: 02-05-09 C.C.

TOPO

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-5G2AS, #1023-5G2CS, #1023-5G3BS & #1023-5G3CS
LOCATED IN UTAH COUNTY, UTAH
SECTION 5, T10S, R23E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHWESTERLY



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

- Since 1964 -

LOCATION PHOTOS	10	13	04	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: P.M.		REV: 12-24-08 J.J.	

**Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-5G2AS, #1023-5G2CS,
#1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 60' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 58.9 MILES.

Bonanza 1023-5G2AS

Surface: 2,054' FNL, 1,424' FEL (SW/4NE/4)
BHL: 1,495' FNL 2,090' FEL (SW/4NE/4)

Bonanza 1023-5G2CS

Surface: 2,060' FNL, 1,442' FEL (SW/4NE/4)
BHL: 1,715' FNL 2,450' FEL (SW/4NE/4)

Bonanza 1023-5G3BS

Surface: 2,067' FNL, 1,461' FEL (SW/4NE/4)
BHL: 2,140' FNL 2,615' FEL (SW/4NE/4)

Bonanza 1023-5G3CS

Surface: 2,073' FNL, 1,480' FEL (SW/4NE/4)
BHL: 2,535' FNL 2,520' FEL (SW/4NE/4)

Pad: Bonanza 1023-5G
Sec. 5 T10S R23E

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN
SUBMITTED WITH SITE-SPECIFIC INFORMATION***

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted in January, 2009 showing the surface locations in SW/4 NE/4 of Section 5 T10S R23E.

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

An on-site meeting was held on February 3, 2009. Present were:

- Verlyn Pindell, Dave Gordon, Scott Ackerman, Karl Wright – BLM;
- David Kay – Uintah Engineering & Land Surveying;
- Kolby Kay – 609 Consulting, LLC
- Tony Kazeck, Clay Einerson, Raleen White, Ramey Hoopes, Grizz Oleen, Charles Chase and Spencer Biddle – Kerr-McGee.

Directional Drilling:

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

No new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately ±1,029' of existing 4" pipeline needs to be upgraded to 8". Refer to Topo D for the existing pipeline. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. Location and Type of Water Supply:

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

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, Application number 53617. 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.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by 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

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

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

11. Surface/Mineral Ownership:

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

12. Other Information:

See MDP for additional details on Other Information.

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

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.



Danielle Piernot

June 8, 2009

Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 43 PROPOSED WELL LOCATIONS
(T10S, R23E, SECTIONS 5, 6, 7, 8, AND 10)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-331

February 26, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

IPC #09-56

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Onsite Changes "Bonanza #1023-5G2AS, G2CS, G3BS & G3CS and #1023-6P1S, I4S, J3S & I2S"
(Sec. 5 & 6, T 10 S, R 23 E)**

Asphalt Wash
Topographic Quadrangle
Uintah County, Utah

March 25, 2009

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/9/2009

API NO. ASSIGNED: 43047504860000

WELL NAME: Bonanza 1023-5G2AS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWNE 5 100S 230E

Permit Tech Review:

SURFACE: 2054 FNL 1424 FEL

Engineering Review:

BOTTOM: 1495 FNL 2090 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97968

LONGITUDE: -109.34574

UTM SURF EASTINGS: 641256.00

NORTHINGS: 4426603.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 33433

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 179-14
- Effective Date: 6/12/2008
- Siting: 460' fr ext. drilling unit boundary
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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 1023-5G2AS
API Well Number: 43047504860000
Lease Number: UTU 33433
Surface Owner: FEDERAL
Approval Date: 6/17/2009

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, completion into and commingling of production from the Wasatch and Mesaverde formations 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:

Notify the Division within 24 hours of spudding the well.

API Well No: 43047504860000

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

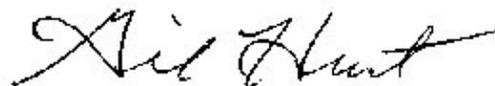
Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:

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

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Gil Hunt
Associate Director, Oil & Gas

RECEIVED

Form 3160-3 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

JUN 09 2009

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

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

Form fields including: 1a. Type of Work: DRILL; 1b. Type of Well: Gas Well; 2. Name of Operator: KERRMCGEE OIL&GAS ONSHORE LP; 3a. Address: DENVER, CO 80202-3779; 3b. Phone No.; 4. Location of Well; 10. Field and Pool: NATURAL BUTTES; 11. Sec., T., R., M., or Blk. and Survey or Area: Sec 5 T10S R23E Mer SLB; 14. Distance in miles and direction from nearest town or post office: APPROXIMATELY 30 MILES SOUTHEAST OF OURAY, UTAH; 15. Distance from proposed location to nearest property or lease line: 1495 FEET; 16. No. of Acres in Lease: 1922.90; 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.: APPROXIMATELY 360 FEET; 19. Proposed Depth: 8701 MD 8520 TVD; 20. BLM/BIA Bond No. on file: WYB000291; 21. Elevations: 5319 GL; 22. Approximate date work will start: 06/30/2009; 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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission) Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156 Date 06/09/2009

Title REGULATORY ANALYST

Approved by (Signature) Name (Printed/Typed) Stephanie J Howard Date 12/4/09

Title Assistant Field Manager Office VERNAL FIELD OFFICE

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

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

Additional Operator Remarks (see next page)

RECEIVED

Electronic Submission #70715 verified by the BLM Well Information System For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal Committed to AFMSS for processing by GAIL JENKINS on 06/10/2009 ()

NOTICE OF APPROVAL

DEC 14 2009

DIV. OF OIL, GAS & MINING

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

095X50505A NOS: 01-30-2009



**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:	SWNE, Sec. 5, T10S, R23E
Well No:	Bonanza 1023-5G2AS	Lease No:	UTU-33433
API No:	43-047-50486	Agreement:	N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

RECEIVED

DEC 14 2009

DIV. OF OIL, GAS & MINING

**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 was processed using a 390 CX tied to NEPA approved 2/5/2007. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 2/5/2012 (5 years from the NEPA approval date), 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.
- The following seed mix will be used for Interim Reclamation
Interim Reclamation seed mix

Ephraim crested wheatgrass	<i>Agropyron cristatum v. Epharim</i>	1 lbs. /acre
bottlebrush squirreltail	<i>Elymus elymoides</i>	1 lbs. /acre
Siberian wheatgrass	<i>Agropyron fragile</i>	1 lbs. /acre
western wheatgrass	<i>Agropyron smithii</i>	1 lbs. /acre
scarlet globemallow	<i>Spaeralcea coccinea</i>	1 lbs. /acre
shadscale	<i>Atriplex confertifolia</i>	2 lbs. /acre
fourwing saltbush	<i>Atriplex canescens</i>	2 lbs. /acre

Seed shall be applied with a rangeland drill, unless topography and /or rockiness precludes the use of equipment. Seed shall be applied between August 15 and ground freezing. All seed rates are in terms of Pure Live Seed. Operator shall notify the Authorized Officer when seeding has commenced, and shall retain all seed tags.

- The existing topsoil pile will be moved and added to the new topsoil pile.
- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticide Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.
- As agreed upon on the onsite the pit will be lined with double felt.

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

SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- A Gamma Ray Log shall be run from TD to surface.

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Variations Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.

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.

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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.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- 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.

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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.

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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
4304750486	BONANZA 1023-5G2AS		SWNE	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>A</i>	99999	<i>17459</i>	1/18/2010			<i>1/28/10</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 1/18/2010 AT 15:00 HRS. <i>BHL = SWNE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750589	NBU 920-14G		SWNE	14	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	1/19/2010			<i>1/28/10</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 1/19/2010 AT 10:00 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750590	NBU 920-14H		SENE	14	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	1/20/2010			<i>1/28/10</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 1/20/2010 AT 11:00 HRS.							

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)

ANDY LYTLE

Name (Please Print)

[Signature]
Signature

REGULATORY ANALYST

1/21/2010

Title

Date

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JAN 21 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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 1023-5G2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504860000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 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: 1/25/2010	<input type="checkbox"/> ACIDIZE	<input checked="" type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: Change surface csg def

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

Kerr-McGee Oil & Gas Onshore, LP (Kerr-McGee) respectfully requests to change the surface casing depth on this well to approximately 300' below the Bird's Nest formation. This is the typical depth of surface casing for other wells in this area. The surface casing change will be FROM: 2,285' TO: 1,900'. Attached, please find the revised drilling program with relevant updated data for this depth of surface casing. Please contact the undersigned if you have questions and/or require additional information. Thank you.

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

Date: January 25, 2010
By: *Daryl Duff*

NAME (PLEASE PRINT) Kathy Schneebeck-Dulnoan	PHONE NUMBER 720 929-6007	TITLE Staff Regulatory Analyst
SIGNATURE N/A	DATE 1/25/2010	



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 1,900	36.00	J-55	LTC	1.06	2.27	8.43
PRODUCTION	4-1/2"	0 to 8,701	11.60	I-80	LTC	2.38	1.24	2.28

- 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 = 11.6 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 3,168 psi
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,150 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	Option 1						
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
	Option 2						
	LEAD	1,400'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	330	35%	12.60	1.81
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,791'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	360	40%	11.00	3.38
	TAIL	4,910'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,200	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
 *Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER: _____ DATE: _____
 John Huycke / Emile Goodwin

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



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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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 1023-5G2AS
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504860000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/27/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

MIRU PROPETRO AIR RIG ON 1/26/2010. DRILLED 12-1/4" SURFACE HOLE TO 1980'. RAN 9-5/8" 36# J-55 SURFACE CASING. PUMP 120 BBLs OF GEL WATER. PUMP 225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD. DROP PLUG ON FLY AND DISPACE W/145 BBLs FRESH WATER, 50 PSI LIFT, NO RETURNS, BUMP PLUG W/400 PSI, FLOATS HELD. TOP OUT #1 W/100 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD. WAIT 2 HRS AND PUMP TOP OUT #2 W/225 SX SAME CMT. NO RETURNS TO SURFACE, WILL READY MIX W/PETE MARTIN APPR 3.5 YARDS OF READY MIX TO SURFACE. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 28, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/28/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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 1023-5G2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504860000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 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: 2/18/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: ECOFRAC/ Pit Refurb

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as a ECOFRAC staging pit to be utilized for other completion operations in the area. There will be 2-400 bbl skim 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 skim tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. Thank you.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
February 16, 2010

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/12/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: Uintah STATE: Utah
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/13/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

FINISHED DRILLING FROM 1980' TO 8670' ON 3/12/2010. RAN 4.5" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLs WATER AHEAD. LEAD CMT W/850 CLASS G PREM LITE CMT @ 12.2 PPG, 2.08 YIELD. TAILED CMT W/570 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.25 YIELD. DROP PLUG AND DISPLACED W/133.8 BBLs WATER AND BUMP PLUG 500 OVER FINAL SETPOINT PSI OF 2100. FLOATS HELD & HAD FULL RETURNS DURING THE JOB. N/D BOP'S AND CLEAN OUT MUD TANKS. RELEASE ENSIGN 139 RIG ON 3/13/2010 AT 13:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 March 16, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/16/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 March 16, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/16/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/17/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 4/17/2010 AT 12:00 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 20, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/19/2010	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU33433

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

2. Name of Operator **KERR-MCGEE OIL&GAS ONSHORE** Contact: **ANDY LYTLE**
 Email: **andrew.lytle@anadarko.com**

3. Address **P.O. BOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)
Ph: 720-929-8100

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **SWNE 2054FNL 1424FEL 39.97961 N Lat, 109.34640 W Lon**
 At top prod interval reported below **SWNE 1500FNL 2088FEL**
 At total depth **SWNE 1498FNL 2084FEL**

6. If Indian, Allottee or Tribe Name _____
 7. Unit or CA Agreement Name and No. _____

8. Lease Name and Well No.
BONANZA 1023-5G2AS

9. API Well No. **43-047-50486**

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area **Sec 5 T10S R23E Mer SLB**

12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **01/18/2010** 15. Date T.D. Reached **03/12/2010** 16. Date Completed **04/17/2010**
 D & A Ready to Prod.

17. Elevations (DF, KB, RT, GL)*
5319 GL

18. Total Depth: MD **8670** TVD **8539** 19. Plug Back T.D.: MD **8619** TVD **8479** 20. Depth Bridge Plug Set: MD **8619** TVD **8479**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
ACOUSTIC CBL-CHI TRIPLE COMBO-RMT-GR

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

BHL reviewed by HSM

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 STEEL	36.7		40		28			
12.000	9.625 J55	36.0		1968		650			
7.875	4.500 I80	11.6		8642		1420			

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	7997							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7030	8502	7030 TO 8502	0.360	255	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
7030 TO 8502	PMP 9,785 BBLs SLICK H2O & 383,803 LBS 30/50 SD.

