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 1023-8L3DS

2. TYPE OF WORK
DRILL NEW WELL ■ REENTER P&A WELL ○ DEEPEN WELL ○

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
307-752-1169

8. ADDRESS OF OPERATOR
P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL
Laura.Gianakos@anadarko.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU 37355

11. MINERAL OWNERSHIP
FEDERAL ■ INDIAN ○ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ■ INDIAN ○ STATE ○ FEE ○

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 ■ (Submit Commingling Application) NO ○

19. SLANT
VERTICAL ○ DIRECTIONAL ■ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2216 FSL 945 FWL	NWSW	8	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1644 FSL 570 FWL	NWSW	8	10.0 S	23.0 E	S
At Total Depth	1644 FSL 570 FWL	NWSW	8	10.0 S	23.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
570

23. NUMBER OF ACRES IN DRILLING UNIT
1920

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
651

26. PROPOSED DEPTH
MD: 8371 TVD: 8282

27. ELEVATION - GROUND LEVEL
5300

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

- ☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**
- ☑ **COMPLETE DRILLING PLAN**
- ☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**
- ☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
- ☑ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**
- ☑ **TOPOGRAPHICAL MAP**

NAME Danielle Piernot	**TITLE** Regulatory Analyst	**PHONE** 720 929-6156
SIGNATURE	**DATE** 07/02/2010	**EMAIL** gnbregulatory@anadarko.com

API NUMBER ASSIGNED
43047511530000

APPROVAL

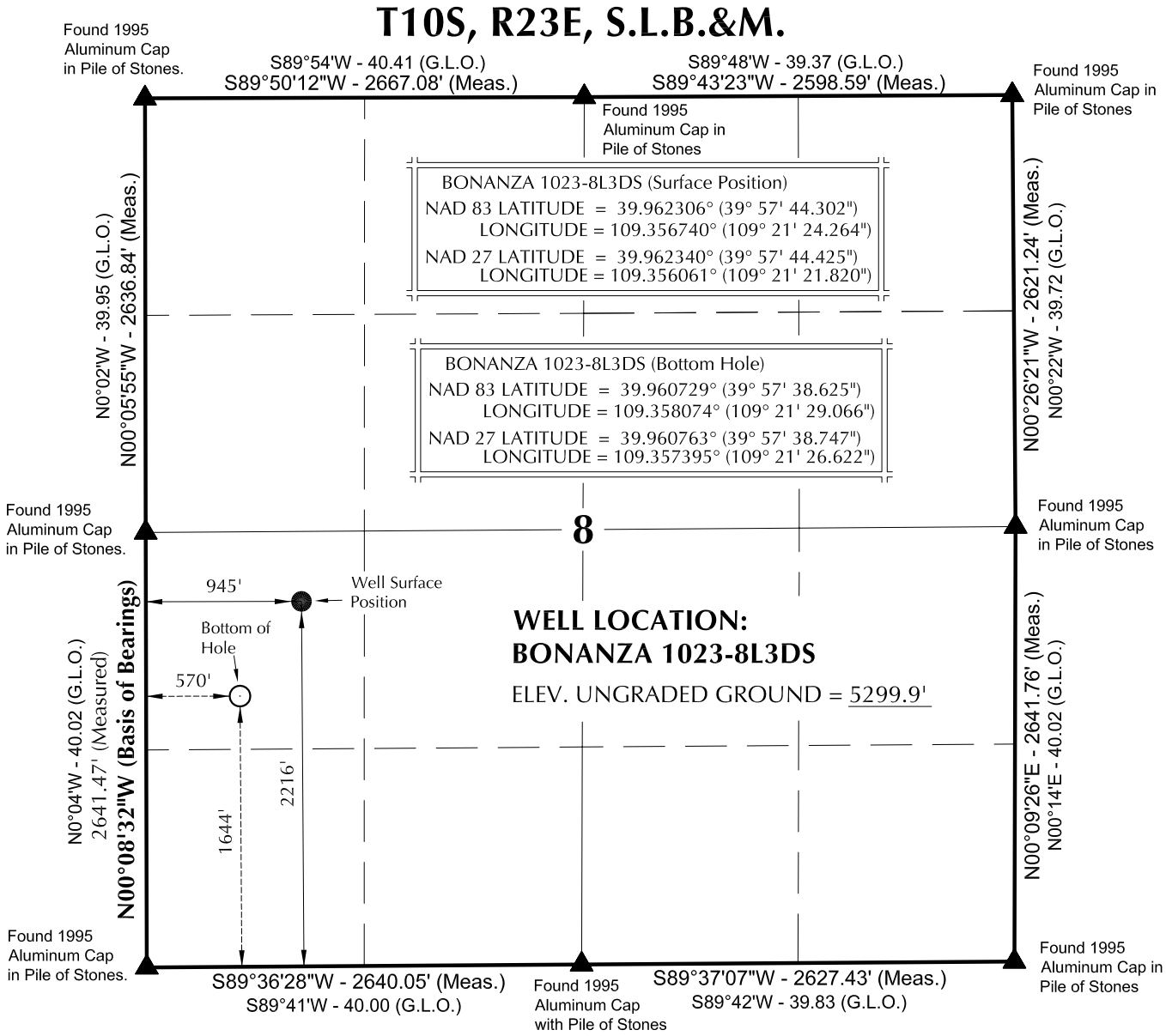
Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	8371		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 Buttress	8371	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	11	8.625	0	1870		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 LT&C	1870	28.0			

'APIWellNo:43047511530000'

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



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S32°59'33"W 685.63' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

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

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R KLAUGH STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

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

WELL PAD - BONANZA 1023-8L

BONANZA 1023-8L3DS
WELL PLAT
1644' FSL, 570' FWL (Bottom Hole)
NW $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 8, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 02-18-10	SURVEYED BY: M.S.B.	SHEET NO:
DATE DRAWN: 02-19-10	DRAWN BY: E.M.S.	5
SCALE: 1" = 1000'	Date Last Revised: 06-02-10 E.M.S.	5 OF 19

'APIWellNo:43047511530000'

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
Bonanza 1023-8L PAD
BONANZA 1023-8L3DS

BONANZA 1023-8L3DS

Plan: PLAN #1 5-7-10 RHS

Standard Planning Report

07 May, 2010

'APIWellNo:43047511530000'

Anadarko Petroleum Corporation

Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-8L PAD
Well: BONANZA 1023-8L3DS
Wellbore: BONANZA 1023-8L3DS
Section: SECTION 8 T10S R23E
SHL: 2216 FSL 945 FWL
Design: PLAN #1 5-7-10 RHS
Latitude: 39° 57' 44.424 N
Longitude: 109° 21' 21.820 W
GL: 5299.00
KB: WELL @ 5313.00ft (Original Well Elev)

Weatherford®

T M

Azimuths to True North
Magnetic North: 11.17°

Magnetic Field
Strength: 52452.0snT
Dip Angle: 65.91°
Date: 5/7/2010
Model: BGGM2009

LEGEND

- BONANZA 1023-8E2DS, BONANZA 1023-8E2DS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8E3DS, BONANZA 1023-8E3DS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8K1CS, BONANZA 1023-8K1CS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8K4CS, BONANZA 1023-8K4CS, PLAN #1 5-7-10 RHS V0
- Bonanza 1023-8L EXISTING, Bonanza 1023-8L EXISITNG, Bonanza 1023-8L EXISITNG V0
- PLAN #1 5-7-10 RHS

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1103.00	1103.96	GREEN RIVER
4064.00	4151.09	WASATCH
7085.00	7173.82	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
1870.00	1872.02	8 5/8"	8.62

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
450.00	3.00	250.00	449.93	-1.34	-3.69	2.00	250.00	3.14	Start 150.00 hold at 450.00 MD
600.00	3.00	250.00	599.73	-4.03	-11.07	0.00	0.00	9.41	Start Turn -38.25
698.50	3.00	212.32	698.09	-7.20	-15.01	2.00	-90.00	14.23	Start 1273.66 hold at 698.50 MD
1972.15	3.00	212.32	1970.00	-63.53	-50.65	0.00	0.00	80.88	Start DLS 2.00 TFO 0.00
2822.22	20.00	212.32	2799.95	-206.23	-140.95	2.00	0.00	249.73	Start 768.53 hold at 2822.22 MD
3590.75	20.00	212.32	3522.12	-428.36	-281.51	0.00	0.00	512.58	Start Drop -2.00
4590.82	0.00	0.00	4502.00	-574.37	-373.90	2.00	180.00	685.35	Start 3780.00 hold at 4590.82 MD
8370.82	0.00	0.00	8282.00	-574.37	-373.90	0.00	0.00	685.35	TD at 8370.82

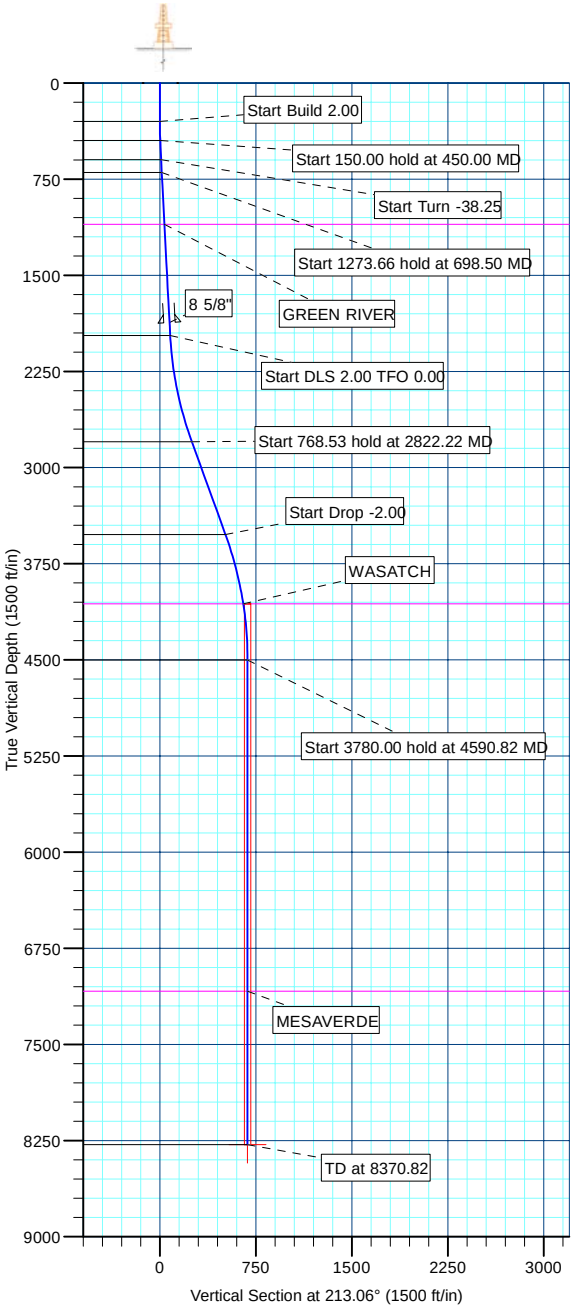
WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

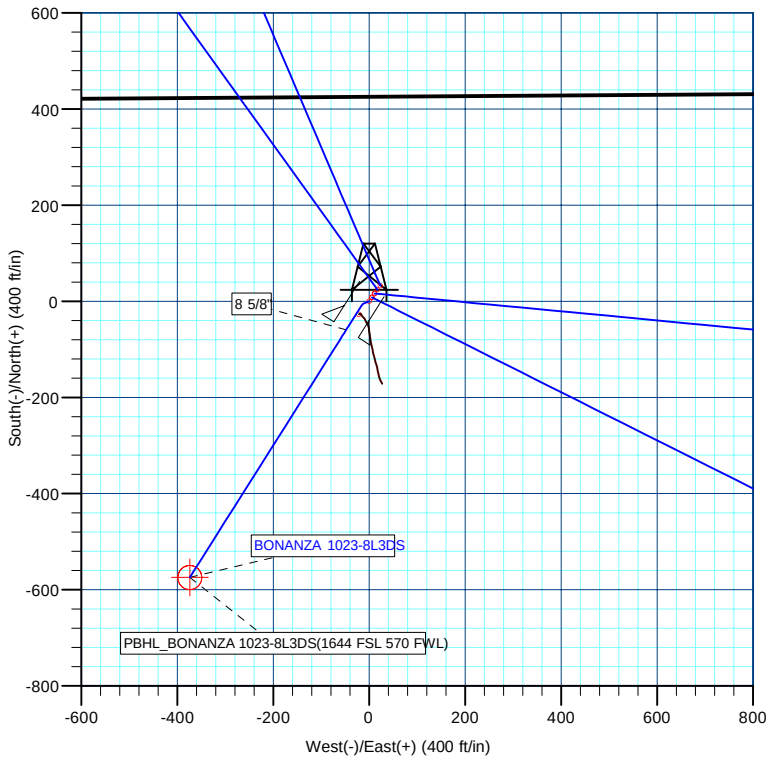
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8282.00	-574.37	-373.90	39° 57' 38.747 N	109° 21' 26.622 W	Circle (Radius: 25.00)

WELL DETAILS: BONANZA 1023-8L3DS

Ground Level: 5299.00

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	14516576.44	2101079.45	39° 57' 44.424 N	109° 21' 21.820 W	





Plan: PLAN #1 5-7-10 RHS (BONANZA 1023-8L3DS/BONANZA 1023-8L3DS)

Created By: Robert H. Scott Date: 18:59, May 07 2010

Weatherford International Ltd.