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/17/2010	04/19/2010	24	→	0.0	1740.0	384.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1500	2250.0	→	0	1740	384		PGW	

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
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

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	1202				
MAHOGANY	1969				
WASATCH	4410	6369			
MESAVERDE	6369	8670	TD		

32. Additional remarks (include plugging procedure):
 ATTACHED IS THE CHRONOLOGICAL WELL HISTORY AND 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 #86658 Verified by the BLM Well Information System.
 For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

Signature  (Electronic Submission) Date 05/18/2010

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.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS RED	Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING	Start Date: 12/30/2009	End Date: 3/13/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve		
UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/26/2010	5:30 - 11:30	6.00	DRLSUR	01	B	P		DRESS COND, INSTALL AIR BOWL,AND BLOOY LINES,RIG UP,DIG DITCHES,R/U PUMPS AND PRIME,AIR COMP,BOOSTER,P/U MM W/ 1.5 BEND SERIAL # 8022, P/U 12 1/4 BIT Q507Z- SERIAL # 7018337 4 TH RUN
	11:30 - 12:30	1.00	DRLSUR	02	B	P		SPUD 12 1/4" HOLE 1-26-2010 @ 11:30. DRLG F/ 44 TO 150'
	12:30 - 14:00	1.50	DRLSUR	06	A	P		L/D 6" P/U MWD TOOLS AND SCRIBE
	14:00 - 0:00	10.00	DRLSUR	02	B	P		DRLG W/ MWD F/ 150' TO 1340' (1190')119' HR, -WOB=20,RPM=60,MMRPM=105,GPM=650,PP=1300 /ON BTM/1300 ON BTM,UP/DWN/ROT/60/60/60
1/27/2010	0:00 - 8:30	8.50	DRLSUR	02	B	P		DRLG W/ MWD F/ 1340' TO 1980' (640') 75' HR,WOB=20,RPM=60,MM RPM=105,PP ON/OFF=1300-1100,UP/DWN/ROT-63/63/63,LOSS ZONE @1550' SLOW PUMP TO 300 GPM TO MAINTAIN PIT VOLUME
	8:30 - 9:30	1.00	DRLSUR	05	C	P		CIRC TO LDDS
	9:30 - 13:30	4.00	DRLSUR	06	D	P		LDDS, MWD
	13:30 - 17:30	4.00	DRLSUR	12	C	P		RUN 45 JOINTS 9 5/8 J-55 36' CSNG SHOE @ 1959.88' BAFFLE IN TOP OF SHOE JOINT @ 1916.88, FILL CSNG @ 900' RELEASE RIG TO THE BONANZA 1023-2F PAD @ 17:30 1-27-2010
	17:30 - 0:00	6.50	DRLSUR	12	E	P		HELD SAETY MTNG W/ CEMENTERS, PRESS TEST LINES TO 2000 PSI, PUMP 120 BBLS H2O GEL WATER,PUMP 225 SX 15.8# 1.15 YLD 5 GAL SK TAIL CMNT DROP PLUG ON FLY DISP W/ 145 BBLSFRESH WATER, 50 PSI LIFT NO RETURNS BUMP PLUG W/ 400 PSI, FLOAT HELD, TOP OUT W/ 100 SX 15.8# 1.15 YLD 5 GAL SK 4 % CALC CMNT WAIT 2 HRS, PUMP 100 SX SAME CMNT, WAIT 2 HRS, PUMP 225 SX SAME CMNT, NO RETURNS TO SURFACE, WILL READY MIX W/ PETE MARTIN APPR 3.5 YARDS OF READY MIX TO SURFACE
3/7/2010	10:00 - 12:00	2.00	DRLPRO	01	C	P		RDRT - SKID RIG - RURT
	12:00 - 13:30	1.50	DRLPRO	09	A	P		SLIP CUT DRILL LINE
	13:30 - 15:00	1.50	DRLPRO	14	A	P		N/U B.O.P'S & FLARE LINES
	15:00 - 18:30	3.50	DRLPRO	15	A	P		TEST B.O.P'S - PIPE - BLIND RAMS - 4-2" VALVES - CHOKE MAINFOLD - 250 - 5000 - ANNULAR 250 - 2500 - CASING 1500 PSI,
	18:30 - 19:00	0.50	DRLPRO	14	B	P		INSTALL WEAR BUSHING
	19:00 - 19:30	0.50	DRLPRO	23		P		RIG INSPECTION & S/M ON PRE SPUD
	19:30 - 21:30	2.00	DRLPRO	06	A	P		P/U DIR TOOLS & T.I.H
	21:30 - 22:30	1.00	DRLPRO	07	B	P		LEVEL RIG
	22:30 - 23:30	1.00	DRLPRO	06	A	P		INSTALL ROT HEAD & CONT TRIP & TAG CEMENT @ 1855
23:30 - 0:00	0.50	DRLPRO	02	F	P		DRILL CEMENT & F.E	
3/8/2010	0:00 - 0:30	0.50	DRLPRO	02	F	P		DRILL SHOE TRACK
	0:30 - 8:30	8.00	DRLPRO	02	D	P		DIR DRILL F/ 1990 TO 2668 - 678' @ 84.75 FPH W/ 8.5 PPG MUD WT - WOB 15/18 - TQ 7/5 - GPM 487
	8:30 - 9:00	0.50	DRLPRO	07	A	P		SER RIG
3/9/2010	9:00 - 0:00	15.00	DRLPRO	02	D	P		DIR DRILL F/ 2668 TO 3953 - 1285' - @ 85.6 FPH W/ 8.7 PPG MUD WT - WOB 15/18 - TQ 7/5 - GPM 487
	0:00 - 14:30	14.50	DRLPRO	02	D	P		DIR DRILL F/ 3953 TO 5209 - 1256' @ 86.6 FPH - WOB 16/20 - TQ 10/6 GPM 487

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G2AS RED		Spud Conductor: 1/18/2010		Spud Date: 1/26/2010				
Project: UTAH-UINTAH			Site: BONANZA 1023-5G PAD			Rig Name No: ENSIGN 139/139, PROPETRO/		
Event: DRILLING			Start Date: 12/30/2009			End Date: 3/13/2010		
Active Datum: RKB @5,333.00ft (above Mean Sea Level)			UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/10/2010	14:30 - 15:00	0.50	DRLPRO	07	A	P		SER RIG
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DIR DRILL F/ 5209 TO - 5988 - 779' @ 86.5 FPH - WOB 18/20 - TQ 11/7 - GPM 487
	0:00 - 15:30	15.50	DRLPRO	02	D	P		DIR DRILL F/ 5988 TO 6924 - 936' @ 60.3 FPH W/ 10.9 MUD WT VIS 38 - RPM 45 - MRPM 111 - WOB 18/20 - TQ 11/8 - GPM 487
3/11/2010	15:30 - 16:00	0.50	DRLPRO	07	A	P		SER RIG
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DIR DRILL F/ 6924 TO 7461 - 537' @ 67.1 FPH W/ 11.5 PPG MUD WT VIS 40 - RPM 45 - MRPM 111 - WOB 18/21 - TQ 13/9 - GPM 487
	0:00 - 14:00	14.00	DRLPRO	02	D	P		DIR DRILL F/ 7461 TO 8190 - 729' @ 52.0 FPH W/ 11.8 PPG MUD WT VIS 42 - RPM 45 - MRPM 108 - WOB 18/22 - TQ 14/10 - GPM 470
3/12/2010	14:00 - 14:30	0.50	DRLPRO	07	A	P		SER RIG
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DIR DRILL F/ 8190 TO 8532 - 342' @ 36.0 FPH W/ 12.0 PPG MUD WT VIS 41 - RPM 45 - MRPM 108 - WOB 18/22 - TQ 14/10 - GPM 470
	0:00 - 5:00	5.00	DRLPRO	02	D	P		DIR DRILL F/ 8532 TO 8670 - 138' @ 27.6 FPH W/ 12.0 PPG MUD WT VIS 43 - RMP 45 - MRPM 108 - WOB 18/22 - TQ 15/11 - GPM 470
3/13/2010	5:00 - 6:00	1.00	DRLPRO	05	A	P		CIRC BTM UP
	6:00 - 8:30	2.50	DRLPRO	06	E	P		SHORT TRIP 12 STANDS - PUMP & ROT OUT 9 STANDS - THEN PULL 3 STAND LOOK GOOD & T.I.H
	8:30 - 9:30	1.00	DRLPRO	05	A	P		CIRC BTM UP
	9:30 - 21:30	12.00	DRLPRO	06	D	P		T.O.H & PUMP OUT 12 STANDS OUT & PUMP DRY JOB & L.D.D.P & BHA & PULL WEAR BUSHING HELD S/M & R/U FRANKS CSG CREW & RUN 4 1/2 PROD STRING
	21:30 - 0:00	2.50	DRLPRO	12	C	P		RUN PROD CASING & SHOE SET @ 8642 - F/C 8621 -RUN 205 JTS PLUS MARKER.
	0:00 - 5:00	5.00	DRLPRO	12	C	P		CIRC BTM UP
	5:00 - 6:30	1.50	DRLPRO	05	D	P		HELD S/M W/ HALLIBURTON & CEMENT W/ 40 BBLS WATER AHEAD & LEAD 850 SKS 12.3 PPG YIELD 2.08 F/ TAIL 570 SKS 14.3 PPG YIELD 1.25 - DROP PLUG DISPLACED W/ 133.8 BBLS WATER & BUMP PLUG 500 OVER FINAL CIRC PSI OF 2100 - FLOATS HELD & FULL RETURNS DURING THE JOB & GOT BACK 5 CEMENT TO PIT.
6:30 - 9:00	2.50	DRLPRO	12	E	P		LAND CSG 90K STRING WT & SET PACK OFF & N/D B.O.P'S & CLEAN OUT MUD TANKS & RELEASED RIG @ 13:00 HRS ON 3/13/2010	
9:00 - 13:00	4.00	DRLPRO	14	A	P			

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS RED		Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-5G PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING		Start Date: 12/30/2009	End Date: 3/13/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve			
UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:00 - 13:00	0.00	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used:</p> <p>SPUD DATE/TIME: 1/26/2010 11:30</p> <p>SURFACE HOLE: Surface From depth:44 Surface To depth: 1,980 Total SURFACE hours: 19.50 Surface Casing size:9 5/8 # of casing joints ran: 45 Casing set MD:1,959.0 # sx of cement:650 Cement blend (ppg:}15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: Describe cement issues: 3 TOPOUTS REDI MIX 3.5 YARDS TO SURFACE Describe hole issues:</p> <p>PRODUCTION: Rig Move/Skid start date/time: 3/7/2010 10:00 Rig Move/Skid finish date/time:3/7/2010 12:00 Total MOVE hours: 2.0 Prod Rig Spud date/time: 3/7/2010 23:30 Rig Release date/time: 3/13/2010 13:00 Total SPUD to RR hours:133.5 Planned depth MD 8,667 Planned depth TVD 8,550 Actual MD: 8,670 Actual TVD: 8,530 Open Vwells \$: \$606,845 AFE \$: \$624,302 Open wells \$/ft:\$69.99</p> <p>PRODUCTION HOLE: Prod. From depth: 1,990 Prod. To depth:8,670 Total PROD hours: 98.5 Log Depth: NO LOGS RUN Production Casing size: 4 1/2 # of casing joints ran: 207 Casing set MD:8,642.0 # sx of cement:1,420 Cement blend (ppg:}LEAD 12.3 10% - TAIL 14.3 - 20% Cement yield (ft3/sk): 2.08 - 1.25 Est. TOC (Lead & Tail) or 2 Stage : 5973 Describe cement issues: 5 BBLs BACK Describe hole issues: NONE</p> <p>DIRECTIONAL INFO: KOP: 2,073 Max angle: 22.95 Departure: 886.38 Max dogleg MD: 4.09</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS RED Spud Conductor: 1/18/2010 Spud Date: 1/26/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-5G PAD Rig Name No: LEED 698/698
 Event: COMPLETION Start Date: 3/29/2010 End Date: 4/15/2010
 Active Datum: RKB @5,333.00ft (above Mean Sea Leve) UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/9/2010	10:00 - 16:00	6.00	COMP	37	B	P		(PERF STG #1) RIH W/ PERF GUNS, PERF THE MESAVERDE @ 8414' - 8418', 8505' - 8511', 4-spf, FOUND THAT WAS WRONG WELL, WELL MISS NUMBER, PERF OUT OF ZONE, RIH W/ PERF GUNS, PERF THE MESAVERDE @8498' - 8502', 8348' - 8354', 4-SPF, USING 3 1/8" SCALLOP GUNS, 23 gm, 0.36 HOLE 120* PHS, 40 HOLES,
4/12/2010	6:30 - 7:00	0.50	COMP	48		P		HSM W/ FRAC WIRELINE CREW, PRESSURE TEST SURFACE LINES TO 8000#,
	7:00 - 16:00	9.00	COMP	36	E	P		(STG #1) BRK DN PERF @ 4180 # @ 6 B/M, INJ-RT = 42 B/M, INJ-P = 3620 #, ISIP = 2526 #, F.G.= 0.73 , PUMP 3 BBLS 15 % HCL AHEAD OF INJ, CALC ALL PERF OPEN, PUMP 963 BBLS SLK WTR & 32102 # OTTAWA SAND, ISIP = 2278 #, F.G = 0.70 , NPI = -248 #, MP = 6493 #, MR = 54.6 B/M, AP = 3975 #, AR = 50.2 B/M, 27102 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = LOST ONE PUMP ,
								(STG #2) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 8308 ', PERF THE MESAVERDE @ 8275' - 8278' 3-SPF, 8196' - 8198' 4-SPF, 8150' - 8153' 4-SPF, 8078' - 8080' 4-SPF, 8046' - 8048' 4-SPF, USING 3 1/8" SCALLOP GUNS 23 gm, 0.36 HOLE, 120* PHS, 43 HOLES, WHP = 2050 #, BRK DN PERF @ 3526 # @ 7 B/M, INJ-RT = 53 B/M, INJ-P = 4700 #, ISIP = 2484 #, F.G.= 0.74 , CALC ALL PERF OPEN, PUMP 2853 BBLS SLK WTR & 114325 # OTTAWA SAND, ISIP = 2378 #, F.G.= 0.72, NPI = -106 #, MP = 6028 #, MR = 54.5 B/M, AP = 416 #, AR = 51.2 B/M, 109325 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = ,
								(STG #3) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 8015 ', PERF THE MESAVERDE @ 7982' - 7985', 7940' - 7944', 7869' - 7871', 7846' - 7848', 4-SPF, USING 3 1/8" SCALLOP GUNS 23 gm, 0.36 HOLE, 120* PHS, 44 HOLES, WHP = 2140 #, BRK DN PERF @ 3320 # @ 6 B/M, INJ-RT = 50 B/M, INJ-P = 4560 #, ISIP = 2514 #, F.G.= 0.75 , CALC ALL PERF OPEN, PUMP 2388 BBLS SLK WTR & 95252 # OTTAWA SAND, ISIP = 2272 #, F.G.= 0.72 , NPI = -242 #, MP = 6093 #, MR = 54.8 B/M, AP = 415 #, AR = 51.7 B/M, 90252 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = GOOD JOB ,
								(PERF STG #4) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7818 ', PERF THE MESAVERDE @ 7784' - 7788' 4-SPF, 7664 - 7668' 3-SPF, 7604' - 7608' 4-SPF, USING 3 1/8" SCALLOP GUNS 23 gm, 0.36 HOLE, 120* PHS, 44 HOLES,

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS RED		Spud Conductor: 1/18/2010		Spud Date: 1/26/2010	
Project: UTAH-UINTAH			Site: BONANZA 1023-5G PAD		Rig Name No: LEED 698/698
Event: COMPLETION			Start Date: 3/29/2010		End Date: 4/15/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Level)			UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/13/2010	9:00 - 15:00	6.00	COMP	36	E	P		(STG #4) WHP = 1455 #, BRK DN PERF @ 4142 # @ 8 B/M, INJ-RT = 52.5 B/M, INJ-P = 4150 #, ISIP = 1901 #, F.G.= 0.68 , CALC ALL PERF OPEN, PUMP 1308 BBLS SLK WTR & 52245 # OTTAWA SAND, ISIP = 1890 #, F.G. = 0.68 , NPI = -11 #, MP = 5150 #, MR = 53.1 B/M, AP = 3660 #, AR = 52.8 B/M, 47245 # 30/50 SAND, 5000 # TLC SAND. COMMENTS = GOOD JOB
								(STG #5) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7580 ' , PERF THE MESAVERDE @ 7546' - 7550' 4-SPF, 7452' - 7454' 3-SPF, 7392' - 7394' 3-SPF, 7314' - 7318' 4-SPF, USING 3 1/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 44 HOLES, WHP = 1478 #, BRK DN PERF @ 2337# @ 4.4 B/M, INJ-RT = 51 B/M, INJ-P = 4720# , ISIP = 2049 #, F.G.= 0.71 , CALC 84% PERF OPEN, PUMP 1007 BBLS SLK WTR & 38683 # OTTAWA SAND, ISIP = 1972 #, F.G. = 0.70 , NPI = -77 #, MP = 5975 #, MR = 53 B/M, AP = 4515 #, AR = 46.5 B/M, 33683 # 30/50 SAND, 5000 # TLC SAND. COMMENTS = GOOD JOB
								(STG #6) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7266 ' , PERF THE MESAVERDE @ 7232' - 7236', 7096' - 7098', 7084' - 7086', 7030' - 7032', 4-SPF, USING 3 1/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 44 HOLES, WHP = 30 #, BRK DN PERF @ 2643 # @ 6.5 B/M, INJ-RT = 51 B/M, INJ-P = 4000 # , ISIP = 1672 #, F.G.= 0.67 , CALC 90% PERF OPEN, PUMP 1266 BBLS SLK WTR & 51196 # OTTAWA SAND, ISIP = 2214 #, F.G. = 0.74 , NPI = 542 #, MP = 6252 #, MR = 51.5 B/M, AP = 3491 #, AR = 51.2 B/M, # 30/50 SAND, # TLC SAND. COMMENTS =
								(KILL PLUG) RIH W/ HALLIBURTON 8K CBP, SET CBP @ 6980', R/D WIRELINE AND FRAC CREW OFF WELL, TOTAL FLUID = 9785 BBLS SLK WTR, TOTAL SAND = 383803 # OTTAWA SAND HSM, ROADING EQUIP TO NEXT WELL RD OFF BONANZA 1023-2H3CS, MIRU, ND FRAC VALVES, NU WEATHERFORS WH SECTION & BOPS, RU FLOOR & TBG EQUIP. TALLY & PU 37/8 SEALED BEARING BIT, POBS, 1.875 X/N & 220 JTS 23/8 L-80 TBG OFF FLOAT. TQG UP @ 6943' 220 JTS IN. L/D 1 JT RU DRL EQUIP 219 JTS IN EOT @ 6916' SWI SDFN. HSM, WORKING W/ POWER SWIVEL, DRILLING PLUGS.
4/14/2010	7:00 - 7:30	0.50	COMP	48		P		
	7:30 - 12:30	5.00	COMP	30	A	P		
	12:30 - 17:00	4.50	COMP	31	I	P		
4/15/2010	7:00 - 7:30	0.50	COMP	48		P		

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G2AS RED		Spud Conductor: 1/18/2010		Spud Date: 1/26/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-5G PAD		Rig Name No: LEED 698/698	
Event: COMPLETION		Start Date: 3/29/2010		End Date: 4/15/2010	
Active Datum: RKB @5,333.00ft (above Mean Sea Leve		UWI: SW/NE/O/10/S/23/E/5/O/0/26/PM/N/2,073.00/E/O/1,480.00/O/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 13:30	6.00	COMP	44	C	P		<p>BROKE CIRC CONVENTIONAL, TEST BOPS TO 3,000# PSI. RIH</p> <p>C/O 37' SAND TAG 1ST PLUG @ 6980' DRL PLG IN 4 MIN, 200# PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 2ND PLUG @ 7266' DRL PLG IN 9 MIN, 200# PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 3RD PLUG @ 7574' DRL PLG IN 3 MIN, 200# PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 4TH PLUG @ 7818' DRL PLG IN 2 MIN, 100# PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 5TH PLUG @ 8015' DRL PLG IN 3 MIN, 200# PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 6TH PLUG @ 8308' DRL PLG IN 3 MIN, 100# PSI INCREASE RIH.</p> <p>C/O TO PBTD @ 8620' CIRC CLEAN, RD SWIVEL. L/D 20 JTS 23/8 L-80, LAND TBG ON 253 JTS 23/8 L-80.</p> <p>ND BOPS, NU WH, PMP OFF BIT, LET WELL SET FOR 30 MIN TO LET BIT FALL, TURN WELL OVER TO FB CREW.</p> <p>RIG DWN.</p> <p>KB = 13'</p> <p>WEATHERFORD 71/16 HANGER = .83'</p> <p>253 JTS 23/8 L-80 = 7981.67'</p> <p>POBS & 1.875 X/N = 2.20' FTP =</p> <p>50 PSI SICP =</p> <p>EOT @ 7997.70'</p> <p>1600 PSI</p> <p>316 JTS HAULED OUT</p> <p>253 LANDED</p> <p>63 TO RETURN</p> <p>TWTR = 9985 BBLS</p> <p>TWR = 1000 BBLS</p> <p>TWLTR = 8985 BBLS</p>
4/16/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1925#, TP 1600#, 20/64" CK, 50 BWPH, TRACE SAND, LIGHT GAS</p> <p>TTL BBLS RECOVERED: 2218</p> <p>BBLS LEFT TO RECOVER: 7767</p>
4/17/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2700#, TP 1725#, 20/64" CK, 35 BWPH, TRACE SAND, - GAS</p> <p>TTL BBLS RECOVERED: 3219</p> <p>BBLS LEFT TO RECOVER: 6766</p>
	12:00 -		PROD	50				<p>WELL TURNED TO SALES @ 1200 HR ON 4/17/10 - 750 MCFD, 1200 BWPD, CP 2275#, FTP 1600#, CK 20/64"</p>
4/18/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2500#, TP 1675#, 20/64" CK, 25 BWPH, TRACE SAND, - GAS</p> <p>TTL BBLS RECOVERED: 3902</p> <p>BBLS LEFT TO RECOVER: 6083</p>
4/19/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2250#, TP 1500#, 20/64" CK, 16 BWPH, TRACE SAND, - GAS</p> <p>TTL BBLS RECOVERED: 4377</p> <p>BBLS LEFT TO RECOVER: 5608</p>



END OF WELL REPORT

Prepared For:

Kerr McGee Oil & Gas Onshore LP
Bonanza 1023-5G2AS
Bonanza 1023-5G Pad
Ensign 139
Uintah County, UT

Prepared By:

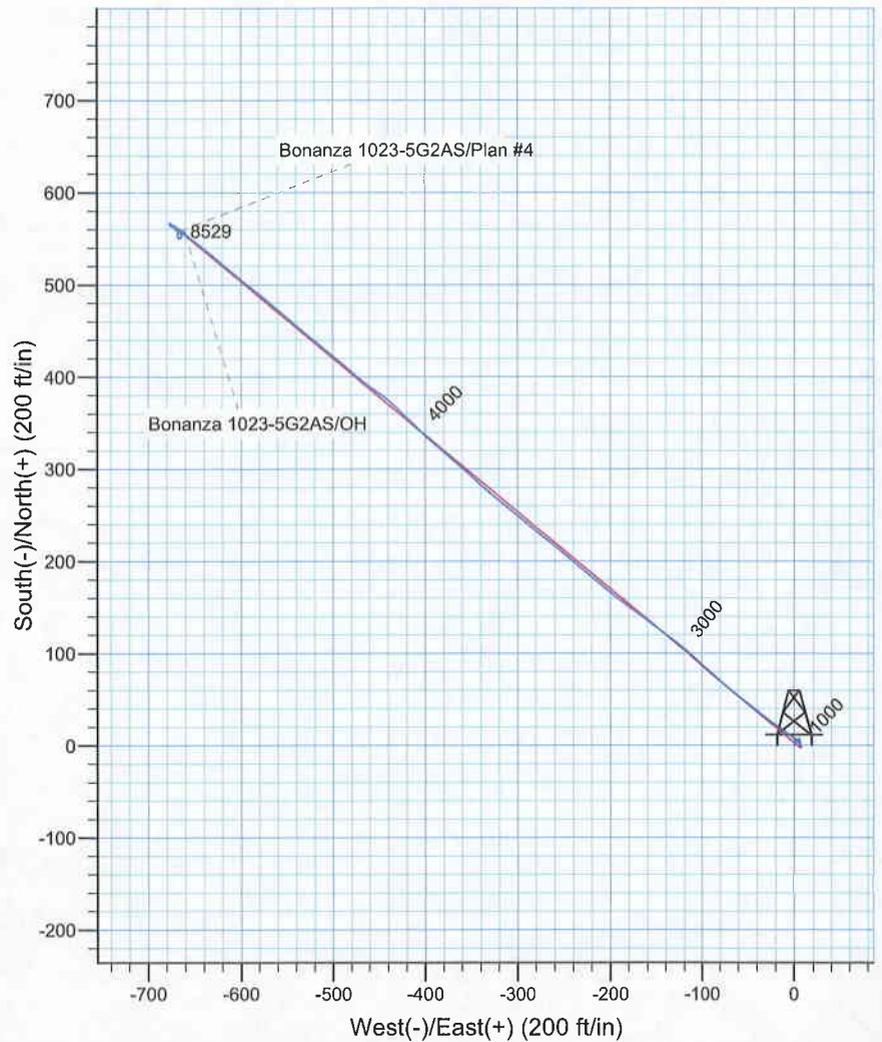
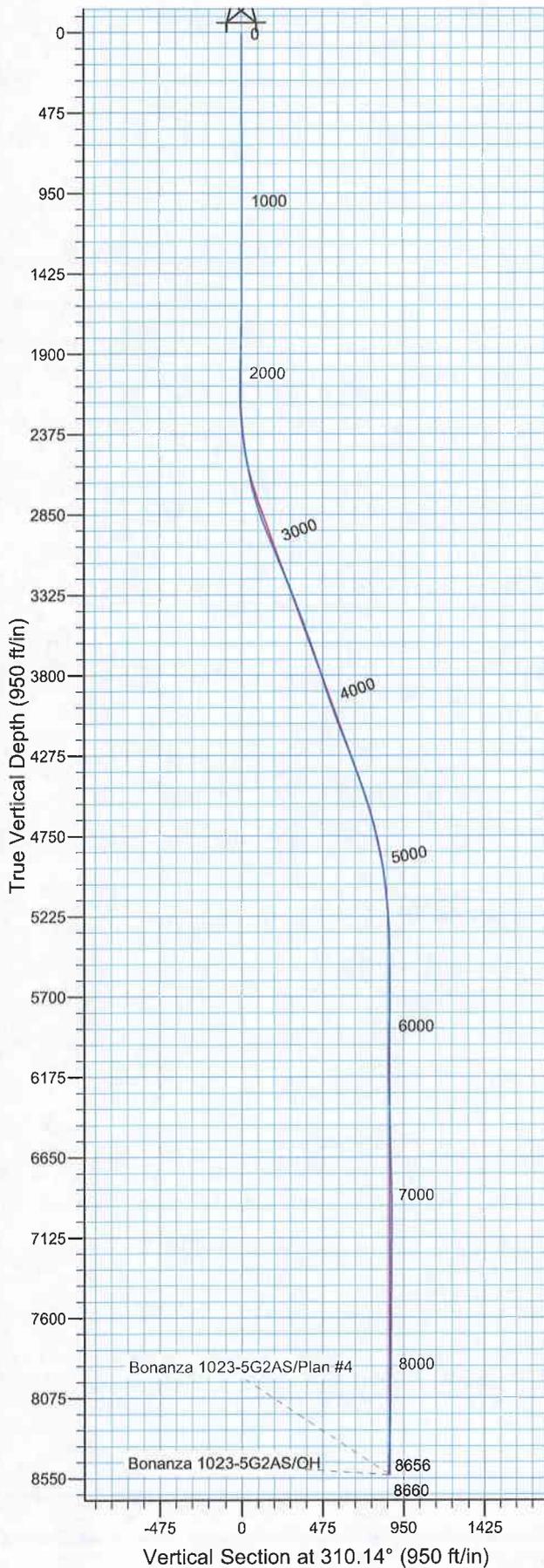
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Rocky Mountain Region