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	**North Reference:**	True
Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-8L3DS		
Design:	PLAN #1 5-7-10 RHS		

Project UINTAH COUNTY, UTAH (nad 27),

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 Bonanza 1023-8L PAD, SECTION 8 T10S R23E

Site Position:		**Northing:**	14,516,576.44 ft	**Latitude:**	39° 57' 44.424 N
From:	Lat/Long	**Easting:**	2,101,079.45 ft	**Longitude:**	109° 21' 21.820 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	1.06 °

Well BONANZA 1023-8L3DS

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,516,576.44 ft	**Latitude:**	39° 57' 44.424 N
	+E/-W	0.00 ft	**Easting:**	2,101,079.45 ft	**Longitude:**	109° 21' 21.820 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,299.00 ft

Wellbore BONANZA 1023-8L3DS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/7/2010	11.17	65.91	52,452

Design PLAN #1 5-7-10 RHS

Audit Notes:

Version:	**Phase:** PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	213.06

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	250.00	449.93	-1.34	-3.69	2.00	2.00	0.00	250.00	
600.00	3.00	250.00	599.73	-4.03	-11.07	0.00	0.00	0.00	0.00	
698.50	3.00	212.32	698.09	-7.20	-15.01	2.00	0.00	-38.25	-90.00	
1,972.15	3.00	212.32	1,970.00	-63.53	-50.65	0.00	0.00	0.00	0.00	
2,822.22	20.00	212.32	2,799.95	-206.23	-140.95	2.00	2.00	0.00	0.00	
3,590.75	20.00	212.32	3,522.12	-428.36	-281.51	0.00	0.00	0.00	0.00	
4,590.82	0.00	0.00	4,502.00	-574.37	-373.90	2.00	-2.00	0.00	180.00	
8,370.82	0.00	0.00	8,282.00	-574.37	-373.90	0.00	0.00	0.00	0.00	PBHL_BONANZA 1

Weatherford International Ltd.

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	**North Reference:**	True
Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-8L3DS		
Design:	PLAN #1 5-7-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 2.00									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	250.00	399.98	-0.60	-1.64	1.39	2.00	2.00	0.00
Start 150.00 hold at 450.00 MD									
450.00	3.00	250.00	449.93	-1.34	-3.69	3.14	2.00	2.00	0.00
500.00	3.00	250.00	499.86	-2.24	-6.15	5.23	0.00	0.00	0.00
Start Turn -38.25									
600.00	3.00	250.00	599.73	-4.03	-11.07	9.41	0.00	0.00	0.00
Start 1273.66 hold at 698.50 MD									
698.50	3.00	212.32	698.10	-7.09	-14.87	14.05	1.97	0.00	-38.25
700.00	3.00	212.32	699.59	-7.27	-15.05	14.30	0.00	0.00	0.00
800.00	3.00	212.32	799.45	-11.69	-17.85	19.54	0.00	0.00	0.00
900.00	3.00	212.32	899.31	-16.11	-20.65	24.77	0.00	0.00	0.00
1,000.00	3.00	212.32	999.18	-20.54	-23.45	30.00	0.00	0.00	0.00
1,100.00	3.00	212.32	1,099.04	-24.96	-26.25	35.24	0.00	0.00	0.00
GREEN RIVER									
1,103.96	3.00	212.32	1,103.00	-25.13	-26.36	35.44	0.00	0.00	0.00
1,200.00	3.00	212.32	1,198.90	-29.38	-29.04	40.47	0.00	0.00	0.00
1,300.00	3.00	212.32	1,298.77	-33.80	-31.84	45.70	0.00	0.00	0.00
1,400.00	3.00	212.32	1,398.63	-38.23	-34.64	50.94	0.00	0.00	0.00
1,500.00	3.00	212.32	1,498.49	-42.65	-37.44	56.17	0.00	0.00	0.00
1,600.00	3.00	212.32	1,598.36	-47.07	-40.24	61.40	0.00	0.00	0.00
1,700.00	3.00	212.32	1,698.22	-51.49	-43.04	66.64	0.00	0.00	0.00
1,800.00	3.00	212.32	1,798.08	-55.92	-45.84	71.87	0.00	0.00	0.00
8 5/8"									
1,872.02	3.00	212.32	1,870.00	-59.10	-47.85	75.64	0.00	0.00	0.00
1,900.00	3.00	212.32	1,897.94	-60.34	-48.63	77.10	0.00	0.00	0.00
Start DLS 2.00 TFO 0.00									
1,972.15	3.00	212.32	1,970.00	-63.53	-50.65	80.88	0.00	0.00	0.00
2,000.00	3.56	212.32	1,997.80	-64.88	-51.50	82.47	2.00	2.00	0.00
2,100.00	5.56	212.32	2,097.48	-71.59	-55.75	90.41	2.00	2.00	0.00
2,200.00	7.56	212.32	2,196.82	-81.24	-61.86	101.83	2.00	2.00	0.00
2,300.00	9.56	212.32	2,295.70	-93.81	-69.81	116.71	2.00	2.00	0.00
2,400.00	11.56	212.32	2,394.00	-109.29	-79.61	135.03	2.00	2.00	0.00
2,500.00	13.56	212.32	2,491.61	-127.66	-91.23	156.77	2.00	2.00	0.00
2,600.00	15.56	212.32	2,588.39	-148.90	-104.67	181.90	2.00	2.00	0.00
2,700.00	17.56	212.32	2,684.24	-172.98	-119.91	210.39	2.00	2.00	0.00
2,800.00	19.56	212.32	2,779.04	-199.87	-136.93	242.21	2.00	2.00	0.00
Start 768.53 hold at 2822.22 MD									
2,822.22	20.00	212.32	2,799.95	-206.23	-140.95	249.73	2.00	2.00	0.00
2,900.00	20.00	212.32	2,873.03	-228.71	-155.17	276.33	0.00	0.00	0.00
3,000.00	20.00	212.32	2,967.00	-257.61	-173.46	310.53	0.00	0.00	0.00
3,100.00	20.00	212.32	3,060.97	-286.51	-191.75	344.73	0.00	0.00	0.00
3,200.00	20.00	212.32	3,154.94	-315.42	-210.04	378.93	0.00	0.00	0.00
3,300.00	20.00	212.32	3,248.91	-344.32	-228.33	413.14	0.00	0.00	0.00
3,400.00	20.00	212.32	3,342.88	-373.23	-246.62	447.34	0.00	0.00	0.00
3,500.00	20.00	212.32	3,436.84	-402.13	-264.91	481.54	0.00	0.00	0.00
Start Drop -2.00									
3,590.75	20.00	212.32	3,522.12	-428.36	-281.51	512.58	0.00	0.00	0.00
3,600.00	19.82	212.32	3,530.82	-431.02	-283.19	515.73	2.00	-2.00	0.00
3,700.00	17.82	212.32	3,625.47	-458.27	-300.44	547.97	2.00	-2.00	0.00
3,800.00	15.82	212.32	3,721.19	-482.72	-315.91	576.90	2.00	-2.00	0.00
3,900.00	13.82	212.32	3,817.86	-504.33	-329.58	602.47	2.00	-2.00	0.00

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	**North Reference:**	True
Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-8L3DS		
Design:	PLAN #1 5-7-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	11.82	212.32	3,915.36	-523.07	-341.44	624.65	2.00	-2.00	0.00
4,100.00	9.82	212.32	4,013.58	-538.93	-351.48	643.41	2.00	-2.00	0.00
WASATCH									
4,151.09	8.79	212.32	4,064.00	-545.91	-355.89	651.67	2.00	-2.00	0.00
4,200.00	7.82	212.32	4,112.39	-551.88	-359.67	658.74	2.00	-2.00	0.00
4,300.00	5.82	212.32	4,211.68	-561.91	-366.02	670.61	2.00	-2.00	0.00
4,400.00	3.82	212.32	4,311.32	-569.00	-370.51	679.00	2.00	-2.00	0.00
4,500.00	1.82	212.32	4,411.20	-573.16	-373.13	683.91	2.00	-2.00	0.00
Start 3780.00 hold at 4590.82 MD									
4,590.82	0.00	0.00	4,502.00	-574.37	-373.90	685.35	2.00	-2.00	0.00
4,600.00	0.00	0.00	4,511.18	-574.37	-373.90	685.35	0.00	0.00	0.00
4,700.00	0.00	0.00	4,611.18	-574.37	-373.90	685.35	0.00	0.00	0.00
4,800.00	0.00	0.00	4,711.18	-574.37	-373.90	685.35	0.00	0.00	0.00
4,900.00	0.00	0.00	4,811.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,000.00	0.00	0.00	4,911.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,100.00	0.00	0.00	5,011.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,200.00	0.00	0.00	5,111.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,300.00	0.00	0.00	5,211.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,400.00	0.00	0.00	5,311.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,500.00	0.00	0.00	5,411.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,600.00	0.00	0.00	5,511.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,700.00	0.00	0.00	5,611.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,800.00	0.00	0.00	5,711.18	-574.37	-373.90	685.35	0.00	0.00	0.00
5,900.00	0.00	0.00	5,811.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,000.00	0.00	0.00	5,911.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,100.00	0.00	0.00	6,011.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,200.00	0.00	0.00	6,111.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,300.00	0.00	0.00	6,211.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,400.00	0.00	0.00	6,311.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,500.00	0.00	0.00	6,411.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,600.00	0.00	0.00	6,511.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,700.00	0.00	0.00	6,611.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,800.00	0.00	0.00	6,711.18	-574.37	-373.90	685.35	0.00	0.00	0.00
6,900.00	0.00	0.00	6,811.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,000.00	0.00	0.00	6,911.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,100.00	0.00	0.00	7,011.18	-574.37	-373.90	685.35	0.00	0.00	0.00
MESAVERDE									
7,173.82	0.00	0.00	7,085.00	-574.37	-373.90	685.35	0.00	0.00	0.00
7,200.00	0.00	0.00	7,111.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,300.00	0.00	0.00	7,211.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,400.00	0.00	0.00	7,311.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,500.00	0.00	0.00	7,411.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,600.00	0.00	0.00	7,511.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,700.00	0.00	0.00	7,611.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,800.00	0.00	0.00	7,711.18	-574.37	-373.90	685.35	0.00	0.00	0.00
7,900.00	0.00	0.00	7,811.18	-574.37	-373.90	685.35	0.00	0.00	0.00
8,000.00	0.00	0.00	7,911.18	-574.37	-373.90	685.35	0.00	0.00	0.00
8,100.00	0.00	0.00	8,011.18	-574.37	-373.90	685.35	0.00	0.00	0.00
8,200.00	0.00	0.00	8,111.18	-574.37	-373.90	685.35	0.00	0.00	0.00
8,300.00	0.00	0.00	8,211.18	-574.37	-373.90	685.35	0.00	0.00	0.00
TD at 8370.82 - PBHL_BONANZA 1023-8L3DS(1644 FSL 570 FWL)									
8,370.82	0.00	0.00	8,282.00	-574.37	-373.90	685.35	0.00	0.00	0.00

Weatherford International Ltd.