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- 2. Daily Drilling Reports**
- 3. BHA Summary Reports and Slide Sheets**
- 4. Graphical Job History**
- 5. Support Staff**



WELL DETAILS: Bonanza 1023-5G2AS

Ground Level: 5319' & RKB 14' @ 5333.00ft (Ensign 139)
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 14522930.71 2103860.75 39° 58' 46.711 N 109° 20' 44.588 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Bonanza 1023-5G2AS, True North
 Vertical (TVD) Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
 Calculation Method: Minimum Curvature
 Local North: True
 Location: Sec 5 T10S R23E

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)

Design: OH (Bonanza 1023-5G2AS/OH)

Created By: Rex Hall Date: 2010-03-24



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
Bonanza 1023-5G Pad
Bonanza 1023-5G2AS
OH

Design: OH

Standard Survey Report

24 March, 2010

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: Bonanza 1023-5G Pad
 Well: Bonanza 1023-5G2AS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
 TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
 MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Multi-User Db

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 1023-5G Pad, Sec 5 T10S R23E				
Site Position:	Northing:	14,522,930.71 ft	Latitude:	39° 58' 46.711 N	
From:	Lat/Long	Easting:	2,103,860.75 ft	Longitude:	109° 20' 44.588 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.06 °

Well	Bonanza 1023-5G2AS, 2054' FNL & 1424' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,522,930.71 ft	Latitude:	39° 58' 46.711 N
	+E/-W	0.00 ft	Easting:	2,103,860.75 ft	Longitude:	109° 20' 44.588 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,319.00 ft	

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2005-10	12/31/2009	11.18	65.93	52,512	

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	10.00	0.00	0.00	310.14	

Survey Program	Date 3/24/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
159.00	1,929.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,073.00	8,670.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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)	
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
159.00	0.23	355.44	159.00	0.30	-0.02	0.21	0.15	0.15	0.00	
First SDI Surface MWD Survey										
249.00	0.83	7.22	249.00	1.12	0.04	0.69	0.67	0.67	13.09	
339.00	0.84	67.99	338.99	2.02	0.74	0.74	0.94	0.01	67.52	
429.00	0.77	25.62	428.98	2.81	1.61	0.58	0.65	-0.08	-47.08	
519.00	0.33	315.19	518.98	3.54	1.69	0.99	0.81	-0.49	-78.26	
609.00	0.57	352.64	608.97	4.17	1.45	1.58	0.41	0.27	41.61	
699.00	0.61	3.08	698.97	5.09	1.42	2.20	0.13	0.04	11.60	
789.00	0.57	44.55	788.96	5.89	1.76	2.45	0.47	-0.04	46.08	
879.00	0.54	75.26	878.96	6.32	2.48	2.17	0.33	-0.03	34.12	
969.00	0.17	314.41	968.96	6.52	2.80	2.06	0.72	-0.41	-134.28	



Scientific Drilling International

Survey Report



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

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)
1,059.00	0.08	313.07	1,058.96	6.65	2.66	2.26	0.10	-0.10	-1.49
1,149.00	0.74	90.81	1,148.96	6.69	3.19	1.87	0.89	0.73	153.04
1,239.00	0.20	119.14	1,238.95	6.60	3.91	1.27	0.64	-0.60	31.48
1,329.00	0.35	101.82	1,328.95	6.47	4.32	0.87	0.19	0.17	-19.24
1,419.00	0.48	8.36	1,418.95	6.79	4.64	0.83	0.68	0.14	-103.84
1,509.00	0.53	108.87	1,508.95	7.03	5.09	0.64	0.86	0.06	111.68
1,599.00	0.35	166.86	1,598.95	6.62	5.54	0.03	0.51	-0.20	64.43
1,689.00	1.05	154.31	1,688.94	5.61	5.96	-0.94	0.79	0.78	-13.94
1,779.00	0.77	186.54	1,778.93	4.27	6.25	-2.03	0.64	-0.31	35.81
1,869.00	1.09	161.87	1,868.92	2.85	6.45	-3.09	0.56	0.36	-27.41
1,929.00	1.26	171.79	1,928.90	1.66	6.72	-4.07	0.44	0.28	16.53
Last SDI Surface MWD Survey									
2,073.00	0.62	148.28	2,072.88	-0.57	7.36	-5.99	0.51	-0.44	-16.33
First SDI Production MWD Survey									
2,164.00	1.41	341.38	2,163.88	0.07	7.26	-5.50	2.22	0.87	-183.41
2,254.00	4.04	320.02	2,253.77	3.55	4.87	-1.43	3.08	2.92	-23.73
2,345.00	5.54	305.34	2,344.45	8.55	-0.78	6.10	2.12	1.65	-16.13
2,435.00	7.21	305.87	2,433.89	14.37	-8.90	16.07	1.86	1.86	0.59
2,526.00	9.15	304.47	2,523.96	21.81	-19.49	28.96	2.14	2.13	-1.54
2,616.00	11.17	308.60	2,612.55	31.30	-32.20	44.80	2.38	2.24	4.59
2,706.00	14.33	308.16	2,700.32	43.63	-47.78	64.65	3.51	3.51	-0.49
2,797.00	16.80	309.48	2,787.97	58.95	-66.79	89.06	2.74	2.71	1.45
2,887.00	19.96	312.02	2,873.37	77.50	-88.24	117.42	3.62	3.51	2.82
2,978.00	21.19	309.39	2,958.57	98.34	-112.49	149.39	1.69	1.35	-2.89
3,069.00	22.95	308.60	3,042.90	119.85	-139.07	183.58	1.96	1.93	-0.87
3,159.00	22.95	305.87	3,125.78	141.08	-167.01	218.62	1.18	0.00	-3.03
3,250.00	21.54	308.42	3,210.00	161.85	-194.47	253.01	1.88	-1.55	2.80
3,340.00	21.90	309.65	3,293.61	182.83	-220.34	286.31	0.64	0.40	1.37
3,431.00	20.93	310.88	3,378.33	204.30	-245.70	319.53	1.17	-1.07	1.35
3,521.00	20.58	310.09	3,462.49	225.01	-269.95	351.42	0.50	-0.39	-0.88
3,612.00	20.58	307.89	3,547.68	245.13	-294.81	383.40	0.85	0.00	-2.42
3,702.00	18.91	309.12	3,632.39	264.05	-318.61	413.79	1.91	-1.86	1.37
3,793.00	18.38	312.99	3,718.62	283.14	-340.55	442.86	1.48	-0.58	4.25
3,884.00	17.76	312.55	3,805.13	302.30	-361.27	471.06	0.70	-0.68	-0.48
3,974.00	17.76	309.12	3,890.84	320.25	-382.03	498.50	1.16	0.00	-3.81
4,065.00	19.87	313.96	3,976.98	339.74	-403.93	527.81	2.88	2.32	5.32
4,155.00	21.10	315.63	4,061.29	361.94	-426.27	559.20	1.51	1.37	1.86
4,246.00	20.93	305.26	4,146.26	383.04	-451.01	591.71	4.09	-0.19	-11.40
4,337.00	21.02	310.71	4,231.24	403.07	-476.65	624.23	2.15	0.10	5.99
4,427.00	20.14	308.60	4,315.50	423.26	-501.00	655.86	1.28	-0.98	-2.34
4,518.00	19.43	309.83	4,401.13	442.73	-524.86	686.66	0.90	-0.78	1.35
4,608.00	18.55	311.06	4,486.23	461.73	-547.15	715.94	1.07	-0.98	1.37
4,699.00	17.41	310.44	4,572.78	480.06	-568.43	744.03	1.27	-1.25	-0.68
4,789.00	15.12	307.45	4,659.18	495.94	-588.00	769.22	2.71	-2.54	-3.32
4,880.00	12.66	310.53	4,747.51	509.64	-605.00	791.05	2.82	-2.70	3.38
4,970.00	11.87	310.62	4,835.45	522.07	-619.53	810.17	0.88	-0.88	0.10
5,061.00	9.41	308.68	4,924.88	532.82	-632.44	826.97	2.73	-2.70	-2.13
5,152.00	7.74	309.65	5,014.86	541.38	-642.97	840.53	1.84	-1.84	1.07
5,242.00	6.07	305.61	5,104.21	548.02	-651.50	851.34	1.93	-1.86	-4.49
5,333.00	3.87	313.87	5,194.86	552.95	-657.63	859.20	2.54	-2.42	9.08
5,423.00	1.93	311.06	5,284.74	556.05	-660.96	863.75	2.16	-2.16	-3.12
5,514.00	1.58	311.23	5,375.70	557.88	-663.06	866.53	0.38	-0.38	0.19
5,605.00	1.14	303.06	5,466.67	559.20	-664.76	868.68	0.53	-0.48	-8.98
5,695.00	0.70	280.12	5,556.66	559.79	-666.05	870.05	0.63	-0.49	-25.49

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

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)
5,786.00	0.53	226.51	5,647.66	559.59	-666.91	870.58	0.63	-0.19	-58.91
5,876.00	1.58	192.67	5,737.64	558.10	-667.48	870.05	1.31	1.17	-37.60
5,967.00	2.81	187.75	5,828.57	554.66	-668.06	868.28	1.37	1.35	-5.41
6,057.00	1.76	153.65	5,918.50	551.24	-667.74	865.83	1.86	-1.17	-37.89
6,148.00	1.58	78.68	6,009.47	550.23	-665.89	863.76	2.24	-0.20	-82.38
6,239.00	1.58	27.08	6,100.44	551.59	-664.09	863.27	1.51	0.00	-56.70
6,329.00	1.67	339.09	6,190.41	553.92	-663.99	864.69	1.47	0.10	-53.32
6,420.00	1.93	313.78	6,281.37	556.22	-665.57	867.38	0.91	0.29	-27.81
6,510.00	1.58	309.48	6,371.33	558.06	-667.62	870.14	0.42	-0.39	-4.78
6,601.00	0.97	286.98	6,462.30	559.08	-669.33	872.10	0.86	-0.67	-24.73
6,691.00	1.76	321.60	6,552.28	560.39	-670.92	874.15	1.23	0.88	38.47
6,782.00	1.76	321.78	6,643.24	562.58	-672.65	876.89	0.01	0.00	0.20
6,872.00	1.32	325.21	6,733.20	564.52	-674.09	879.25	0.50	-0.49	3.81
6,963.00	0.97	315.72	6,824.19	565.93	-675.23	881.03	0.44	-0.38	-10.43
7,054.00	0.44	278.98	6,915.18	566.54	-676.11	882.09	0.74	-0.58	-40.37
7,144.00	0.26	225.63	7,005.18	566.45	-676.60	882.41	0.39	-0.20	-59.28
7,235.00	0.18	339.36	7,096.18	566.44	-676.80	882.55	0.41	-0.09	124.98
7,325.00	0.53	188.98	7,186.18	566.16	-676.91	882.46	0.77	0.39	-167.09
7,415.00	1.14	169.29	7,276.17	564.87	-676.81	881.55	0.74	0.68	-21.88
7,506.00	0.88	113.57	7,367.15	563.70	-676.00	880.18	1.07	-0.29	-61.23
7,597.00	0.70	97.75	7,458.14	563.35	-674.81	879.04	0.31	-0.20	-17.38
7,687.00	0.62	37.89	7,548.14	563.66	-673.97	878.59	0.74	-0.09	-66.51
7,778.00	0.53	42.46	7,639.14	564.35	-673.38	878.60	0.11	-0.10	5.02
7,868.00	0.44	85.27	7,729.13	564.69	-672.76	878.33	0.40	-0.10	47.57
7,959.00	0.53	129.12	7,820.13	564.45	-672.08	877.67	0.41	0.10	48.19
8,050.00	0.70	129.30	7,911.12	563.84	-671.32	876.69	0.19	0.19	0.20
8,140.00	0.97	131.32	8,001.11	562.98	-670.33	875.38	0.30	0.30	2.24
8,231.00	0.97	126.84	8,092.10	562.01	-669.13	873.84	0.08	0.00	-4.92
8,321.00	1.23	118.75	8,182.08	561.09	-667.68	872.13	0.34	0.29	-8.99
8,412.00	1.32	121.48	8,273.06	560.08	-665.93	870.14	0.12	0.10	3.00
8,502.00	1.49	122.53	8,363.04	558.90	-664.05	867.95	0.19	0.19	1.17
8,593.00	1.76	119.72	8,454.00	557.58	-661.84	865.41	0.31	0.30	-3.09
Last SDI Production MWD Survey									
8,670.00	1.76	119.72	8,530.96	556.40	-659.79	863.08	0.00	0.00	0.00
Projection To TD									

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
B 1023-5G2AS PBHL - actual wellpath misses target center by 5.99ft at 8667.86ft MD (8528.82 TVD, 556.44 N, -659.85 E) - Circle (radius 25.00)	0.00	0.00	8,529.00	558.36	-665.52	14,523,476.62	2,103,184.99	39° 58' 52.230 N	109° 20' 53.138 W

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
159.00	159.00	0.30	-0.02	First SDI Surface MWD Survey
1,929.00	1,928.90	1.66	6.72	Last SDI Surface MWD Survey
2,073.00	2,072.88	-0.57	7.36	First SDI Production MWD Survey
8,593.00	8,454.00	557.58	-661.84	Last SDI Production MWD Survey
8,670.00	8,530.96	556.40	-659.79	Projection To TD

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
Bonanza 1023-5G Pad
Bonanza 1023-5G2AS
OH

Design: OH

Survey Report - Geographic

24 March, 2010





Scientific Drilling International
Survey Report - Geographic



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

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 1023-5G Pad, Sec 5 T10S R23E				
Site Position:		Northing:	14,522,930.71 ft	Latitude:	39° 58' 46.711 N
From:	Lat/Long	Easting:	2,103,860.75 ft	Longitude:	109° 20' 44.588 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.06 °

Well	Bonanza 1023-5G2AS, 2054' FNL & 1424' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,522,930.71 ft	Latitude:	39° 58' 46.711 N
	+E/-W	0.00 ft	Easting:	2,103,860.75 ft	Longitude:	109° 20' 44.588 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,319.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/31/2009	11.18	65.93	52,512

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	10.00	0.00	0.00	310.14	

Survey Program	Date	3/24/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
159.00	1,929.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,073.00	8,670.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
10.00	0.00	0.00	10.00	0.00	0.00	14,522,930.71	2,103,860.75	39° 58' 46.711 N	109° 20' 44.588 W	
159.00	0.23	355.44	159.00	0.30	-0.02	14,522,931.00	2,103,860.72	39° 58' 46.714 N	109° 20' 44.588 W	
First SDI Surface MWD Survey										
249.00	0.83	7.22	249.00	1.12	0.04	14,522,931.83	2,103,860.77	39° 58' 46.722 N	109° 20' 44.587 W	
339.00	0.84	67.99	338.99	2.02	0.74	14,522,932.74	2,103,861.45	39° 58' 46.731 N	109° 20' 44.579 W	
429.00	0.77	25.62	428.98	2.81	1.61	14,522,933.55	2,103,862.31	39° 58' 46.739 N	109° 20' 44.567 W	
519.00	0.33	315.19	518.98	3.54	1.69	14,522,934.28	2,103,862.37	39° 58' 46.746 N	109° 20' 44.566 W	
609.00	0.57	352.64	608.97	4.17	1.45	14,522,934.90	2,103,862.12	39° 58' 46.752 N	109° 20' 44.569 W	
699.00	0.61	3.08	698.97	5.09	1.42	14,522,935.82	2,103,862.07	39° 58' 46.762 N	109° 20' 44.570 W	
789.00	0.57	44.55	788.96	5.89	1.76	14,522,936.63	2,103,862.40	39° 58' 46.769 N	109° 20' 44.565 W	
879.00	0.54	75.26	878.96	6.32	2.48	14,522,937.07	2,103,863.11	39° 58' 46.774 N	109° 20' 44.556 W	
969.00	0.17	314.41	968.96	6.52	2.80	14,522,937.27	2,103,863.42	39° 58' 46.776 N	109° 20' 44.552 W	
1,059.00	0.08	313.07	1,058.96	6.65	2.66	14,522,937.41	2,103,863.28	39° 58' 46.777 N	109° 20' 44.554 W	
1,149.00	0.74	90.81	1,148.96	6.69	3.19	14,522,937.45	2,103,863.81	39° 58' 46.777 N	109° 20' 44.547 W	
1,239.00	0.20	119.14	1,238.95	6.60	3.91	14,522,937.38	2,103,864.53	39° 58' 46.776 N	109° 20' 44.538 W	
1,329.00	0.35	101.82	1,328.95	6.47	4.32	14,522,937.26	2,103,864.94	39° 58' 46.775 N	109° 20' 44.533 W	
1,419.00	0.48	8.36	1,418.95	6.79	4.64	14,522,937.58	2,103,865.26	39° 58' 46.778 N	109° 20' 44.528 W	
1,509.00	0.53	108.87	1,508.95	7.03	5.09	14,522,937.83	2,103,865.70	39° 58' 46.781 N	109° 20' 44.523 W	
1,599.00	0.35	166.86	1,598.95	6.62	5.54	14,522,937.43	2,103,866.17	39° 58' 46.777 N	109° 20' 44.517 W	
1,689.00	1.05	154.31	1,688.94	5.61	5.96	14,522,936.43	2,103,866.61	39° 58' 46.767 N	109° 20' 44.511 W	
1,779.00	0.77	186.54	1,778.93	4.27	6.25	14,522,935.09	2,103,866.92	39° 58' 46.753 N	109° 20' 44.508 W	
1,869.00	1.09	161.87	1,868.92	2.85	6.45	14,522,933.68	2,103,867.14	39° 58' 46.739 N	109° 20' 44.505 W	
1,929.00	1.26	171.79	1,928.90	1.66	6.72	14,522,932.49	2,103,867.44	39° 58' 46.728 N	109° 20' 44.502 W	
Last SDI Surface MWD Survey										
2,073.00	0.62	148.28	2,072.88	-0.57	7.36	14,522,930.27	2,103,868.12	39° 58' 46.706 N	109° 20' 44.493 W	
First SDI Production MWD Survey										
2,164.00	1.41	341.38	2,163.88	0.07	7.26	14,522,930.91	2,103,868.00	39° 58' 46.712 N	109° 20' 44.495 W	
2,254.00	4.04	320.02	2,253.77	3.55	4.87	14,522,934.35	2,103,865.55	39° 58' 46.746 N	109° 20' 44.525 W	
2,345.00	5.54	305.34	2,344.45	8.55	-0.78	14,522,939.24	2,103,859.81	39° 58' 46.796 N	109° 20' 44.598 W	
2,435.00	7.21	305.87	2,433.89	14.37	-8.90	14,522,944.91	2,103,851.59	39° 58' 46.853 N	109° 20' 44.702 W	
2,526.00	9.15	304.47	2,523.96	21.81	-19.49	14,522,952.15	2,103,840.86	39° 58' 46.927 N	109° 20' 44.838 W	
2,616.00	11.17	308.60	2,612.55	31.30	-32.20	14,522,961.41	2,103,827.97	39° 58' 47.021 N	109° 20' 45.002 W	
2,706.00	14.33	308.16	2,700.32	43.63	-47.78	14,522,973.44	2,103,812.17	39° 58' 47.142 N	109° 20' 45.202 W	
2,797.00	16.80	309.48	2,787.97	58.95	-66.79	14,522,988.40	2,103,792.88	39° 58' 47.294 N	109° 20' 45.446 W	
2,887.00	19.96	312.02	2,873.37	77.50	-88.24	14,523,006.56	2,103,771.08	39° 58' 47.477 N	109° 20' 45.722 W	
2,978.00	21.19	309.39	2,958.57	98.34	-112.49	14,523,026.94	2,103,746.45	39° 58' 47.683 N	109° 20' 46.033 W	
3,069.00	22.95	308.60	3,042.90	119.85	-139.07	14,523,047.95	2,103,719.48	39° 58' 47.896 N	109° 20' 46.375 W	
3,159.00	22.95	305.87	3,125.78	141.08	-167.01	14,523,068.66	2,103,691.15	39° 58' 48.106 N	109° 20' 46.734 W	
3,250.00	21.54	308.42	3,210.00	161.85	-194.47	14,523,088.93	2,103,663.31	39° 58' 48.311 N	109° 20' 47.087 W	
3,340.00	21.90	309.65	3,293.61	182.83	-220.34	14,523,109.42	2,103,637.05	39° 58' 48.518 N	109° 20' 47.419 W	
3,431.00	20.93	310.88	3,378.33	204.30	-245.70	14,523,130.41	2,103,611.30	39° 58' 48.730 N	109° 20' 47.745 W	
3,521.00	20.58	310.09	3,462.49	225.01	-269.95	14,523,150.67	2,103,586.67	39° 58' 48.935 N	109° 20' 48.056 W	
3,612.00	20.58	307.89	3,547.68	245.13	-294.81	14,523,170.32	2,103,561.44	39° 58' 49.134 N	109° 20' 48.376 W	
3,702.00	18.91	309.12	3,632.39	264.05	-318.61	14,523,188.80	2,103,537.29	39° 58' 49.321 N	109° 20' 48.681 W	
3,793.00	18.38	312.99	3,718.62	283.14	-340.55	14,523,207.47	2,103,515.01	39° 58' 49.510 N	109° 20' 48.963 W	
3,884.00	17.76	312.55	3,805.13	302.30	-361.27	14,523,226.25	2,103,493.94	39° 58' 49.699 N	109° 20' 49.229 W	
3,974.00	17.76	309.12	3,890.84	320.25	-382.03	14,523,243.81	2,103,472.84	39° 58' 49.877 N	109° 20' 49.496 W	
4,065.00	19.87	313.96	3,976.98	339.74	-403.93	14,523,262.90	2,103,450.58	39° 58' 50.069 N	109° 20' 49.778 W	
4,155.00	21.10	315.63	4,061.29	361.94	-426.27	14,523,284.68	2,103,427.84	39° 58' 50.289 N	109° 20' 50.065 W	
4,246.00	20.93	305.26	4,146.26	383.04	-451.01	14,523,305.31	2,103,402.71	39° 58' 50.497 N	109° 20' 50.382 W	
4,337.00	21.02	310.71	4,231.24	403.07	-476.65	14,523,324.86	2,103,376.70	39° 58' 50.695 N	109° 20' 50.712 W	
4,427.00	20.14	308.60	4,315.50	423.26	-501.00	14,523,344.60	2,103,351.99	39° 58' 50.895 N	109° 20' 51.025 W	
4,518.00	19.43	309.83	4,401.13	442.73	-524.86	14,523,363.63	2,103,327.76	39° 58' 51.087 N	109° 20' 51.331 W	
4,608.00	18.55	311.06	4,486.23	461.73	-547.15	14,523,382.20	2,103,305.12	39° 58' 51.275 N	109° 20' 51.618 W	
4,699.00	17.41	310.44	4,572.78	480.06	-568.43	14,523,400.14	2,103,283.51	39° 58' 51.456 N	109° 20' 51.891 W	