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Company:	ANADARKO PETROLEUM CORP.	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	**North Reference:**	True
Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BONANZA 1023-8L3DS		
Design:	PLAN #1 5-7-10 RHS		

Design 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
PBHL_BONANZA 102 - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,282.00	-574.37	-373.90	14,515,995.27	2,100,716.19	39° 57' 38.747 N	109° 21' 26.622 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,872.02	1,870.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,103.96	1,103.00	GREEN RIVER			
4,151.09	4,064.00	WASATCH			
7,173.82	7,085.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
450.00	449.93	-1.34	-3.69	Start 150.00 hold at 450.00 MD
600.00	599.73	-4.03	-11.07	Start Turn -38.25
698.50	698.10	-7.09	-14.87	Start 1273.66 hold at 698.50 MD
1,972.15	1,970.00	-63.53	-50.65	Start DLS 2.00 TFO 0.00
2,822.22	2,799.95	-206.23	-140.95	Start 768.53 hold at 2822.22 MD
3,590.75	3,522.12	-428.36	-281.51	Start Drop -2.00
4,590.82	4,502.00	-574.37	-373.90	Start 3780.00 hold at 4590.82 MD
8,370.82	8,282.00	-574.37	-373.90	TD at 8370.82

'APIWellNo:43047511530000'

ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)
Bonanza 1023-8L PAD
BONANZA 1023-8L3DS

BONANZA 1023-8L3DS
PLAN #1 5-7-10 RHS

Anticollision Report

07 May, 2010

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Reference PLAN #1 5-7-10 RHS

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	0.00 to 20,000.00ft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 5/7/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,370.82	PLAN #1 5-7-10 RHS (BONANZA 1023-8L	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Bonanza 1023-8L PAD						
BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLA	300.00	300.00	39.90	38.81	36.526	CC, ES
BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLA	600.00	596.58	58.05	55.62	23.907	SF
BONANZA 1023-8E3DS - BONANZA 1023-8E3DS - PLA	300.00	300.00	29.96	28.87	27.425	CC, ES
BONANZA 1023-8E3DS - BONANZA 1023-8E3DS - PLA	600.00	597.97	45.41	42.98	18.693	SF
BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLA	300.00	300.00	20.02	18.92	18.325	CC, ES
BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLA	400.00	399.54	22.45	20.93	14.780	SF
BONANZA 1023-8K4CS - BONANZA 1023-8K4CS - PLA	300.00	300.00	10.24	9.15	9.372	CC, ES
BONANZA 1023-8K4CS - BONANZA 1023-8K4CS - PLA	400.00	399.84	12.23	10.72	8.081	SF
Bonanza 1023-8L EXISTING - Bonanza 1023-8L EXISIT	1,016.11	1,001.25	8.67	4.12	1.906	CC, ES, SF

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD **Offset Well Error:** 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	35.67	32.42	23.26	39.90				
100.00	100.00	100.00	100.00	0.10	0.10	35.67	32.42	23.26	39.90	39.71	0.19	206.412	
200.00	200.00	200.00	200.00	0.32	0.32	35.67	32.42	23.26	39.90	39.26	0.64	62.068	
300.00	300.00	300.00	300.00	0.55	0.55	35.67	32.42	23.26	39.90	38.81	1.09	36.526	CC, ES
400.00	399.98	399.23	399.21	0.76	0.77	144.97	34.00	22.59	42.24	40.71	1.53	27.624	
450.00	449.93	448.73	448.67	0.86	0.89	144.20	35.97	21.75	45.17	43.42	1.75	25.821	
500.00	499.86	498.14	497.98	0.97	1.00	143.02	38.71	20.57	48.93	46.97	1.97	24.849	
600.00	599.73	596.58	596.05	1.19	1.24	139.08	46.52	17.24	58.05	55.62	2.43	23.907	SF
698.50	698.09	692.66	691.43	1.40	1.50	170.93	57.12	12.71	70.36	67.47	2.89	24.352	
700.00	699.59	694.12	692.87	1.41	1.50	170.82	57.31	12.63	70.58	67.68	2.90	24.370	
800.00	799.45	790.39	787.99	1.63	1.80	164.17	70.92	6.81	86.97	83.60	3.37	25.779	
900.00	899.31	885.36	881.29	1.86	2.14	158.68	87.22	-0.15	106.88	103.01	3.86	27.684	
1,000.00	999.18	978.85	972.52	2.09	2.52	154.24	106.03	-8.19	130.24	125.89	4.35	29.925	
1,100.00	1,099.04	1,070.71	1,061.45	2.33	2.95	150.67	127.18	-17.22	156.97	152.12	4.85	32.384	
1,200.00	1,198.90	1,160.79	1,147.89	2.57	3.41	147.78	150.44	-27.17	186.93	181.59	5.34	34.983	
1,300.00	1,298.77	1,248.97	1,231.71	2.81	3.92	145.43	175.63	-37.93	219.99	214.15	5.84	37.667	
1,400.00	1,398.63	1,338.12	1,315.64	3.05	4.47	143.45	203.28	-49.74	255.81	249.47	6.34	40.343	
1,500.00	1,498.49	1,430.95	1,402.87	3.29	5.07	141.85	232.47	-62.22	292.32	285.47	6.85	42.664	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,600.00	1,598.36	1,523.77	1,490.09	3.54	5.67	140.61	261.67	-74.69	328.98	321.62	7.36	44.712	
1,700.00	1,698.22	1,616.60	1,577.32	3.78	6.29	139.61	290.86	-87.16	365.75	357.88	7.87	46.493	
1,800.00	1,798.08	1,709.42	1,664.55	4.03	6.90	138.80	320.06	-99.64	402.60	394.22	8.38	48.052	
1,900.00	1,897.94	1,802.25	1,751.78	4.27	7.52	138.12	349.25	-112.11	439.50	430.61	8.89	49.426	
1,972.15	1,970.00	1,869.23	1,814.71	4.45	7.97	137.70	370.32	-121.11	466.16	456.89	9.26	50.317	
2,000.00	1,997.80	1,895.04	1,838.97	4.52	8.15	137.41	378.44	-124.58	476.54	467.15	9.40	50.711	
2,100.00	2,097.48	1,987.17	1,925.54	4.78	8.77	136.56	407.41	-136.96	515.36	505.48	9.88	52.164	
2,200.00	2,196.82	2,078.30	2,011.18	5.07	9.38	135.98	436.08	-149.21	556.51	546.14	10.37	53.673	
2,300.00	2,295.70	2,168.34	2,095.79	5.39	9.99	135.60	464.39	-161.31	599.94	589.08	10.86	55.220	
2,400.00	2,394.00	2,257.16	2,179.25	5.74	10.60	135.37	492.33	-173.24	645.63	634.26	11.37	56.792	
2,500.00	2,491.61	2,344.66	2,261.48	6.14	11.19	135.25	519.85	-185.00	693.56	681.68	11.88	58.374	
2,600.00	2,588.39	2,430.73	2,342.36	6.57	11.78	135.22	546.92	-196.57	743.74	731.33	12.41	59.954	
2,700.00	2,684.24	2,515.28	2,421.80	7.06	12.35	135.23	573.51	-207.93	796.16	783.22	12.94	61.522	
2,800.00	2,779.04	2,598.19	2,499.71	7.59	12.92	135.28	599.59	-219.07	850.83	837.34	13.49	63.067	
2,822.22	2,799.95	2,616.38	2,516.81	7.72	13.04	135.29	605.31	-221.52	863.28	849.66	13.62	63.405	
2,900.00	2,873.03	2,679.90	2,576.50	8.17	13.47	136.04	625.29	-230.05	907.11	892.96	14.15	64.111	
3,000.00	2,967.00	2,761.57	2,653.24	8.77	14.03	136.90	650.97	-241.03	963.61	948.76	14.84	64.916	
3,100.00	3,060.97	2,843.24	2,729.98	9.38	14.59	137.67	676.66	-252.00	1,020.24	1,004.69	15.55	65.625	
3,200.00	3,154.94	2,924.90	2,806.73	10.00	15.14	138.36	702.34	-262.98	1,076.98	1,060.73	16.26	66.255	
3,300.00	3,248.91	3,006.57	2,883.47	10.63	15.70	138.98	728.03	-273.95	1,133.83	1,116.86	16.97	66.819	
3,400.00	3,342.88	3,088.24	2,960.21	11.27	16.26	139.55	753.72	-284.93	1,190.75	1,173.07	17.69	67.327	
3,500.00	3,436.84	3,169.91	3,036.96	11.91	16.82	140.06	779.40	-295.90	1,247.75	1,229.35	18.41	67.786	
3,590.75	3,522.12	3,244.02	3,106.60	12.50	17.33	140.49	802.71	-305.86	1,299.53	1,280.47	19.06	68.168	
3,600.00	3,530.82	3,251.59	3,113.71	12.55	17.38	140.61	805.09	-306.88	1,304.80	1,285.66	19.14	68.161	
3,700.00	3,625.47	3,334.27	3,191.41	13.00	17.94	141.82	831.10	-317.99	1,360.59	1,340.64	19.95	68.200	
3,800.00	3,721.19	3,418.61	3,270.66	13.43	18.52	142.83	857.62	-329.32	1,414.10	1,393.34	20.76	68.127	
3,900.00	3,817.86	3,504.49	3,351.36	13.83	19.11	143.66	884.63	-340.86	1,465.25	1,443.70	21.55	67.983	
4,000.00	3,915.36	3,591.81	3,433.42	14.20	19.70	144.34	912.10	-352.60	1,513.97	1,491.64	22.33	67.796	
4,100.00	4,013.58	3,680.47	3,516.73	14.54	20.31	144.88	939.98	-364.51	1,560.20	1,537.11	23.08	67.586	
4,200.00	4,112.39	3,770.35	3,601.19	14.83	20.93	145.29	968.25	-376.59	1,603.87	1,580.07	23.81	67.368	
4,300.00	4,211.68	3,956.27	3,777.67	15.08	21.89	145.42	1,021.95	-399.53	1,642.59	1,617.89	24.70	66.515	
4,400.00	4,311.32	4,163.59	3,978.44	15.30	22.76	145.45	1,069.28	-419.76	1,672.49	1,646.96	25.53	65.520	
4,500.00	4,411.20	4,380.41	4,191.83	15.47	23.45	145.42	1,104.37	-434.75	1,692.93	1,666.68	26.26	64.479	
4,590.82	4,502.00	4,582.78	4,393.06	15.60	23.90	-2.33	1,123.65	-442.99	1,702.91	1,676.10	26.81	63.511	
4,600.00	4,511.18	4,603.41	4,413.66	15.61	23.94	-2.35	1,124.88	-443.51	1,703.47	1,676.61	26.86	63.422	
4,700.00	4,611.18	4,801.05	4,611.18	15.73	24.17	-2.41	1,129.82	-445.62	1,705.70	1,678.43	27.27	62.541	
4,800.00	4,711.18	4,901.05	4,711.18	15.85	24.25	-2.41	1,129.82	-445.62	1,705.70	1,678.13	27.57	61.870	
4,900.00	4,811.18	5,001.05	4,811.18	15.97	24.34	-2.41	1,129.82	-445.62	1,705.70	1,677.83	27.87	61.205	
5,000.00	4,911.18	5,101.05	4,911.18	16.10	24.43	-2.41	1,129.82	-445.62	1,705.70	1,677.53	28.17	60.544	
5,100.00	5,011.18	5,201.05	5,011.18	16.22	24.53	-2.41	1,129.82	-445.62	1,705.70	1,677.22	28.48	59.890	
5,200.00	5,111.18	5,301.05	5,111.18	16.35	24.62	-2.41	1,129.82	-445.62	1,705.70	1,676.91	28.79	59.242	
5,300.00	5,211.18	5,401.05	5,211.18	16.48	24.72	-2.41	1,129.82	-445.62	1,705.70	1,676.59	29.11	58.601	
5,400.00	5,311.18	5,501.05	5,311.18	16.62	24.81	-2.41	1,129.82	-445.62	1,705.70	1,676.27	29.43	57.967	
5,500.00	5,411.18	5,601.05	5,411.18	16.75	24.91	-2.41	1,129.82	-445.62	1,705.70	1,675.95	29.75	57.339	
5,600.00	5,511.18	5,701.05	5,511.18	16.89	25.01	-2.41	1,129.82	-445.62	1,705.70	1,675.63	30.07	56.719	
5,700.00	5,611.18	5,801.05	5,611.18	17.03	25.12	-2.41	1,129.82	-445.62	1,705.70	1,675.30	30.40	56.106	
5,800.00	5,711.18	5,901.05	5,711.18	17.17	25.22	-2.41	1,129.82	-445.62	1,705.70	1,674.97	30.73	55.501	
5,900.00	5,811.18	6,001.05	5,811.18	17.31	25.33	-2.41	1,129.82	-445.62	1,705.70	1,674.63	31.07	54.904	
6,000.00	5,911.18	6,101.05	5,911.18	17.46	25.43	-2.41	1,129.82	-445.62	1,705.70	1,674.29	31.40	54.314	
6,100.00	6,011.18	6,201.05	6,011.18	17.60	25.54	-2.41	1,129.82	-445.62	1,705.70	1,673.95	31.74	53.732	
6,200.00	6,111.18	6,301.05	6,111.18	17.75	25.65	-2.41	1,129.82	-445.62	1,705.70	1,673.61	32.09	53.158	
6,300.00	6,211.18	6,401.05	6,211.18	17.90	25.76	-2.41	1,129.82	-445.62	1,705.70	1,673.27	32.43	52.592	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,400.00	6,311.18	6,501.05	6,311.18	18.05	25.88	-2.41	1,129.82	-445.62	1,705.70	1,672.92	32.78	52.034	
6,500.00	6,411.18	6,601.05	6,411.18	18.20	25.99	-2.41	1,129.82	-445.62	1,705.70	1,672.57	33.13	51.484	
6,600.00	6,511.18	6,701.05	6,511.18	18.35	26.11	-2.41	1,129.82	-445.62	1,705.70	1,672.21	33.48	50.941	
6,700.00	6,611.18	6,801.05	6,611.18	18.51	26.22	-2.41	1,129.82	-445.62	1,705.70	1,671.86	33.84	50.407	
6,800.00	6,711.18	6,901.05	6,711.18	18.67	26.34	-2.41	1,129.82	-445.62	1,705.70	1,671.50	34.20	49.880	
6,900.00	6,811.18	7,001.05	6,811.18	18.82	26.46	-2.41	1,129.82	-445.62	1,705.70	1,671.14	34.56	49.362	
7,000.00	6,911.18	7,101.05	6,911.18	18.98	26.59	-2.41	1,129.82	-445.62	1,705.70	1,670.78	34.92	48.851	
7,100.00	7,011.18	7,201.05	7,011.18	19.14	26.71	-2.41	1,129.82	-445.62	1,705.70	1,670.42	35.28	48.347	
7,200.00	7,111.18	7,301.05	7,111.18	19.31	26.83	-2.41	1,129.82	-445.62	1,705.70	1,670.05	35.65	47.852	
7,300.00	7,211.18	7,401.05	7,211.18	19.47	26.96	-2.41	1,129.82	-445.62	1,705.70	1,669.69	36.01	47.363	
7,400.00	7,311.18	7,501.05	7,311.18	19.63	27.08	-2.41	1,129.82	-445.62	1,705.70	1,669.32	36.38	46.883	
7,500.00	7,411.18	7,601.05	7,411.18	19.80	27.21	-2.41	1,129.82	-445.62	1,705.70	1,668.95	36.75	46.410	
7,600.00	7,511.18	7,701.05	7,511.18	19.97	27.34	-2.41	1,129.82	-445.62	1,705.70	1,668.57	37.13	45.944	
7,700.00	7,611.18	7,801.05	7,611.18	20.13	27.47	-2.41	1,129.82	-445.62	1,705.70	1,668.20	37.50	45.485	
7,800.00	7,711.18	7,901.05	7,711.18	20.30	27.60	-2.41	1,129.82	-445.62	1,705.70	1,667.82	37.88	45.033	
7,900.00	7,811.18	8,001.05	7,811.18	20.47	27.74	-2.41	1,129.82	-445.62	1,705.70	1,667.44	38.25	44.589	
8,000.00	7,911.18	8,101.05	7,911.18	20.64	27.87	-2.41	1,129.82	-445.62	1,705.70	1,667.07	38.63	44.151	
8,100.00	8,011.18	8,201.05	8,011.18	20.82	28.01	-2.41	1,129.82	-445.62	1,705.70	1,666.68	39.01	43.721	
8,200.00	8,111.18	8,301.05	8,111.18	20.99	28.14	-2.41	1,129.82	-445.62	1,705.70	1,666.30	39.40	43.297	
8,300.00	8,211.18	8,401.05	8,211.18	21.16	28.28	-2.41	1,129.82	-445.62	1,705.70	1,665.92	39.78	42.879	
8,370.82	8,282.00	8,471.87	8,282.00	21.29	28.38	-2.41	1,129.82	-445.62	1,705.70	1,665.65	40.05	42.587	