Scientific Drilling International
Survey Report - Geographic



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
4,789.00	15.12	307.45	4,659.18	495.94	-588.00	14,523,415.65	2,103,263.65	39° 58' 51.613 N	109° 20' 52.142 W	
4,880.00	12.66	310.53	4,747.51	509.64	-605.00	14,523,429.03	2,103,246.39	39° 58' 51.748 N	109° 20' 52.361 W	
4,970.00	11.87	310.62	4,835.45	522.07	-619.53	14,523,441.19	2,103,231.64	39° 58' 51.871 N	109° 20' 52.548 W	
5,061.00	9.41	308.68	4,924.88	532.82	-632.44	14,523,451.70	2,103,218.53	39° 58' 51.978 N	109° 20' 52.713 W	
5,152.00	7.74	309.65	5,014.86	541.38	-642.97	14,523,460.06	2,103,207.85	39° 58' 52.062 N	109° 20' 52.849 W	
5,242.00	6.07	305.61	5,104.21	548.02	-651.50	14,523,466.54	2,103,199.19	39° 58' 52.128 N	109° 20' 52.958 W	
5,333.00	3.87	313.87	5,194.86	552.95	-657.63	14,523,471.35	2,103,192.97	39° 58' 52.176 N	109° 20' 53.037 W	
5,423.00	1.93	311.06	5,284.74	556.05	-660.96	14,523,474.39	2,103,189.59	39° 58' 52.207 N	109° 20' 53.080 W	
5,514.00	1.58	311.23	5,375.70	557.88	-663.06	14,523,476.19	2,103,187.45	39° 58' 52.225 N	109° 20' 53.107 W	
5,605.00	1.14	303.06	5,466.67	559.20	-664.76	14,523,477.48	2,103,185.73	39° 58' 52.238 N	109° 20' 53.129 W	
5,695.00	0.70	280.12	5,556.66	559.79	-666.05	14,523,478.04	2,103,184.42	39° 58' 52.244 N	109° 20' 53.145 W	
5,786.00	0.53	226.51	5,647.66	559.59	-666.91	14,523,477.83	2,103,183.58	39° 58' 52.242 N	109° 20' 53.156 W	
5,876.00	1.58	192.67	5,737.64	558.10	-667.48	14,523,476.32	2,103,183.03	39° 58' 52.227 N	109° 20' 53.164 W	
5,967.00	2.81	187.75	5,828.57	554.66	-668.06	14,523,472.88	2,103,182.52	39° 58' 52.193 N	109° 20' 53.171 W	
6,057.00	1.76	153.65	5,918.50	551.24	-667.74	14,523,469.46	2,103,182.90	39° 58' 52.160 N	109° 20' 53.167 W	
6,148.00	1.58	78.68	6,009.47	550.23	-665.89	14,523,468.49	2,103,184.77	39° 58' 52.150 N	109° 20' 53.143 W	
6,239.00	1.58	27.08	6,100.44	551.59	-664.09	14,523,469.88	2,103,186.54	39° 58' 52.163 N	109° 20' 53.120 W	
6,329.00	1.67	339.09	6,190.41	553.92	-663.99	14,523,472.22	2,103,186.59	39° 58' 52.186 N	109° 20' 53.119 W	
6,420.00	1.93	313.78	6,281.37	556.22	-665.57	14,523,474.48	2,103,184.97	39° 58' 52.209 N	109° 20' 53.139 W	
6,510.00	1.58	309.48	6,371.33	558.06	-667.62	14,523,476.28	2,103,182.89	39° 58' 52.222 N	109° 20' 53.165 W	
6,601.00	0.97	286.98	6,462.30	559.08	-669.33	14,523,477.27	2,103,181.16	39° 58' 52.237 N	109° 20' 53.187 W	
6,691.00	1.76	321.60	6,552.28	560.39	-670.92	14,523,478.55	2,103,179.55	39° 58' 52.250 N	109° 20' 53.208 W	
6,782.00	1.76	321.78	6,643.24	562.58	-672.65	14,523,480.71	2,103,177.78	39° 58' 52.272 N	109° 20' 53.230 W	
6,872.00	1.32	325.21	6,733.20	564.52	-674.09	14,523,482.62	2,103,176.30	39° 58' 52.291 N	109° 20' 53.249 W	
6,963.00	0.97	315.72	6,824.19	565.93	-675.23	14,523,484.01	2,103,175.14	39° 58' 52.305 N	109° 20' 53.263 W	
7,054.00	0.44	278.98	6,915.18	566.54	-676.11	14,523,484.60	2,103,174.24	39° 58' 52.311 N	109° 20' 53.275 W	
7,144.00	0.26	225.63	7,005.18	566.45	-676.60	14,523,484.50	2,103,173.76	39° 58' 52.310 N	109° 20' 53.281 W	
7,235.00	0.18	339.36	7,096.18	566.44	-676.80	14,523,484.49	2,103,173.56	39° 58' 52.310 N	109° 20' 53.283 W	
7,325.00	0.53	188.98	7,186.18	566.16	-676.91	14,523,484.21	2,103,173.45	39° 58' 52.307 N	109° 20' 53.285 W	
7,415.00	1.14	169.29	7,276.17	564.87	-676.81	14,523,482.92	2,103,173.57	39° 58' 52.294 N	109° 20' 53.284 W	
7,506.00	0.88	113.57	7,367.15	563.70	-676.00	14,523,481.77	2,103,174.40	39° 58' 52.283 N	109° 20' 53.273 W	
7,597.00	0.70	97.75	7,458.14	563.35	-674.81	14,523,481.43	2,103,175.60	39° 58' 52.279 N	109° 20' 53.258 W	
7,687.00	0.62	37.89	7,548.14	563.66	-673.97	14,523,481.76	2,103,176.44	39° 58' 52.282 N	109° 20' 53.247 W	
7,778.00	0.53	42.46	7,639.14	564.35	-673.38	14,523,482.47	2,103,177.01	39° 58' 52.289 N	109° 20' 53.239 W	
7,868.00	0.44	85.27	7,729.13	564.69	-672.76	14,523,482.82	2,103,177.63	39° 58' 52.293 N	109° 20' 53.231 W	
7,959.00	0.53	129.12	7,820.13	564.45	-672.08	14,523,482.59	2,103,178.31	39° 58' 52.290 N	109° 20' 53.223 W	
8,050.00	0.70	129.30	7,911.12	563.84	-671.32	14,523,481.99	2,103,179.08	39° 58' 52.284 N	109° 20' 53.213 W	
8,140.00	0.97	131.32	8,001.11	562.98	-670.33	14,523,481.16	2,103,180.09	39° 58' 52.276 N	109° 20' 53.200 W	
8,231.00	0.97	126.84	8,092.10	562.01	-669.13	14,523,480.21	2,103,181.30	39° 58' 52.266 N	109° 20' 53.185 W	
8,321.00	1.23	118.75	8,182.08	561.09	-667.68	14,523,479.31	2,103,182.78	39° 58' 52.257 N	109° 20' 53.166 W	
8,412.00	1.32	121.48	8,273.06	560.08	-665.93	14,523,478.33	2,103,184.55	39° 58' 52.247 N	109° 20' 53.144 W	
8,502.00	1.49	122.53	8,363.04	558.90	-664.05	14,523,477.19	2,103,186.44	39° 58' 52.235 N	109° 20' 53.120 W	
8,593.00	1.76	119.72	8,454.00	557.58	-661.84	14,523,475.91	2,103,188.67	39° 58' 52.222 N	109° 20' 53.091 W	
Last SDI Production MWD Survey										
8,670.00	1.76	119.72	8,530.96	556.40	-659.79	14,523,474.77	2,103,190.75	39° 58' 52.211 N	109° 20' 53.065 W	
Projection To TD										



Scientific Drilling International
Survey Report - Geographic



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bonanza 1023-5G Pad
Well: Bonanza 1023-5G2AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bonanza 1023-5G2AS
TVD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
MD Reference: GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
B 1023-5G2AS PBHL	0.00	0.00	8,529.00	558.36	-665.52	14,523,476.62	2,103,184.99	39° 58' 52.230 N	109° 20' 53.138 W
- actual wellpath misses target center by 5.99ft at 8667.86ft MD (8528.82 TVD, 556.44 N, -659.85 E)									
- Circle (radius 25.00)									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
159.00	159.00	0.30	-0.02	First SDI Surface MWD Survey
1,929.00	1,928.90	1.66	6.72	Last SDI Surface MWD Survey
2,073.00	2,072.88	-0.57	7.36	First SDI Production MWD Survey
8,593.00	8,454.00	557.58	-661.84	Last SDI Production MWD Survey
8,670.00	8,530.96	556.40	-659.79	Projection To TD

Checked By: _____ Approved By: _____ Date: _____

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750486	BONANZA 1023-5G2AS		SWNE	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>E</u>	17459	<u>17459</u>	1/18/2010			<u>6/10/10</u>	
Comments: WELL COMPLETED IN MESAVERDE FORMATION EFFECTIVE 4/17/2010. <u>BHL = SWNE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750487	BONANZA 1023-5G2CS		SWNE	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>E</u>	17462	<u>17462</u>	1/18/2010			<u>6/10/10</u>	
Comments: WELL COMPLETED IN MESAVERDE FORMATION EFFECTIVE 4/18/2010. <u>BHL = SWNE</u>							

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)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

6/8/2010

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
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 1023-5G2AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504860000
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: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 05 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: 4/6/2011 <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 type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Wellhead"/>

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

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

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

Date: 04/06/2011

By: *Derek Quist*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/6/2011	

WORKORDER # 88119312

Name: **BONANZA 1023-5G2AS - 1023-5G PAD** 4/5/11
 Surface Location: SWNE Sec. 5, T10S, R23E
 Uintah County, UT

API: 4304750486 LEASE#: UTU-33433

ELEVATIONS: 5319' GL 5332' KB

TOTAL DEPTH: 8670' PBD: 8619'

SURFACE CASING: 9 5/8", 36# J-55 @ 1968'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 8642'
 TOC @ ~100' per CBL

PERFORATIONS: Mesaverde 7030' - 8502'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1202' Green River
 1969' Mahogany
 4410' Wasatch
 6369' Mesaverde

BONANZA 1023-5G2AS - WELLHEAD REPLACEMENT PROCEDURE -

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~6980'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOOH.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6930. Clean out to PBTD (8619').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 1/2" overshoot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6930. Clean out to PBTD (8619').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

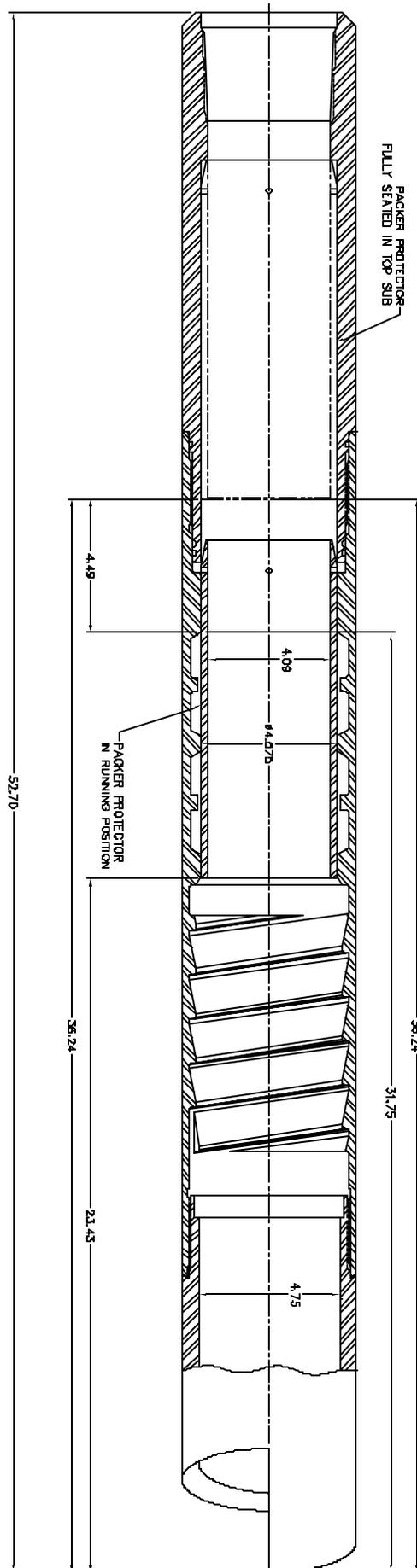


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

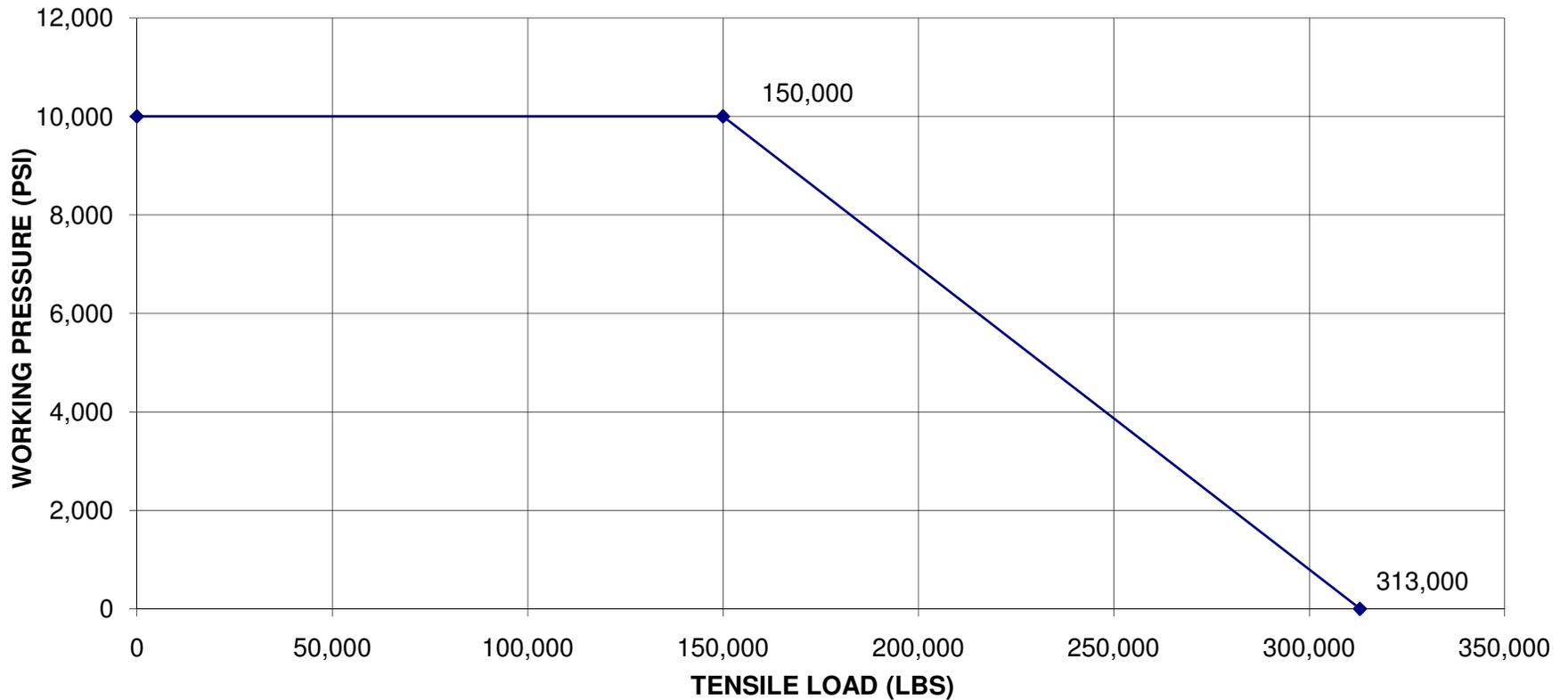
1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.



510L-005-001 4-1/2" LOGAN HP CASING PATCH

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Apr. 06, 2011

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: UTU 33433
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 1023-5G2AS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504860000	
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: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 05 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/7/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Wellhead Repair"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE OPERATOR HAS CONCLUDED WELLHEAD/CASING REPAIRS ON THE SUBJECT WELL LOCATION. PLEASE SEE THE ATTACHED CHRONOLOGICAL HISTORY FOR DETAILS OF THE OPERATIONS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 6/7/2011	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS RED Spud Conductor: 1/18/2010 Spud Date: 1/26/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-5G PAD Rig Name No: MILES 2/2
 Event: WELL WORK EXPENSE Start Date: 5/23/2011 End Date: 5/25/2011
 Active Datum: RKB @5,333.00ft (above Mean Sea Leve) UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/23/2011	7:00 - 7:30	0.50	MAINT	48		P		SETTING CBP
	7:30 - 7:30	0.00	MAINT					MIRU, PULL TBG,STD BACK 126 STDS, LD 1 JT, RU CUTTERS, RUN GAUGE RING, 7000', TOH, PU 10K CBP, TIH SET CBP AT 6970', POOH , PU BAILER, SET 4 SX CEMENT ON PLUG, RD CUTTERS, TIH 11 STDS(22 JTS TBG) 693', SWIFN
5/24/2011	7:00 - 7:30	0.50	MAINT	48		P		
	7:30 - 18:30	11.00	MAINT	33		P		BREAK CIRC AT 693', NDWH CEMENT AT 88', RU WEATHERFORD, CUT CSG AT 7', NU WEATHERFORD PU OVERSHOT, TIH, LATCH ON CSG, RU CUTTERS, STRING SHOT CSG COLLAR, BACK OFF CSG, PU NEW CSG JT AND PUP,STING IN CSG, TORQUE TO 7000#, BALANCED, PULL 100,000# ON CSG,NU B&C TEST TO 1000# 15MIN, 3500# 30 MIN, CUT OFF CSG, DRESS, SET SLIPS WITH 80,000#, NU WH WEATHERFORD TEST, NU BOP'S,TEST TO 3000#, TIH TBG, TAG CEMENT, NU PWR SWIVEL, DRILL CEMENT PLUG, CBP, TIH TO 8010' 254 JTS, TAG SOLID, POOH LAY DWN 6 JTS, SWIFN
5/25/2011	7:00 - 7:30	0.50	MAINT	48		P		DRILLING SCALE

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS RED	Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE	Start Date: 5/23/2011	End Date: 5/25/2011
Active Datum: RKB @5,333.00ft (above Mean Sea Leve) UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 17:00	9.50	MAINT	31		P		RU TECH FOAM, BREAK CIRC, DRILL SCALE FROM 8010' TO 8167.5', TIH TO 8542', DRILL OUT TO 8605', POOH LAY DWN 21 JTS , LAND WITH 253 JTS EOT 7997.58', BROACH TO XNSN, POBS, 1550#, BROACH TBG TO XNSN ND BOP'S, NUWH, RDMO
								JTS RAN 252 JTS 7981.55'
								KB 13.00'
								HANGER .83'
								XNSN 1.875" 2.20'
								EOT 7997.58'
								WTR PUMPED 260 BBLS
								WTR RCVD 250 BBLS
								CALLED CDC 2:20 PM BOBBY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2054 FNL 1424 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 05 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: WASATCH 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: 2/21/2012 <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 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 checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

The operator requests authorization to recomplete the subject well. The operator requests approval to recomplete the Wasatch formation and commingle with the existing Mesaverde formation. Please see the attached procedure. Thank you. ----- Authorization: Board Cause No. 179-14 - DKD -----

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

Date: February 23, 2012
By: Dark Quist

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/21/2012	

Greater Natural Buttes Unit



BONANZA 1023-5G2AS
RE-COMPLETIONS PROCEDURE

DATE:1/12/12
AFE#:
API#:4304750486
USER ID:rachappe (Frac Invoices Only)

COMPLETIONS ENGINEER: RACHAEL HILL, Denver, CO
(720)-929-6599 (Office)
(303)-907-9167 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: Bonanza 1023-5G2AS
Location: NE NW SW NE SEC 5 T10S R23E
LAT: 39.979592 **LONG: -109.346467** **COORDINATE: NAD83 (Surface Location)**
Uintah County, UT
Date: 1/12/12

ELEVATIONS: 5319' GL 5333' KB *Frac Registry TVD: 8531*

TOTAL DEPTH: 8670' **PBTD:** 8632'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 1969'
PRODUCTION CASING: 4 1/2", 11.6#, L-80 BT&C @ 8656'
 Marker Joint **4229-4250'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1202' Green River Top
 1429' Bird's Nest Top
 1996' Mahogany Top
 4410' Wasatch Top
 6475' Mesaverde Top
 *Based on latest geological interpretation

BOTTOMS:

6475' Wasatch Bottom
 8670' Mesaverde Bottom (TD)

T.O.C. @ 450' from Halliburton CBL 3/17/10 (hydraulic isolation @ 1100')

**Based on latest interpretation of CBL

GENERAL:

- A minimum of **7** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburton's Induction-Density-Neutron log dated 3/17/10
- **4** fracturing stages required for coverage.
- Procedure calls for **5** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.

- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- **TIGHT SPACING ON STAGE 2; OVERFLUSH BY 5 BBLs**
- **Max Sand Concentration: Wasatch 2 ppg**
- Tubing Currently Landed @~7998
- Originally completed on 4/12/10

Existing Perforations:

<u>PERFORATIONS</u>						
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>
MESAVERDE		7030	7032	4	8	04/12/2010
MESAVERDE		7084	7086	4	8	04/12/2010
MESAVERDE		7096	7098	4	8	04/12/2010
MESAVERDE		7232	7236	4	16	04/12/2010
MESAVERDE		7314	7318	4	16	04/12/2010
MESAVERDE		7392	7394	3	6	04/12/2010
MESAVERDE		7452	7454	3	6	04/12/2010
MESAVERDE		7546	7550	4	16	04/12/2010
MESAVERDE		7604	7608	4	16	04/12/2010
MESAVERDE		7664	7668	3	12	04/12/2010
MESAVERDE		7784	7788	4	16	04/12/2010
MESAVERDE		7846	7848	4	8	04/12/2010
MESAVERDE		7869	7871	4	8	04/12/2010
MESAVERDE		7940	7944	4	16	04/12/2010
MESAVERDE		7982	7985	4	12	04/12/2010
MESAVERDE		8046	8048	3	6	04/12/2010
MESAVERDE		8078	8080	4	8	04/12/2010
MESAVERDE		8150	8153	4	12	04/12/2010
MESAVERDE		8196	8198	4	8	04/12/2010
MESAVERDE		8275	8278	3	9	04/12/2010
MESAVERDE		8348	8354	4	24	04/12/2010
MESAVERDE		8498	8502	4	16	04/12/2010

Relevant History:

Slickline 1/28/11, 4/6/11, 5/23/11 had light amount of sand and scale
Well head repair 5/24/11

Most recent slick line 7/20/11, see report below

From	To	Operation
7/20/2011 7:00AM		<p>Travel to location rig up went in with jdc stacked out at 6836 beat down latch on plunger came out had a viper plunger went back in stacked out at the same spot beat down latch on spring hit oil jars 7 times broke loose came out had a titanium spring run T.D with bailer stacked out at 8254 beat down came out bailer had some sand scratch and brouch tubing had some wax came out 1.90 brouch was clean plunger was good standard spring was good drop standard spring and plunger chase to seat nipple came out rig down travel to next location.</p> <p>FLUID LEVEL 6600 SEAT NIPPLE DEPTH 6836 SN TYPE X TD (Max Depth) 8254</p> <p>JOB DETAILS SPRING AND/OR PRODUCTION TOOL DETAIL Spring Out Used-Standard Spring In Used-Standard Stuck Spring Yes, stuck but able to latch on Corrosion on Spring No Bailed Acid No Broken Spring No Scale on Spring No Production Tools None Depth of Tool Other Hardware None</p> <p>PLUNGER DETAIL Stuck Plunger Yes, stuck but able to latch on Corrosion on Plunger No Broken Plunger No Scale on Plunger No</p> <p>SOLIDS DETAIL Tight Spots None Severity of Trash Light Solid sample to turn in No Solid Sample Source Tubing Speculated Type of Solid Waxy Speculated Depth of Solid</p> <p>LOST SLICKLINE TOOLS Slickline Tools Lost No Depth of Tool</p>

H2S History:

In 2010 H2S ranged from 3-10ppm, in 2011 H2S dropped to 0 ppm in each sample.

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. Tubing is below the proposed CBP depth, TOO H with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~7998'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6450' (50' below proposed CBP). Otherwise P/U a mill and C/O to 6450' (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6400'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6329	6332	4	12
WASATCH	6347	6350	4	12

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6329' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~6100'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:
- | Zone | From | To | spf | # of shots |
|---------|------|------|-----|------------|
| WASATCH | 5826 | 5828 | 4 | 8 |
| WASATCH | 6001 | 6003 | 4 | 8 |
| WASATCH | 6068 | 6070 | 4 | 8 |
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5826' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs
9. Set 8000 psi CBP at ~5778'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
- | Zone | From | To | spf | # of shots |
|---------|------|------|-----|------------|
| WASATCH | 5494 | 5495 | 3 | 3 |
| WASATCH | 5511 | 5512 | 3 | 3 |
| WASATCH | 5535 | 5536 | 3 | 3 |
| WASATCH | 5566 | 5568 | 3 | 6 |
| WASATCH | 5626 | 5627 | 3 | 3 |
| WASATCH | 5659 | 5660 | 3 | 3 |
| WASATCH | 5747 | 5748 | 3 | 3 |
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5494' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
11. Set 8000 psi CBP at ~5417'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
- | Zone | From | To | spf | # of shots |
|---------|------|------|-----|------------|
| WASATCH | 5280 | 5282 | 4 | 8 |
| WASATCH | 5383 | 5387 | 4 | 16 |
12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~5280' and flush only with recycled water.
13. Set 8000 psi CBP at~5230'.
14. ND Frac Valves, NU and Test BOPs.
15. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
16. Mill 4 plugs and clean out to a depth of ~6390'.
17. Land tubing at 5796', drop ball and pump open sub. Flow back completion load. RDMO
18. MIRU, POOH tbg and mill. TIH with POBS and mill.
19. Mill last plug @ 6400' clean out to PBSD at 8632'. Land tubing at ±7998' pump off bit and bit sub. **This well WILL be commingled at this time.**

20. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

21. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call

Rachael Hill, Denver, CO

(720)-929-6599 (Office)

(303)-907-9167 (Cell)

For field implementation questions, please call

Jeff Samuels, Vernal, UT

(435)-781-7046 (Office)

NOTES:

TIGHT SPACING ON STAGE 2; OVERFLUSH BY 5 BBLs

If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

Total Stages	4	stages
Last Stage Flush	3,447	gals

Service Company Supplied Chemicals - Job Totals

Friction Reducer	58	gals @	0.5	GPT
Surfactant	116	gals @	1.0	GPT
Clay Stabilizer	116	gals @	1.0	GPT
15% Hcl	1000	gals @	250	gal/stg
Iron Control for acid	5	gals @	5.0	GPT of acid
Surfactant for acid	2	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	4	gals @	4.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	348	gals pumped per schedule above
Biocide	58	gals @ 0.5 GPT

Fracturing Schedules
Name: Bonanza 10235GZAS
Slickwater Frac

Coating Size
Recompleter
Pads
ACTS?