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E3DS - BONANZA 1023-8E3DS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	35.46	24.40	17.38	29.96				
100.00	100.00	100.00	100.00	0.10	0.10	35.46	24.40	17.38	29.96	29.76	0.19	154.982	
200.00	200.00	200.00	200.00	0.32	0.32	35.46	24.40	17.38	29.96	29.31	0.64	46.603	
300.00	300.00	300.00	300.00	0.55	0.55	35.46	24.40	17.38	29.96	28.87	1.09	27.425	CC, ES
400.00	399.98	399.62	399.60	0.76	0.77	144.26	25.81	16.37	31.96	30.43	1.53	20.918	
450.00	449.93	449.35	449.28	0.86	0.89	142.96	27.56	15.10	34.48	32.73	1.75	19.736	
500.00	499.86	498.99	498.83	0.97	1.00	141.06	30.01	13.34	37.69	35.73	1.97	19.167	
600.00	599.73	597.97	597.44	1.19	1.24	135.17	36.97	8.33	45.41	42.98	2.43	18.693	SF
698.50	698.09	694.64	693.39	1.40	1.51	164.72	46.43	1.52	56.31	53.42	2.90	19.426	
700.00	699.59	696.11	694.84	1.41	1.51	164.57	46.59	1.40	56.52	53.61	2.91	19.448	
800.00	799.45	793.01	790.58	1.63	1.81	155.97	58.74	-7.35	71.76	68.37	3.39	21.146	
900.00	899.31	888.67	884.53	1.86	2.16	149.19	73.31	-17.84	90.68	86.79	3.89	23.308	
1,000.00	999.18	982.88	976.43	2.09	2.55	143.91	90.14	-29.96	113.18	108.78	4.39	25.769	
1,100.00	1,099.04	1,075.48	1,066.05	2.33	2.98	139.79	109.06	-43.58	139.10	134.21	4.90	28.412	
1,200.00	1,198.90	1,166.34	1,153.19	2.57	3.46	136.55	129.90	-58.59	168.32	162.92	5.40	31.161	
1,300.00	1,298.77	1,255.31	1,237.70	2.81	3.98	133.95	152.47	-74.84	200.68	194.78	5.91	33.967	
1,400.00	1,398.63	1,345.57	1,322.64	3.05	4.55	131.80	177.25	-92.69	235.74	229.33	6.42	36.727	
1,500.00	1,498.49	1,438.74	1,410.19	3.29	5.16	130.12	203.11	-111.31	271.39	264.45	6.94	39.122	
1,600.00	1,598.36	1,531.92	1,497.75	3.54	5.78	128.83	228.97	-129.93	307.19	299.74	7.45	41.224	
1,700.00	1,698.22	1,625.09	1,585.30	3.78	6.41	127.80	254.83	-148.55	343.10	335.13	7.97	43.051	
1,800.00	1,798.08	1,718.26	1,672.85	4.03	7.04	126.98	280.69	-167.17	379.09	370.60	8.49	44.651	
1,900.00	1,897.94	1,811.43	1,760.41	4.27	7.68	126.29	306.55	-185.79	415.14	406.13	9.01	46.060	
1,972.15	1,970.00	1,878.66	1,823.58	4.45	8.14	125.87	325.21	-199.23	441.17	431.78	9.39	46.975	
2,000.00	1,997.80	1,904.58	1,847.94	4.52	8.31	125.55	332.41	-204.41	451.30	441.77	9.53	47.369	
2,100.00	2,097.48	1,997.23	1,935.00	4.78	8.95	124.68	358.12	-222.93	488.87	478.85	10.03	48.756	
2,200.00	2,196.82	2,089.13	2,021.35	5.07	9.58	124.13	383.63	-241.29	528.29	517.74	10.54	50.099	
2,300.00	2,295.70	2,180.15	2,106.88	5.39	10.21	123.83	408.89	-259.49	569.50	558.42	11.08	51.393	
2,400.00	2,394.00	2,270.18	2,191.49	5.74	10.83	123.72	433.88	-277.48	612.53	600.90	11.64	52.634	
2,500.00	2,491.61	2,359.12	2,275.07	6.14	11.44	123.76	458.56	-295.26	657.40	645.19	12.22	53.818	
2,600.00	2,588.39	2,446.86	2,357.51	6.57	12.05	123.90	482.92	-312.79	704.14	691.32	12.82	54.945	
2,700.00	2,684.24	2,533.29	2,438.73	7.06	12.65	124.11	506.90	-330.07	752.78	739.34	13.44	56.015	
2,800.00	2,779.04	2,618.31	2,518.62	7.59	13.24	124.37	530.50	-347.06	803.38	789.29	14.09	57.028	
2,822.22	2,799.95	2,637.00	2,536.18	7.72	13.37	124.43	535.69	-350.79	814.89	800.65	14.24	57.245	
2,900.00	2,873.03	2,702.28	2,597.53	8.17	13.82	125.38	553.81	-363.84	855.44	840.59	14.84	57.635	
3,000.00	2,967.00	2,786.22	2,676.40	8.77	14.40	126.47	577.10	-380.61	907.80	892.17	15.63	58.066	
3,100.00	3,060.97	2,872.75	2,757.72	9.38	15.00	127.48	601.11	-397.90	960.38	943.94	16.44	58.415	
3,200.00	3,154.94	2,997.64	2,876.08	10.00	15.67	128.83	633.41	-421.16	1,011.24	993.92	17.32	58.391	
3,300.00	3,248.91	3,127.83	3,001.20	10.63	16.27	130.18	662.59	-442.17	1,058.75	1,040.56	18.19	58.204	
3,400.00	3,342.88	3,263.10	3,132.79	11.27	16.82	131.56	687.99	-460.46	1,102.74	1,083.68	19.06	57.854	
3,500.00	3,436.84	3,403.13	3,270.40	11.91	17.30	132.98	708.94	-475.55	1,143.04	1,123.12	19.92	57.380	
3,590.75	3,522.12	3,533.93	3,399.95	12.50	17.65	134.31	723.56	-486.08	1,176.30	1,155.62	20.68	56.886	
3,600.00	3,530.82	3,547.46	3,413.39	12.55	17.68	134.50	724.79	-486.97	1,179.50	1,158.74	20.77	56.801	
3,700.00	3,625.47	3,696.68	3,562.06	13.00	17.98	136.39	735.03	-494.33	1,210.61	1,188.99	21.62	55.984	
3,800.00	3,721.19	3,850.62	3,715.90	13.43	18.18	138.09	738.98	-497.18	1,235.09	1,212.67	22.42	55.095	
3,900.00	3,817.86	3,952.57	3,817.86	13.83	18.27	139.17	739.01	-497.20	1,254.59	1,231.51	23.08	54.361	
4,000.00	3,915.36	4,050.08	3,915.36	14.20	18.37	140.04	739.01	-497.20	1,271.66	1,247.96	23.69	53.670	
4,100.00	4,013.58	4,148.30	4,013.58	14.54	18.47	140.76	739.01	-497.20	1,286.22	1,261.96	24.26	53.009	
4,200.00	4,112.39	4,247.11	4,112.39	14.83	18.56	141.33	739.01	-497.20	1,298.20	1,273.41	24.79	52.373	
4,300.00	4,211.68	4,346.40	4,211.68	15.08	18.67	141.77	739.01	-497.20	1,307.52	1,282.25	25.26	51.756	
4,400.00	4,311.32	4,446.04	4,311.32	15.30	18.77	142.08	739.01	-497.20	1,314.14	1,288.45	25.69	51.153	
4,500.00	4,411.20	4,545.91	4,411.20	15.47	18.88	142.26	739.01	-497.20	1,318.02	1,291.95	26.07	50.559	
4,590.82	4,502.00	4,636.72	4,502.00	15.60	18.98	-5.36	739.01	-497.20	1,319.16	1,292.78	26.38	50.006	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E3DS - BONANZA 1023-8E3DS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,600.00	4,511.18	4,645.90	4,511.18	15.61	18.99	-5.36	739.01	-497.20	1,319.16	1,292.75	26.41	49.954	
4,700.00	4,611.18	4,745.90	4,611.18	15.73	19.10	-5.36	739.01	-497.20	1,319.16	1,292.45	26.71	49.394	
4,800.00	4,711.18	4,845.90	4,711.18	15.85	19.21	-5.36	739.01	-497.20	1,319.16	1,292.15	27.01	48.839	
4,900.00	4,811.18	4,945.90	4,811.18	15.97	19.33	-5.36	739.01	-497.20	1,319.16	1,291.84	27.32	48.289	
5,000.00	4,911.18	5,045.90	4,911.18	16.10	19.44	-5.36	739.01	-497.20	1,319.16	1,291.53	27.63	47.745	
5,100.00	5,011.18	5,145.90	5,011.18	16.22	19.56	-5.36	739.01	-497.20	1,319.16	1,291.21	27.94	47.206	
5,200.00	5,111.18	5,245.90	5,111.18	16.35	19.68	-5.36	739.01	-497.20	1,319.16	1,290.89	28.26	46.674	
5,300.00	5,211.18	5,345.90	5,211.18	16.48	19.80	-5.36	739.01	-497.20	1,319.16	1,290.57	28.59	46.148	
5,400.00	5,311.18	5,445.90	5,311.18	16.62	19.93	-5.36	739.01	-497.20	1,319.16	1,290.25	28.91	45.628	
5,500.00	5,411.18	5,545.90	5,411.18	16.75	20.05	-5.36	739.01	-497.20	1,319.16	1,289.92	29.24	45.114	
5,600.00	5,511.18	5,645.90	5,511.18	16.89	20.18	-5.36	739.01	-497.20	1,319.16	1,289.58	29.57	44.607	
5,700.00	5,611.18	5,745.90	5,611.18	17.03	20.31	-5.36	739.01	-497.20	1,319.16	1,289.25	29.91	44.107	
5,800.00	5,711.18	5,845.90	5,711.18	17.17	20.44	-5.36	739.01	-497.20	1,319.16	1,288.91	30.25	43.614	
5,900.00	5,811.18	5,945.90	5,811.18	17.31	20.58	-5.36	739.01	-497.20	1,319.16	1,288.57	30.59	43.128	
6,000.00	5,911.18	6,045.90	5,911.18	17.46	20.71	-5.36	739.01	-497.20	1,319.16	1,288.23	30.93	42.648	
6,100.00	6,011.18	6,145.90	6,011.18	17.60	20.85	-5.36	739.01	-497.20	1,319.16	1,287.88	31.28	42.175	
6,200.00	6,111.18	6,245.90	6,111.18	17.75	20.98	-5.36	739.01	-497.20	1,319.16	1,287.53	31.63	41.710	
6,300.00	6,211.18	6,345.90	6,211.18	17.90	21.12	-5.36	739.01	-497.20	1,319.16	1,287.18	31.98	41.251	
6,400.00	6,311.18	6,445.90	6,311.18	18.05	21.26	-5.36	739.01	-497.20	1,319.16	1,286.82	32.33	40.799	
6,500.00	6,411.18	6,545.90	6,411.18	18.20	21.40	-5.36	739.01	-497.20	1,319.16	1,286.47	32.69	40.354	
6,600.00	6,511.18	6,645.90	6,511.18	18.35	21.55	-5.36	739.01	-497.20	1,319.16	1,286.11	33.05	39.916	
6,700.00	6,611.18	6,745.90	6,611.18	18.51	21.69	-5.36	739.01	-497.20	1,319.16	1,285.75	33.41	39.485	
6,800.00	6,711.18	6,845.90	6,711.18	18.67	21.84	-5.36	739.01	-497.20	1,319.16	1,285.38	33.77	39.061	
6,900.00	6,811.18	6,945.90	6,811.18	18.82	21.99	-5.36	739.01	-497.20	1,319.16	1,285.02	34.14	38.643	
7,000.00	6,911.18	7,045.90	6,911.18	18.98	22.13	-5.36	739.01	-497.20	1,319.16	1,284.65	34.50	38.232	
7,100.00	7,011.18	7,145.90	7,011.18	19.14	22.28	-5.36	739.01	-497.20	1,319.16	1,284.28	34.87	37.827	
7,200.00	7,111.18	7,245.90	7,111.18	19.31	22.43	-5.36	739.01	-497.20	1,319.16	1,283.91	35.24	37.429	
7,300.00	7,211.18	7,345.90	7,211.18	19.47	22.59	-5.36	739.01	-497.20	1,319.16	1,283.54	35.62	37.037	
7,400.00	7,311.18	7,445.90	7,311.18	19.63	22.74	-5.36	739.01	-497.20	1,319.16	1,283.17	35.99	36.652	
7,500.00	7,411.18	7,545.90	7,411.18	19.80	22.90	-5.36	739.01	-497.20	1,319.16	1,282.79	36.37	36.273	
7,600.00	7,511.18	7,645.90	7,511.18	19.97	23.05	-5.36	739.01	-497.20	1,319.16	1,282.41	36.75	35.900	
7,700.00	7,611.18	7,745.90	7,611.18	20.13	23.21	-5.36	739.01	-497.20	1,319.16	1,282.03	37.13	35.533	
7,800.00	7,711.18	7,845.90	7,711.18	20.30	23.37	-5.36	739.01	-497.20	1,319.16	1,281.65	37.51	35.172	
7,900.00	7,811.18	7,945.90	7,811.18	20.47	23.53	-5.36	739.01	-497.20	1,319.16	1,281.27	37.89	34.817	
8,000.00	7,911.18	8,045.90	7,911.18	20.64	23.69	-5.36	739.01	-497.20	1,319.16	1,280.88	38.27	34.467	
8,100.00	8,011.18	8,145.90	8,011.18	20.82	23.85	-5.36	739.01	-497.20	1,319.16	1,280.50	38.66	34.124	
8,200.00	8,111.18	8,245.90	8,111.18	20.99	24.01	-5.36	739.01	-497.20	1,319.16	1,280.11	39.04	33.786	
8,300.00	8,211.18	8,345.90	8,211.18	21.16	24.17	-5.36	739.01	-497.20	1,319.16	1,279.72	39.43	33.453	
8,370.82	8,282.00	8,416.72	8,282.00	21.29	24.29	-5.36	739.01	-497.20	1,319.16	1,279.45	39.71	33.221	

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	35.04	16.39	11.49	20.02				
100.00	100.00	100.00	100.00	0.10	0.10	35.04	16.39	11.49	20.02	19.82	0.19	103.555	
200.00	200.00	200.00	200.00	0.32	0.32	35.04	16.39	11.49	20.02	19.37	0.64	31.139	
300.00	300.00	300.00	300.00	0.55	0.55	35.04	16.39	11.49	20.02	18.92	1.09	18.325	CC, ES
400.00	399.98	399.54	399.52	0.76	0.76	151.41	16.23	13.21	22.45	20.93	1.52	14.780	SF
450.00	449.93	449.10	449.03	0.86	0.87	157.57	16.02	15.35	25.79	24.05	1.73	14.872	
500.00	499.86	498.45	498.29	0.97	0.97	163.64	15.74	18.33	30.41	28.47	1.95	15.619	
600.00	599.73	596.53	596.00	1.19	1.21	173.33	14.94	26.76	42.47	40.08	2.39	17.774	
698.50	698.09	692.29	691.07	1.40	1.47	-143.66	13.85	38.19	57.64	54.82	2.82	20.439	
700.00	699.59	693.75	692.51	1.41	1.48	-143.62	13.83	38.39	57.89	55.06	2.83	20.478	
800.00	799.45	790.03	787.64	1.63	1.78	-140.76	12.43	53.11	75.88	72.59	3.28	23.100	
900.00	899.31	885.05	881.00	1.86	2.13	-138.28	10.75	70.76	97.02	93.26	3.76	25.836	
1,000.00	999.18	978.64	972.31	2.09	2.53	-136.18	8.82	91.14	121.30	117.06	4.24	28.641	
1,100.00	1,099.04	1,070.62	1,061.36	2.33	2.97	-134.42	6.64	114.05	148.67	143.94	4.72	31.483	
1,200.00	1,198.90	1,160.86	1,147.96	2.57	3.45	-132.93	4.24	139.29	179.06	173.84	5.21	34.339	
1,300.00	1,298.77	1,249.23	1,231.95	2.81	3.99	-131.67	1.64	166.62	212.38	206.67	5.71	37.193	
1,400.00	1,398.63	1,338.62	1,316.11	3.05	4.57	-130.58	-1.21	196.63	248.33	242.12	6.21	39.976	
1,500.00	1,498.49	1,431.65	1,403.53	3.29	5.20	-129.70	-4.23	228.31	284.81	278.08	6.73	42.347	
1,600.00	1,598.36	1,524.68	1,490.95	3.54	5.85	-129.02	-7.24	259.98	321.34	314.10	7.24	44.407	
1,700.00	1,698.22	1,617.71	1,578.37	3.78	6.50	-128.48	-10.25	291.66	357.89	350.14	7.75	46.174	
1,800.00	1,798.08	1,710.74	1,665.79	4.03	7.15	-128.04	-13.26	323.34	394.47	386.20	8.27	47.705	
1,900.00	1,897.94	1,803.77	1,753.21	4.27	7.81	-127.67	-16.27	355.01	431.07	422.28	8.79	49.042	
1,972.15	1,970.00	1,870.90	1,816.29	4.45	8.28	-127.44	-18.45	377.87	457.48	448.31	9.17	49.903	
2,000.00	1,997.80	1,896.78	1,840.60	4.52	8.47	-127.20	-19.29	386.68	467.75	458.45	9.30	50.277	
2,100.00	2,097.48	1,989.21	1,927.47	4.78	9.13	-126.54	-22.28	418.15	505.89	496.08	9.80	51.611	
2,200.00	2,196.82	2,080.80	2,013.53	5.07	9.78	-126.16	-25.24	449.33	545.94	535.62	10.31	52.934	
2,300.00	2,295.70	2,171.41	2,098.68	5.39	10.43	-125.98	-28.18	480.19	587.90	577.06	10.84	54.235	
2,400.00	2,394.00	2,260.95	2,182.82	5.74	11.07	-125.97	-31.08	510.67	631.78	620.40	11.38	55.508	
2,500.00	2,491.61	2,349.31	2,265.84	6.14	11.71	-126.08	-33.94	540.76	677.62	665.68	11.94	56.745	
2,600.00	2,588.39	2,436.37	2,347.65	6.57	12.33	-126.26	-36.76	570.40	725.43	712.91	12.52	57.941	
2,700.00	2,684.24	2,522.03	2,428.15	7.06	12.95	-126.50	-39.53	599.57	775.27	762.15	13.12	59.093	
2,800.00	2,779.04	2,606.18	2,507.23	7.59	13.55	-126.76	-42.25	628.22	827.15	813.41	13.74	60.196	
2,822.22	2,799.95	2,624.67	2,524.60	7.72	13.69	-126.82	-42.85	634.51	838.96	825.07	13.88	60.434	
2,900.00	2,873.03	2,689.23	2,585.27	8.17	14.15	-127.77	-44.94	656.50	880.56	866.10	14.46	60.884	
3,000.00	2,967.00	2,772.24	2,663.27	8.77	14.75	-128.87	-47.63	684.76	934.29	919.06	15.22	61.379	
3,100.00	3,060.97	2,855.25	2,741.28	9.38	15.35	-129.86	-50.32	713.02	988.24	972.25	15.99	61.800	
3,200.00	3,154.94	2,938.26	2,819.28	10.00	15.95	-130.74	-53.01	741.29	1,042.38	1,025.61	16.77	62.164	
3,300.00	3,248.91	3,021.27	2,897.28	10.63	16.54	-131.54	-55.69	769.55	1,096.68	1,079.13	17.55	62.482	
3,400.00	3,342.88	3,104.28	2,975.29	11.27	17.14	-132.26	-58.38	797.81	1,151.13	1,132.79	18.34	62.762	
3,500.00	3,436.84	3,187.29	3,053.29	11.91	17.74	-132.92	-61.07	826.08	1,205.69	1,186.56	19.13	63.013	
3,590.75	3,522.12	3,262.62	3,124.08	12.50	18.29	-133.48	-63.51	851.73	1,255.30	1,235.44	19.86	63.218	
3,600.00	3,530.82	3,270.31	3,131.30	12.55	18.34	-133.62	-63.76	854.34	1,260.35	1,240.41	19.94	63.203	
3,700.00	3,625.47	3,354.26	3,210.19	13.00	18.95	-135.00	-66.47	882.93	1,313.90	1,293.10	20.80	63.182	
3,800.00	3,721.19	3,449.17	3,299.40	13.43	19.62	-136.20	-69.54	915.17	1,365.35	1,343.67	21.68	62.988	
3,900.00	3,817.86	3,608.92	3,451.34	13.83	20.49	-137.35	-74.21	964.23	1,411.84	1,389.17	22.68	62.257	
4,000.00	3,915.36	3,778.85	3,615.69	14.20	21.23	-138.31	-78.28	1,007.09	1,451.27	1,427.64	23.62	61.436	
4,100.00	4,013.58	3,957.76	3,791.18	14.54	21.84	-139.11	-81.57	1,041.64	1,483.04	1,458.54	24.50	60.532	
4,200.00	4,112.39	4,144.02	3,975.79	14.83	22.32	-139.78	-83.88	1,065.95	1,506.68	1,481.40	25.29	59.586	
4,300.00	4,211.68	4,335.51	4,166.84	15.08	22.63	-140.34	-85.07	1,078.45	1,521.80	1,495.84	25.96	58.623	
4,400.00	4,311.32	4,480.01	4,311.32	15.30	22.76	-140.71	-85.21	1,079.93	1,528.99	1,502.53	26.46	57.784	
4,500.00	4,411.20	4,579.88	4,411.20	15.47	22.85	-140.87	-85.21	1,079.93	1,532.80	1,505.96	26.84	57.103	
4,590.82	4,502.00	4,670.69	4,502.00	15.60	22.93	71.40	-85.21	1,079.93	1,533.92	1,506.76	27.15	56.491	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Survey Program: 0-MWD

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,600.00	4,511.18	4,679.87	4,511.18	15.61	22.94	71.40	-85.21	1,079.93	1,533.92	1,506.74	27.18	56.436	
4,700.00	4,611.18	4,779.87	4,611.18	15.73	23.03	71.40	-85.21	1,079.93	1,533.92	1,506.46	27.46	55.866	
4,800.00	4,711.18	4,879.87	4,711.18	15.85	23.12	71.40	-85.21	1,079.93	1,533.92	1,506.18	27.74	55.299	
4,900.00	4,811.18	4,979.87	4,811.18	15.97	23.22	71.40	-85.21	1,079.93	1,533.92	1,505.89	28.02	54.734	
5,000.00	4,911.18	5,079.87	4,911.18	16.10	23.32	71.40	-85.21	1,079.93	1,533.92	1,505.60	28.32	54.173	
5,100.00	5,011.18	5,179.87	5,011.18	16.22	23.41	71.40	-85.21	1,079.93	1,533.92	1,505.31	28.61	53.615	
5,200.00	5,111.18	5,279.87	5,111.18	16.35	23.51	71.40	-85.21	1,079.93	1,533.92	1,505.01	28.91	53.061	
5,300.00	5,211.18	5,379.87	5,211.18	16.48	23.62	71.40	-85.21	1,079.93	1,533.92	1,504.71	29.21	52.512	
5,400.00	5,311.18	5,479.87	5,311.18	16.62	23.72	71.40	-85.21	1,079.93	1,533.92	1,504.40	29.52	51.967	
5,500.00	5,411.18	5,579.87	5,411.18	16.75	23.83	71.40	-85.21	1,079.93	1,533.92	1,504.09	29.83	51.428	
5,600.00	5,511.18	5,679.87	5,511.18	16.89	23.93	71.40	-85.21	1,079.93	1,533.92	1,503.78	30.14	50.893	
5,700.00	5,611.18	5,779.87	5,611.18	17.03	24.04	71.40	-85.21	1,079.93	1,533.92	1,503.46	30.46	50.364	
5,800.00	5,711.18	5,879.87	5,711.18	17.17	24.15	71.40	-85.21	1,079.93	1,533.92	1,503.14	30.78	49.840	
5,900.00	5,811.18	5,979.87	5,811.18	17.31	24.26	71.40	-85.21	1,079.93	1,533.92	1,502.82	31.10	49.322	
6,000.00	5,911.18	6,079.87	5,911.18	17.46	24.38	71.40	-85.21	1,079.93	1,533.92	1,502.49	31.43	48.810	
6,100.00	6,011.18	6,179.87	6,011.18	17.60	24.49	71.40	-85.21	1,079.93	1,533.92	1,502.16	31.76	48.304	
6,200.00	6,111.18	6,279.87	6,111.18	17.75	24.61	71.40	-85.21	1,079.93	1,533.92	1,501.83	32.09	47.804	
6,300.00	6,211.18	6,379.87	6,211.18	17.90	24.73	71.40	-85.21	1,079.93	1,533.92	1,501.49	32.42	47.310	
6,400.00	6,311.18	6,479.87	6,311.18	18.05	24.85	71.40	-85.21	1,079.93	1,533.92	1,501.16	32.76	46.822	
6,500.00	6,411.18	6,579.87	6,411.18	18.20	24.97	71.40	-85.21	1,079.93	1,533.92	1,500.82	33.10	46.340	
6,600.00	6,511.18	6,679.87	6,511.18	18.35	25.09	71.40	-85.21	1,079.93	1,533.92	1,500.47	33.44	45.865	
6,700.00	6,611.18	6,779.87	6,611.18	18.51	25.21	71.40	-85.21	1,079.93	1,533.92	1,500.13	33.79	45.396	
6,800.00	6,711.18	6,879.87	6,711.18	18.67	25.34	71.40	-85.21	1,079.93	1,533.92	1,499.78	34.14	44.933	
6,900.00	6,811.18	6,979.87	6,811.18	18.82	25.46	71.40	-85.21	1,079.93	1,533.92	1,499.43	34.49	44.477	
7,000.00	6,911.18	7,079.87	6,911.18	18.98	25.59	71.40	-85.21	1,079.93	1,533.92	1,499.08	34.84	44.027	
7,100.00	7,011.18	7,179.87	7,011.18	19.14	25.72	71.40	-85.21	1,079.93	1,533.92	1,498.72	35.20	43.583	
7,200.00	7,111.18	7,279.87	7,111.18	19.31	25.85	71.40	-85.21	1,079.93	1,533.92	1,498.37	35.55	43.146	
7,300.00	7,211.18	7,379.87	7,211.18	19.47	25.98	71.40	-85.21	1,079.93	1,533.92	1,498.01	35.91	42.714	
7,400.00	7,311.18	7,479.87	7,311.18	19.63	26.12	71.40	-85.21	1,079.93	1,533.92	1,497.65	36.27	42.289	
7,500.00	7,411.18	7,579.87	7,411.18	19.80	26.25	71.40	-85.21	1,079.93	1,533.92	1,497.28	36.64	41.870	
7,600.00	7,511.18	7,679.87	7,511.18	19.97	26.39	71.40	-85.21	1,079.93	1,533.92	1,496.92	37.00	41.457	
7,700.00	7,611.18	7,779.87	7,611.18	20.13	26.52	71.40	-85.21	1,079.93	1,533.92	1,496.55	37.37	41.051	
7,800.00	7,711.18	7,879.87	7,711.18	20.30	26.66	71.40	-85.21	1,079.93	1,533.92	1,496.18	37.74	40.650	
7,900.00	7,811.18	7,979.87	7,811.18	20.47	26.80	71.40	-85.21	1,079.93	1,533.92	1,495.81	38.11	40.255	
8,000.00	7,911.18	8,079.87	7,911.18	20.64	26.94	71.40	-85.21	1,079.93	1,533.92	1,495.44	38.48	39.866	
8,100.00	8,011.18	8,179.87	8,011.18	20.82	27.08	71.40	-85.21	1,079.93	1,533.92	1,495.07	38.85	39.482	
8,200.00	8,111.18	8,279.87	8,111.18	20.99	27.22	71.40	-85.21	1,079.93	1,533.92	1,494.69	39.23	39.105	
8,300.00	8,211.18	8,379.87	8,211.18	21.16	27.37	71.40	-85.21	1,079.93	1,533.92	1,494.32	39.60	38.733	
8,332.67	8,243.85	8,412.53	8,243.85	21.22	27.42	71.40	-85.21	1,079.93	1,533.92	1,494.19	39.73	38.613	
8,370.82	8,282.00	8,423.69	8,255.00	21.29	27.43	71.40	-85.21	1,079.93	1,534.16	1,494.34	39.82	38.527	

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8K4CS - BONANZA 1023-8K4CS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	35.09	8.38	5.89	10.24				
100.00	100.00	100.00	100.00	0.10	0.10	35.09	8.38	5.89	10.24	10.04	0.19	52.965	
200.00	200.00	200.00	200.00	0.32	0.32	35.09	8.38	5.89	10.24	9.60	0.64	15.927	
300.00	300.00	300.00	300.00	0.55	0.55	35.09	8.38	5.89	10.24	9.15	1.09	9.372	CC, ES
400.00	399.98	399.84	399.82	0.76	0.75	157.92	7.60	7.44	12.23	10.72	1.51	8.081	SF
450.00	449.93	449.58	449.51	0.86	0.86	168.58	6.63	9.38	15.31	13.59	1.73	8.871	
500.00	499.86	499.12	498.96	0.97	0.96	177.57	5.28	12.07	19.73	17.80	1.94	10.192	
600.00	599.73	597.65	597.11	1.19	1.20	-170.06	1.46	19.70	31.36	28.98	2.38	13.193	
698.50	698.09	693.96	692.72	1.40	1.46	-126.41	-3.73	30.07	45.53	42.72	2.81	16.212	
700.00	699.59	695.43	694.18	1.41	1.47	-126.35	-3.82	30.25	45.76	42.94	2.82	16.253	
800.00	799.45	792.42	790.00	1.63	1.78	-122.99	-10.52	43.64	62.22	58.94	3.28	18.954	
900.00	899.31	888.25	884.12	1.86	2.13	-120.06	-18.56	59.70	81.81	78.05	3.77	21.729	
1,000.00	999.18	982.72	976.28	2.09	2.54	-117.58	-27.86	78.29	104.54	100.28	4.26	24.550	
1,100.00	1,099.04	1,075.68	1,066.24	2.33	2.99	-115.50	-38.34	99.22	130.37	125.61	4.76	27.395	
1,200.00	1,198.90	1,166.96	1,153.78	2.57	3.49	-113.77	-49.89	122.30	159.25	153.99	5.27	30.244	
1,300.00	1,298.77	1,256.42	1,238.75	2.81	4.04	-112.30	-62.42	147.33	191.11	185.34	5.78	33.086	
1,400.00	1,398.63	1,347.30	1,324.26	3.05	4.64	-111.05	-76.19	174.85	225.52	219.22	6.29	35.834	
1,500.00	1,498.49	1,440.96	1,412.27	3.29	5.28	-110.07	-90.53	203.49	260.34	253.52	6.82	38.180	
1,600.00	1,598.36	1,534.62	1,500.29	3.54	5.94	-109.32	-104.87	232.14	295.21	287.87	7.34	40.205	
1,700.00	1,698.22	1,628.28	1,588.30	3.78	6.59	-108.73	-119.21	260.79	330.11	322.24	7.87	41.942	
1,800.00	1,798.08	1,721.94	1,676.31	4.03	7.26	-108.26	-133.55	289.43	365.04	356.64	8.40	43.448	
1,900.00	1,897.94	1,815.61	1,764.33	4.27	7.92	-107.86	-147.89	318.08	399.99	391.06	8.94	44.764	
1,972.15	1,970.00	1,883.19	1,827.83	4.45	8.41	-107.62	-158.23	338.75	425.22	415.90	9.32	45.613	
2,000.00	1,997.80	1,909.26	1,852.33	4.52	8.59	-107.35	-162.22	346.72	435.00	425.53	9.46	45.964	
2,100.00	2,097.48	2,002.65	1,940.09	4.78	9.26	-106.67	-176.52	375.29	470.72	460.73	9.99	47.111	
2,200.00	2,196.82	2,095.61	2,027.45	5.07	9.93	-106.37	-190.75	403.72	507.39	496.83	10.55	48.090	
2,300.00	2,295.70	2,188.02	2,114.28	5.39	10.59	-106.36	-204.90	431.98	545.02	533.88	11.14	48.912	
2,400.00	2,394.00	2,279.77	2,200.50	5.74	11.25	-106.57	-218.94	460.04	583.69	571.92	11.77	49.591	
2,500.00	2,491.61	2,370.74	2,285.98	6.14	11.91	-106.96	-232.87	487.86	623.46	611.03	12.43	50.138	
2,600.00	2,588.39	2,460.83	2,370.64	6.57	12.56	-107.48	-246.66	515.42	664.44	651.31	13.14	50.569	
2,700.00	2,684.24	2,549.93	2,454.36	7.06	13.21	-108.09	-260.30	542.67	706.74	692.85	13.89	50.898	
2,800.00	2,779.04	2,637.92	2,537.05	7.59	13.84	-108.76	-273.77	569.58	750.45	735.77	14.67	51.144	
2,822.22	2,799.95	2,657.31	2,555.27	7.72	13.98	-108.91	-276.74	575.51	760.36	745.51	14.85	51.190	
2,900.00	2,873.03	2,725.08	2,618.95	8.17	14.47	-110.14	-287.11	596.24	795.35	779.79	15.56	51.108	
3,000.00	2,967.00	2,812.21	2,700.83	8.77	15.10	-111.57	-300.45	622.89	840.75	824.26	16.49	50.989	
3,100.00	3,060.97	2,899.35	2,782.71	9.38	15.74	-112.86	-313.79	649.54	886.53	869.10	17.43	50.865	
3,200.00	3,154.94	2,986.48	2,864.59	10.00	16.37	-114.03	-327.13	676.19	932.65	914.27	18.38	50.744	
3,300.00	3,248.91	3,073.61	2,946.46	10.63	17.00	-115.09	-340.47	702.83	979.06	959.72	19.34	50.629	
3,400.00	3,342.88	3,160.74	3,028.34	11.27	17.63	-116.06	-353.81	729.48	1,025.72	1,005.41	20.30	50.524	
3,500.00	3,436.84	3,247.87	3,110.22	11.91	18.26	-116.95	-367.15	756.13	1,072.59	1,051.32	21.27	50.427	
3,590.75	3,522.12	3,326.95	3,184.52	12.50	18.84	-117.69	-379.25	780.32	1,115.28	1,093.13	22.15	50.348	
3,600.00	3,530.82	3,335.01	3,192.10	12.55	18.90	-117.85	-380.49	782.78	1,119.64	1,097.39	22.25	50.321	
3,700.00	3,625.47	3,422.85	3,274.64	13.00	19.53	-119.42	-393.93	809.65	1,165.98	1,142.75	23.23	50.197	
3,800.00	3,721.19	3,511.81	3,358.24	13.43	20.18	-120.73	-407.55	836.86	1,210.89	1,186.69	24.19	50.049	
3,900.00	3,817.86	3,601.78	3,442.78	13.83	20.83	-121.82	-421.32	864.37	1,254.23	1,229.10	25.14	49.897	
4,000.00	3,915.36	3,692.64	3,528.16	14.20	21.49	-122.70	-435.23	892.16	1,295.93	1,269.88	26.05	49.756	
4,100.00	4,013.58	3,784.30	3,614.29	14.54	22.16	-123.39	-449.26	920.20	1,335.90	1,308.98	26.91	49.635	
4,200.00	4,112.39	3,876.63	3,701.05	14.83	22.83	-123.90	-463.40	948.43	1,374.11	1,346.37	27.74	49.542	
4,300.00	4,211.68	3,969.52	3,788.34	15.08	23.51	-124.26	-477.62	976.85	1,410.53	1,382.03	28.51	49.483	
4,400.00	4,311.32	4,062.87	3,876.06	15.30	24.18	-124.48	-491.91	1,005.40	1,445.17	1,415.95	29.22	49.461	
4,500.00	4,411.20	4,179.20	3,985.52	15.47	24.98	-124.44	-509.54	1,040.61	1,477.81	1,447.89	29.93	49.381	
4,590.82	4,502.00	4,339.89	4,138.84	15.60	25.80	88.30	-531.04	1,083.58	1,502.67	1,472.11	30.56	49.171	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8K4CS - BONANZA 1023-8K4CS - PLAN #1 5-7-10 RHS

Offset Site Error: 0.00 ft

Survey Program: 0-MWD

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,600.00	4,511.18	4,356.46	4,154.80	15.61	25.87	88.38	-533.04	1,087.57	1,504.87	1,474.26	30.61	49.165	
4,700.00	4,611.18	4,540.12	4,333.25	15.73	26.62	89.16	-552.40	1,126.25	1,525.84	1,494.73	31.11	49.042	
4,800.00	4,711.18	4,728.82	4,519.11	15.85	27.20	89.72	-566.92	1,155.27	1,541.20	1,509.63	31.58	48.809	
4,900.00	4,811.18	4,921.08	4,710.25	15.97	27.60	90.06	-576.06	1,173.51	1,550.70	1,518.71	31.99	48.470	
5,000.00	4,911.18	5,115.23	4,904.22	16.10	27.84	90.19	-579.43	1,180.26	1,554.18	1,521.82	32.36	48.022	
5,100.00	5,011.18	5,222.19	5,011.18	16.22	27.92	90.19	-579.45	1,180.29	1,554.20	1,521.58	32.63	47.637	
5,200.00	5,111.18	5,322.19	5,111.18	16.35	28.00	90.19	-579.45	1,180.29	1,554.20	1,521.32	32.88	47.269	
5,300.00	5,211.18	5,422.19	5,211.18	16.48	28.08	90.19	-579.45	1,180.29	1,554.20	1,521.06	33.14	46.901	
5,400.00	5,311.18	5,522.19	5,311.18	16.62	28.17	90.19	-579.45	1,180.29	1,554.20	1,520.80	33.40	46.532	
5,500.00	5,411.18	5,622.19	5,411.18	16.75	28.25	90.19	-579.45	1,180.29	1,554.20	1,520.53	33.67	46.164	
5,600.00	5,511.18	5,722.19	5,511.18	16.89	28.34	90.19	-579.45	1,180.29	1,554.20	1,520.26	33.94	45.797	
5,700.00	5,611.18	5,822.19	5,611.18	17.03	28.42	90.19	-579.45	1,180.29	1,554.20	1,519.99	34.21	45.430	
5,800.00	5,711.18	5,922.19	5,711.18	17.17	28.51	90.19	-579.45	1,180.29	1,554.20	1,519.71	34.49	45.064	
5,900.00	5,811.18	6,022.19	5,811.18	17.31	28.60	90.19	-579.45	1,180.29	1,554.20	1,519.43	34.77	44.700	
6,000.00	5,911.18	6,122.19	5,911.18	17.46	28.70	90.19	-579.45	1,180.29	1,554.20	1,519.15	35.05	44.337	
6,100.00	6,011.18	6,222.19	6,011.18	17.60	28.79	90.19	-579.45	1,180.29	1,554.20	1,518.86	35.34	43.976	
6,200.00	6,111.18	6,322.19	6,111.18	17.75	28.89	90.19	-579.45	1,180.29	1,554.20	1,518.57	35.63	43.616	
6,300.00	6,211.18	6,422.19	6,211.18	17.90	28.98	90.19	-579.45	1,180.29	1,554.20	1,518.27	35.93	43.259	
6,400.00	6,311.18	6,522.19	6,311.18	18.05	29.08	90.19	-579.45	1,180.29	1,554.20	1,517.98	36.23	42.903	
6,500.00	6,411.18	6,622.19	6,411.18	18.20	29.18	90.19	-579.45	1,180.29	1,554.20	1,517.67	36.53	42.550	
6,600.00	6,511.18	6,722.19	6,511.18	18.35	29.28	90.19	-579.45	1,180.29	1,554.20	1,517.37	36.83	42.199	
6,700.00	6,611.18	6,822.19	6,611.18	18.51	29.38	90.19	-579.45	1,180.29	1,554.20	1,517.06	37.14	41.850	
6,800.00	6,711.18	6,922.19	6,711.18	18.67	29.49	90.19	-579.45	1,180.29	1,554.20	1,516.75	37.45	41.504	
6,900.00	6,811.18	7,022.19	6,811.18	18.82	29.59	90.19	-579.45	1,180.29	1,554.20	1,516.44	37.76	41.161	
7,000.00	6,911.18	7,122.19	6,911.18	18.98	29.70	90.19	-579.45	1,180.29	1,554.20	1,516.13	38.07	40.820	
7,100.00	7,011.18	7,222.19	7,011.18	19.14	29.80	90.19	-579.45	1,180.29	1,554.20	1,515.81	38.39	40.482	
7,200.00	7,111.18	7,322.19	7,111.18	19.31	29.91	90.19	-579.45	1,180.29	1,554.20	1,515.49	38.71	40.147	
7,300.00	7,211.18	7,422.19	7,211.18	19.47	30.02	90.19	-579.45	1,180.29	1,554.20	1,515.17	39.04	39.815	
7,400.00	7,311.18	7,522.19	7,311.18	19.63	30.14	90.19	-579.45	1,180.29	1,554.20	1,514.84	39.36	39.486	
7,500.00	7,411.18	7,622.19	7,411.18	19.80	30.25	90.19	-579.45	1,180.29	1,554.20	1,514.51	39.69	39.160	
7,600.00	7,511.18	7,722.19	7,511.18	19.97	30.36	90.19	-579.45	1,180.29	1,554.20	1,514.18	40.02	38.837	
7,700.00	7,611.18	7,822.19	7,611.18	20.13	30.48	90.19	-579.45	1,180.29	1,554.20	1,513.85	40.35	38.517	
7,800.00	7,711.18	7,922.19	7,711.18	20.30	30.59	90.19	-579.45	1,180.29	1,554.20	1,513.52	40.69	38.200	
7,900.00	7,811.18	8,022.19	7,811.18	20.47	30.71	90.19	-579.45	1,180.29	1,554.20	1,513.18	41.02	37.886	
8,000.00	7,911.18	8,122.19	7,911.18	20.64	30.83	90.19	-579.45	1,180.29	1,554.20	1,512.84	41.36	37.576	
8,100.00	8,011.18	8,222.19	8,011.18	20.82	30.95	90.19	-579.45	1,180.29	1,554.20	1,512.50	41.70	37.269	
8,200.00	8,111.18	8,322.19	8,111.18	20.99	31.07	90.19	-579.45	1,180.29	1,554.20	1,512.16	42.05	36.965	
8,300.00	8,211.18	8,422.19	8,211.18	21.16	31.19	90.19	-579.45	1,180.29	1,554.20	1,511.81	42.39	36.664	
8,300.62	8,211.80	8,422.81	8,211.80	21.16	31.19	90.19	-579.45	1,180.29	1,554.20	1,511.81	42.39	36.662	
8,370.82	8,282.00	8,446.01	8,235.00	21.29	31.22	90.19	-579.45	1,180.29	1,554.91	1,512.35	42.56	36.536	

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - Bonanza 1023-8L EXISTING - Bonanza 1023-8L EXISITNG - Bonanza 1023-

Offset Site Error: 0.00 ft

Survey Program: 100-NS-GYRO-MS

Offset Well Error: 0.00 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-141.24	-26.88	-21.58	37.21				
100.00	100.00	86.09	86.09	0.10	0.11	-141.42	-26.86	-21.42	34.35	34.14	0.21	162.852	
200.00	200.00	186.13	186.13	0.32	0.36	-141.85	-26.75	-21.01	34.01	33.33	0.68	50.004	
300.00	300.00	286.10	286.10	0.55	0.62	-142.26	-26.62	-20.60	33.66	32.49	1.17	28.853	
400.00	399.98	386.21	386.21	0.76	0.88	-34.58	-26.45	-20.05	31.74	30.10	1.64	19.371	
450.00	449.93	436.14	436.14	0.86	1.01	-37.40	-26.27	-19.66	29.60	27.73	1.87	15.821	
500.00	499.86	486.02	486.02	0.97	1.14	-41.33	-26.14	-19.25	27.26	25.15	2.11	12.937	
600.00	599.73	585.80	585.79	1.19	1.41	-51.24	-26.01	-18.55	23.22	20.63	2.59	8.961	
698.50	698.09	684.12	684.10	1.40	1.67	-22.91	-25.94	-18.13	19.00	15.94	3.06	6.211	
700.00	699.59	685.62	685.60	1.41	1.67	-23.02	-25.94	-18.12	18.92	15.86	3.07	6.173	
800.00	799.45	785.46	785.44	1.63	1.93	-33.02	-25.97	-17.69	14.28	10.73	3.54	4.027	
900.00	899.31	885.30	885.28	1.86	2.18	-51.08	-26.08	-17.27	10.52	6.49	4.03	2.611	
1,000.00	999.18	985.16	985.14	2.09	2.39	-80.49	-26.35	-16.96	8.71	4.23	4.48	1.944	
1,016.11	1,015.27	1,001.25	1,001.24	2.13	2.42	-85.82	-26.41	-16.93	8.67	4.12	4.55	1.906	CC, ES, SF
1,100.00	1,099.04	1,085.03	1,085.01	2.33	2.58	-111.71	-26.73	-16.76	9.65	4.77	4.88	1.979	
1,200.00	1,198.90	1,184.89	1,184.87	2.57	2.78	-131.89	-27.25	-16.48	12.74	7.47	5.27	2.416	
1,300.00	1,298.77	1,284.77	1,284.75	2.81	2.98	-141.88	-28.18	-16.04	16.77	11.08	5.69	2.948	
1,400.00	1,398.63	1,384.62	1,384.59	3.05	3.20	-146.72	-29.47	-15.36	21.18	15.05	6.13	3.456	
1,500.00	1,498.49	1,484.49	1,484.45	3.29	3.43	-149.27	-30.94	-14.44	25.80	19.22	6.58	3.922	
1,600.00	1,598.36	1,584.17	1,584.11	3.54	3.68	-150.56	-32.49	-13.13	30.78	23.73	7.05	4.367	
1,700.00	1,698.22	1,684.12	1,684.02	3.78	3.93	-150.70	-34.31	-11.28	36.11	28.58	7.53	4.796	
1,800.00	1,798.08	1,784.14	1,784.01	4.03	4.17	-150.67	-36.41	-9.73	41.04	33.04	8.01	5.126	
1,900.00	1,897.94	1,884.16	1,883.99	4.27	4.41	-150.61	-38.69	-8.46	45.64	37.16	8.48	5.384	
1,972.15	1,970.00	1,956.17	1,955.97	4.45	4.59	-150.57	-40.37	-7.60	48.89	40.07	8.82	5.544	
2,000.00	1,997.80	1,983.93	1,983.72	4.52	4.66	-150.62	-40.99	-7.23	50.30	41.36	8.95	5.622	
2,100.00	2,097.48	2,083.78	2,083.54	4.78	4.90	-151.84	-43.24	-5.91	57.34	47.93	9.41	6.093	
2,200.00	2,196.82	2,183.02	2,182.75	5.07	5.15	-154.11	-45.49	-4.63	67.48	57.61	9.87	6.839	
2,300.00	2,295.70	2,282.08	2,281.78	5.39	5.40	-156.76	-47.63	-3.16	81.09	70.77	10.32	7.860	
2,400.00	2,394.00	2,381.42	2,381.08	5.74	5.64	-159.43	-49.95	-2.12	97.60	86.86	10.74	9.084	
2,500.00	2,491.61	2,479.24	2,478.86	6.14	5.87	-161.90	-52.45	-1.62	117.00	105.85	11.15	10.494	
2,600.00	2,588.39	2,576.49	2,576.08	6.57	6.10	-163.99	-54.89	-0.90	140.03	128.48	11.55	12.125	
2,700.00	2,684.24	2,673.20	2,672.76	7.06	6.32	-165.80	-57.37	-0.38	166.32	154.38	11.94	13.935	
2,800.00	2,779.04	2,768.78	2,768.31	7.59	6.54	-167.34	-59.85	-0.08	195.81	183.51	12.31	15.913	
2,822.22	2,799.95	2,789.85	2,789.37	7.72	6.59	-167.65	-60.40	-0.02	202.82	190.44	12.39	16.375	
2,900.00	2,873.03	2,863.71	2,863.20	8.17	6.76	-168.67	-62.41	0.21	227.63	214.87	12.76	17.837	
3,000.00	2,967.00	2,958.30	2,957.75	8.77	6.99	-169.63	-65.23	0.67	259.53	246.27	13.26	19.578	
3,100.00	3,060.97	3,053.27	3,052.68	9.38	7.22	-170.35	-68.10	1.26	291.53	277.77	13.76	21.188	
3,200.00	3,154.94	3,148.97	3,148.32	10.00	7.45	-170.93	-71.19	1.71	323.33	309.06	14.27	22.659	
3,300.00	3,248.91	3,244.32	3,243.62	10.63	7.68	-171.40	-74.47	2.01	354.89	340.11	14.78	24.009	
3,400.00	3,342.88	3,339.11	3,338.34	11.27	7.90	-171.79	-77.77	2.30	386.45	371.16	15.30	25.265	
3,500.00	3,436.84	3,433.55	3,432.73	11.91	8.13	-172.11	-81.05	2.64	418.06	402.24	15.82	26.434	
3,590.75	3,522.12	3,518.62	3,517.75	12.50	8.35	-172.35	-83.96	3.14	446.91	430.62	16.29	27.429	
3,600.00	3,530.82	3,527.29	3,526.41	12.55	8.37	-172.38	-84.25	3.20	449.85	433.50	16.35	27.509	
3,700.00	3,625.47	3,621.93	3,621.00	13.00	8.61	-172.63	-87.44	4.06	479.93	462.96	16.96	28.292	
3,800.00	3,721.19	3,718.98	3,717.99	13.43	8.85	-172.80	-90.71	4.90	506.66	489.10	17.57	28.845	
3,900.00	3,817.86	3,816.83	3,815.78	13.83	9.10	-172.91	-94.06	5.59	529.91	511.76	18.15	29.202	
4,000.00	3,915.36	3,914.72	3,913.61	14.20	9.35	-172.97	-97.41	6.23	549.74	531.04	18.70	29.393	
4,100.00	4,013.58	4,013.21	4,012.04	14.54	9.60	-172.97	-100.78	6.91	566.19	546.95	19.24	29.435	
4,200.00	4,112.39	4,112.07	4,110.84	14.83	9.85	-172.92	-104.15	7.63	579.25	559.51	19.74	29.340	
4,300.00	4,211.68	4,211.28	4,209.99	15.08	10.11	-172.81	-107.52	8.42	588.92	568.69	20.22	29.122	
4,400.00	4,311.32	4,310.48	4,309.13	15.30	10.36	-172.66	-110.87	9.30	595.21	574.54	20.67	28.791	
4,500.00	4,411.20	4,409.91	4,408.50	15.47	10.62	-172.45	-114.19	10.29	598.16	577.06	21.09	28.356	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Offset Design Bonanza 1023-8L PAD - Bonanza 1023-8L EXISTING - Bonanza 1023-8L EXISITNG - Bonanza 1023-

Offset Site Error: 0.00 ft

Offset Well Error: 0.00 ft

Survey Program: 100-NS-GYRO-MS

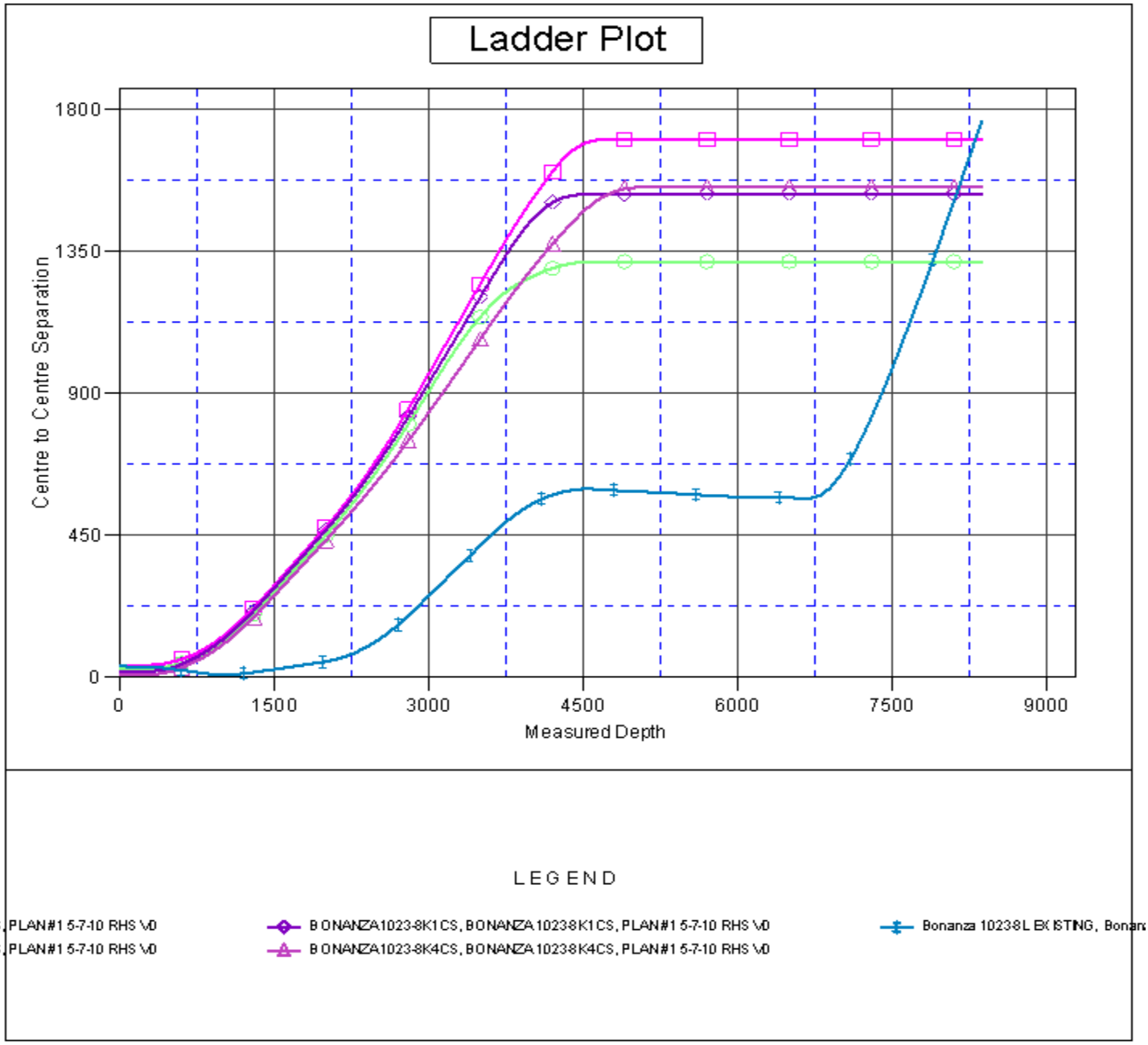
Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,590.82	4,502.00	4,500.99	4,499.52	15.60	10.86	40.10	-117.14	11.11	597.85	576.39	21.46	27.860	
4,600.00	4,511.18	4,510.20	4,508.73	15.61	10.88	40.12	-117.44	11.18	597.67	576.17	21.50	27.799	
4,700.00	4,611.18	4,610.39	4,608.87	15.73	11.14	40.36	-120.52	11.79	595.72	573.78	21.94	27.157	
4,800.00	4,711.18	4,709.85	4,708.29	15.85	11.40	40.59	-123.50	12.35	593.80	571.43	22.37	26.542	
4,900.00	4,811.18	4,809.25	4,807.64	15.97	11.65	40.82	-126.46	13.02	591.98	569.17	22.81	25.952	
5,000.00	4,911.18	4,908.01	4,906.35	16.10	11.91	41.07	-129.35	13.85	590.32	567.07	23.25	25.387	
5,100.00	5,011.18	5,006.97	5,005.27	16.22	12.17	41.32	-132.18	14.90	588.87	565.17	23.70	24.849	
5,200.00	5,111.18	5,108.67	5,106.92	16.35	12.44	41.58	-135.11	15.89	587.36	563.21	24.15	24.320	
5,300.00	5,211.18	5,210.18	5,208.39	16.48	12.70	41.83	-138.13	16.53	585.56	560.95	24.60	23.799	
5,400.00	5,311.18	5,310.07	5,308.22	16.62	12.96	42.08	-141.24	17.16	583.65	558.60	25.05	23.296	
5,500.00	5,411.18	5,410.06	5,408.15	16.75	13.22	42.36	-144.54	17.99	581.78	556.27	25.51	22.810	
5,600.00	5,511.18	5,511.16	5,509.19	16.89	13.48	42.64	-147.97	18.78	579.80	553.84	25.96	22.333	
5,700.00	5,611.18	5,611.76	5,609.73	17.03	13.74	42.91	-151.43	19.32	577.64	551.22	26.42	21.866	
5,800.00	5,711.18	5,708.76	5,706.68	17.17	14.00	43.16	-154.49	19.89	575.73	548.86	26.87	21.430	
5,900.00	5,811.18	5,805.92	5,803.80	17.31	14.25	43.40	-157.09	20.67	574.34	547.02	27.32	21.026	
6,000.00	5,911.18	5,905.02	5,902.88	17.46	14.51	43.61	-159.30	21.47	573.26	545.49	27.77	20.641	
6,100.00	6,011.18	6,004.17	6,002.01	17.60	14.77	43.78	-161.13	22.07	572.35	544.12	28.23	20.274	
6,200.00	6,111.18	6,103.77	6,101.59	17.75	15.04	43.93	-162.78	22.62	571.54	542.85	28.69	19.922	
6,300.00	6,211.18	6,203.34	6,201.14	17.90	15.30	44.09	-164.40	23.25	570.81	541.66	29.15	19.582	
6,400.00	6,311.18	6,302.09	6,299.88	18.05	15.56	44.25	-165.94	24.00	570.22	540.61	29.61	19.259	
6,500.00	6,411.18	6,400.88	6,398.66	18.20	15.82	44.42	-167.36	24.95	569.86	539.79	30.07	18.952	
6,600.00	6,511.18	6,503.52	6,501.27	18.35	16.09	44.62	-169.08	25.98	569.37	538.83	30.54	18.643	
6,700.00	6,611.18	6,600.00	6,597.73	18.51	16.35	44.83	-171.22	26.85	568.46	537.46	31.00	18.339	
6,700.55	6,611.73	6,600.00	6,597.73	18.51	16.35	44.83	-171.22	26.85	568.46	537.46	31.00	18.338	
6,800.00	6,711.18	6,600.00	6,597.73	18.67	16.35	44.83	-171.22	26.85	577.09	545.90	31.19	18.500	
6,900.00	6,811.18	6,600.00	6,597.73	18.82	16.35	44.83	-171.22	26.85	602.43	571.04	31.39	19.192	
7,000.00	6,911.18	6,600.00	6,597.73	18.98	16.35	44.83	-171.22	26.85	642.51	610.92	31.59	20.340	
7,100.00	7,011.18	6,600.00	6,597.73	19.14	16.35	44.83	-171.22	26.85	694.77	662.98	31.79	21.857	
7,200.00	7,111.18	6,600.00	6,597.73	19.31	16.35	44.83	-171.22	26.85	756.70	724.71	31.99	23.657	
7,300.00	7,211.18	6,600.00	6,597.73	19.47	16.35	44.83	-171.22	26.85	826.13	793.94	32.19	25.667	
7,400.00	7,311.18	6,600.00	6,597.73	19.63	16.35	44.83	-171.22	26.85	901.32	868.93	32.39	27.829	
7,500.00	7,411.18	6,600.00	6,597.73	19.80	16.35	44.83	-171.22	26.85	980.95	948.36	32.59	30.101	
7,600.00	7,511.18	6,600.00	6,597.73	19.97	16.35	44.83	-171.22	26.85	1,064.03	1,031.24	32.79	32.449	
7,700.00	7,611.18	6,600.00	6,597.73	20.13	16.35	44.83	-171.22	26.85	1,149.80	1,116.81	32.99	34.850	
7,800.00	7,711.18	6,600.00	6,597.73	20.30	16.35	44.83	-171.22	26.85	1,237.71	1,204.52	33.20	37.285	
7,900.00	7,811.18	6,600.00	6,597.73	20.47	16.35	44.83	-171.22	26.85	1,327.34	1,293.94	33.40	39.741	
8,000.00	7,911.18	6,600.00	6,597.73	20.64	16.35	44.83	-171.22	26.85	1,418.35	1,384.75	33.60	42.208	
8,100.00	8,011.18	6,600.00	6,597.73	20.82	16.35	44.83	-171.22	26.85	1,510.50	1,476.69	33.81	44.678	
8,200.00	8,111.18	6,600.00	6,597.73	20.99	16.35	44.83	-171.22	26.85	1,603.59	1,569.58	34.01	47.145	
8,300.00	8,211.18	6,600.00	6,597.73	21.16	16.35	44.83	-171.22	26.85	1,697.47	1,663.25	34.22	49.605	
8,370.82	8,282.00	6,600.00	6,597.73	21.29	16.35	44.83	-171.22	26.85	1,764.35	1,729.99	34.37	51.341	

Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5313.00ft (Original Well Ele\Coordinates are relative to: BONANZA 1023-8L3DS
Offset Depths are relative to Offset Datum
Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
Central Meridian is 111° 0' 0.000 W °
Grid Convergence at Surface is: 1.06°