4.5
N
Y

Swabbing Days
Production Log
DFT

Enter Number of swabbing days here for recompletes
Enter 1 if running a Production Log
Enter Number of DFTs

0
0
0

Stage	Zone	Perfs		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
		Top. ft.	Bot. ft.																	
1	WASATCH	6329	6332	4	12	Varied	Pre-Pad & Pump-in-test ISIP and 5 min ISIP	0.25	1	Slickwater	4,132	4,132	98	98	17.3%	0.0%	0	0	0	40
	WASATCH	6347	6350	4	12	Varied	Slickwater Pad	0.25	1	Slickwater	3,130	7,262	75	173	15.0%	0.0%	0	6,521	0	31
	WASATCH			4	50	50	Slickwater Ramp	1	2	Slickwater	10,434	17,696	248	421	50.0%	37.3%	6,624	17,477	0	3
	WASATCH			4	50	50	Slickwater Ramp	1	2	Slickwater	7,304	25,000	174	585	35.0%	62.7%	10,956	17,477	0	0
	WASATCH			4	50	50	Slickwater Ramp	1	2	Slickwater	4,132	29,132	98	694	69.4%			17,477	0	0
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	40
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	WASATCH			4	50	50	ISDP and 5 min ISDP	1	2	Slickwater	25,000	29,132	98	694				17,477	0	4

Name Bonanza 1023-5G2AS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	6329	6332	4	12	6323.5	to	6334.5
	WASATCH	6347	6350	4	12	6337	to	6353
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,100	
2	WASATCH	5826	5828	4	8	5814	to	5835
	WASATCH	6001	6003	4	8	5998.5	to	6004.5
	WASATCH	6068	6070	4	8	6060.5	to	6077.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,778		
3	WASATCH	5494	5495	3	3	5491.5	to	5497
	WASATCH	5511	5512	3	3	5510.5	to	5516
	WASATCH	5535	5536	3	3	5533.5	to	5540
	WASATCH	5566	5568	3	6	5563	to	5571.5
	WASATCH	5626	5627	3	3	5623	to	5629.5
	WASATCH	5659	5660	3	3	5657.5	to	5662
	WASATCH	5747	5748	3	3	5746.5	to	5750
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,417		
4	WASATCH	5280	5282	4	8	5279.5	to	5283
	WASATCH	5383	5387	4	16	5382	to	5388.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,230		
Totals				96				

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Rachael Hill: 303-907-9167, 720-929-6599

Production Engineer

Brad Laney: 435/781-7031, 435/828-5469

Jordan Portillo: 435/781-9785, 435/828-6221

Laura M. Wellman: 435/781-9748, 435/322-0118

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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

FORM 6

ENTITY ACTION FORM

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

Well 1

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

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
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)

RECEIVED

MAY 21 2012

Div. of Oil, Gas & Mining

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

5/21/2012

Title

Date

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

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

* not moved in unit

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

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

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

★ not moved into unit

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU33433

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.,
 Other: **RECOMPLETION**

6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE, L.P.

8. Lease Name and Well No.
BONANZA 1023-5G2AS

3. Address **PO BOX 173779
DENVER, CO 80217** 3a. Phone No. (include area code)
720-929-6000

9. API Well No.
4304750486

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **SWNE 2054 FNL 1424 FEL 39.97961 N LAT 109.34640 W LON**
 At top prod. interval reported below **SWNE 1506 FNL 2076 FEL**
 At total depth **SWNE 1498 FNL 2084 FEL**

10. Field and Pool or Exploratory
NATURAL BUTTES
 11. Sec., T., R., M., on Block and Survey or Area
S5,T10SR23E SLB
 12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **01/18/2010** 15. Date T.D. Reached **03/12/2010** 16. Date Completed **04/27/2012**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5319

18. Total Depth: MD **8670** 19. Plug Back T.D.: MD **8619** 20. Depth Bridge Plug Set: MD
 TVD **8530** TVD **8479** TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

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

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	7992							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5280	6350	5280-6350	0.36	96	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5280-6350	PUMP 2,894 BBLs SLICK H2O & 92,421 LBS 30/50 OTTAWA SAND
	4 STAGES

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
4/27/12	8/5/12	24	→	12	672	137			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
0	605	971	→	12	672	137		PRODUCING	

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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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*(See instructions and spaces for additional data on page 2)

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 (Solid, used for fuel, vented, etc.)

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

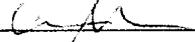
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1202
				MAHOGANY	1969
				WASATCH	4410
				MESAVERDE	6369

32. Additional remarks (include plugging procedure):
 Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 5280-6350'; existing perforations: Mesaverde 7030-8502'. Iso plug was drilled out 8/1/2012 and zones are fully commingled. Test information is production from commingled zones.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

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

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

Name (please print) CARA MAHLER Title REGULATORY ANALYST
 Signature  Date 8/16/2012

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-5G2AS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UJINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 3/29/2012	End Date: 4/26/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UVI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/3/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING UP
	7:30 - 16:00	8.50	COMP	31	I	P		RDMO, BON 1023-5G2CS, MIRU BON 1023-5G2AS, 500 PSI FTP & FCP, CNTRL TBG W/ 30 BBLS, N/D WH, N/U BOPS, UNLAND TBG, MIRU SCAN TECH, POOH W/ 2 3/8" L-80 TBG, TOTAL SCANNED=254 JTS, 52 JTS YLW, 202 JTS RED, L/D X/N NIPPLE
	16:00 - 18:30	2.50	COMP	34	I	P		MIRU CASED HOLE SOLUTIONS, P/U & RIH W/ HAL 10K CBP, SET @ 6400' POOH, RDMO WL, N/D BOPS, N/U FV.
4/4/2012	7:00 - 8:30	1.50	COMP	33	C	P		MIRU, B & C QUICK TEST, PSI TEST FV, CBP, CSG TO 1000# -15MIN =19# LOSS, 3500#-15 MIN = 12# LOSS, 6200# - 30 MIN = 69# LOSS. RDMO B & C QUICKTEST, SW.
4/13/2012	10:00 - 10:15	0.25	COMP	48		P		HSM & JSA W/CASED HOLE SOLUTIONS.
	10:15 - 11:30	1.25	COMP	37	B	P		WHP 0 PSI. (ISOLATION CBP @ 6400') MIRU WIRELINE, PU 3 3/8" GNS, 23 gm, 0.36 HOLE, 90 DEG PHSG, 24 HOLES. RIH & PERF WASATCH AS PER DESIGN. POOH & L/D TOOLS. SW - PREP TO FRAC 4/16/12.
4/16/2012	6:45 - 7:00	0.25	COMP	48		P		HSM & JSA W/SUPERIOR WELL SERVICE & CASED HOLE WIRELINE.
	7:54 - 8:17	0.38	COMP	36	E	P		MIRU SUPERIOR WELL SERVICE. P/T PUMP & LINES TO 7400 PSI.
	8:17 - 9:17	1.00	COMP	37	B	P		FRAC STG 1) WHP 1979 PSI. BRK DWN PERF 3.8 BPM @ 2781 PSI. ISIP 2413 PSI. F.G. 0.82. EST INJ RATE 51.9 BPM @ 4892 PSI. 24/24 PERFS OPEN - 100%. MP 5322 PSI, MR 54.3 BPM, AP 4999 PSI, AR 47.1 BPM. ISIP 3378 PSI, F.G. 0.97, NPI 965 PSI. PMP'D 710 BBLS SLK WTR, 17,647 LBS 30/50 SND. X-OVER FOR WL.
	10:04 - 10:20	0.27	COMP	36	E	P		PERF STG 2) P/U 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 90 DEG PHSG. PERF WASATCH AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
4/16/2012	10:24 - 11:34	1.17	COMP	37	B	P		FRAC STG 2) WHP 879 PSI. BRK DWN PERF 3.9 BPM @ 2367 PSI. ISIP 1400 PSI. F.G. 0.67. EST INJ RATE 50.5 BPM @ 3018 PSI. 24/24 PERFS OPEN - 100%. MP 4537 PSI, MR 51.1 BPM, AP 3527 PSI, AR 50.3 BPM. ISIP 1958 PSI, F.G. 0.77, NPI 558 PSI. PMP'D 577 BBLS SLK WTR, 17,734 LBS 30/50 TLC SND. X-OVER FOR WL.
								PERF STG 3) P/U 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. PERF WASATCH AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-5G2AS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 3/29/2012	End Date: 4/26/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/010/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:34 - 11:57	0.38	COMP	36	E	P		FRAC STG 3) WHP 469 PSI. BRK DWN PERF 3.8 BPM @ 2561 PSI. ISIP 1303 PSI. F.G. 0.67. EST INJ RATE 50.2 BPM @ 4710 PSI. 18/24 PERFS OPEN - 75%. MP 5103 PSI, MR 50.4 BPM, AP 4668 PSI, AR 49.9 BPM. ISIP 1706 PSI, F.G. 0.74, NPI 403 PSI. PMP'D 921 BBLS SLK WTR, 31,454 LBS 30/50 TLC SND. X-OVER FOR WL.
	12:00 - 12:45	0.75	COMP	37	B	P		PERF STG 4) P/U 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 90 DEG PHSG. PERF WASATCH AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	13:29 - 13:46	0.28	COMP	36	E	P		FRAC STG 4) WHP 848 PSI. BRK DWN PERF 3.9 BPM @ 2832 PSI. ISIP 1705 PSI. F.G. 0.76. EST INJ RATE 51.2 BPM @ 3373 PSI. 24/24 PERFS OPEN - 100%. MP 5457 PSI, MR 51.7 BPM, AP 3171 PSI, AR 50.4 BPM. ISIP 1825 PSI, F.G. 0.78, NPI 120 PSI. PMP'D 686 BBLS SLK WTR, 25586 LBS 30/50 TLC SND. X-OVER FOR WL.
	13:50 - 14:25	0.58	COMP	34	I	P		KILL PLUG) P/U HALCO 8K CBP. RIH SET CBP @ 5230'. POOH W/TOOLS. SW - SDFN.
								TOTAL WATER 2,894 BBLS TOTAL SAND 92,421 LBS SCALE INHIBITOR 83 GAL BIOCIDE 37 GAL
4/26/2012	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, P/U TBG. 0 PSI ON WELL

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G2AS GREEN		Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-5G PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD		Start Date: 3/29/2012	End Date: 4/26/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)		UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 17:00	9.50	DRLOUT	31	I	P		<p>N/D WH, N/U BOPS, P/U 3 7/8" SBB, POPBS, 165 JTS 2 3/8" L-8- TBG, TAG @ 5225', R/U PWR SWVL, BRK CIRC CONV, W/ RIG PUMP C/O 5' SAND, D/O CBP @ 5230' 4 MIN, 0 KICK, FCP = 0#, RIH TAG @ 5387' ,C/O 30' SAND, D/O CBP @ 5417' 5 MIN, 100 KICK, FCP = 50#, RIH TAG @ 5748' ,C/O 30' SAND, D/O CBP @ 5778' 5 MIN, 0 KICK, FCP = 0, RIH TAG @ 6070' ,C/O 30' SAND, D/O CBP @ 6100' 5 MIN, 200# KICK, FCP =100#, RIH TAG @ 6355' ,C/O 35' SAND to 6390' CIRC CLEAN, L/D 19 JTS, LAND TBG @ 5782.74 KB = 14' HANGER =83' 2 3/8" L-80 TBG (182 JTS)5765.81' PUMP OPEN BIT SUB W/ 1.875 XN =2.1'</p> <p>N/D BOPS, N/U WH, PUMP OPEN BIT W/ FOAM N2 UNIT @ 1600 PSI BLOW WELL AROUND, FLOW TBG TO FB TANK, PUT TO SALES IN AM. FTP =100# SICP =700# T/O TO FB CREW & PROD</p> <p>OLTR = 2894 BBLS RECOVERED = 500 BBLS LTR = 2394 BBLS</p>

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G2AS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/26/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: SWABBCO 6/6
Event: WELL WORK EXPENSE	Start Date: 8/1/2012	End Date: 8/2/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/1/2012	7:00 - 7:15	0.25	WO/REP	48		P		JSA= FOAM UNIT
	7:15 - 17:00	9.75	WO/REP	30		P		FWP= 90 PSI TUB & CSG, CONTROL TUB W/ TMAC ND W/H NU BOPS RU FLOOR & TUBING EQUIP CONTROL CSG W/ 20 BBLs TMAC UNLAND TUBING LD HNGR POOH W/ TUBING LD BHA PU 3-7/8" MILL RIH TAG CBP @ 6400' RU DRILLING EQUIP EST CIRC W/ FOAM UNIT DRILL THRU HALLI 8K CBP W/ 400# INCREASE CONTINUE TO RIH TAG SOLID @ 8577' POOH LD 19 JNTS RD PWR SWWL POOH W/ 60 JNTS SIW SDFN
8/2/2012	7:00 - 7:15	0.25	WO/REP	48		P		JSA= PRESSURE CONTROL
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 1200 PSI OPEN CSG TO FBT CONTROL TUBING W/ TMAC CONTINUE TO POOH W/ MILL LD BHA PU NOTCHED 1.87XN RIH W/ 126 JNTS 3980' RIH W/ BROACH CONTINUE TO RIH LAND TUBING ON HNGR W/ 252 JNTS EOT @ 7993.16' RIH W/ BROACH TO 4200' RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD RD RIG MOVE TO NBU 922-36C

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5G2AS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-5G2AS	Wellbore Name	BONANZA 1023-5G2AS
Report No.	1	Report Date	3/29/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-5G PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	3/29/2012	End Date	4/26/2012
Spud Date	1/26/2010	Active Datum	RKB @5,333.00usft (above Mean Sea Level)
UWI	SW/NE/010/S/23/E/5/0/0/26/PM/N2,073.00/E/0/1,480.00/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,280.0 (usft)-6,350.0 (usft)	Start Date/Time	4/3/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	14	End Date/Time	4/3/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	96	Net Perforation Interval	26.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.69 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/3/2012 12:00AM	WASATCH/			5,280.0	5,282.0	4.00		0.360	EXP/	3.375	90.00			23.00	PRODUCTIO N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/3/2012 12:00AM	WASATCH/			5,383.0	5,387.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,494.0	5,495.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,511.0	5,512.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,535.0	5,536.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,566.0	5,568.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,626.0	5,627.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,659.0	5,660.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,747.0	5,748.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			5,826.0	5,828.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			6,001.0	6,003.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			6,068.0	6,070.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			6,329.0	6,332.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/3/2012 12:00AM	WASATCH/			6,347.0	6,350.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots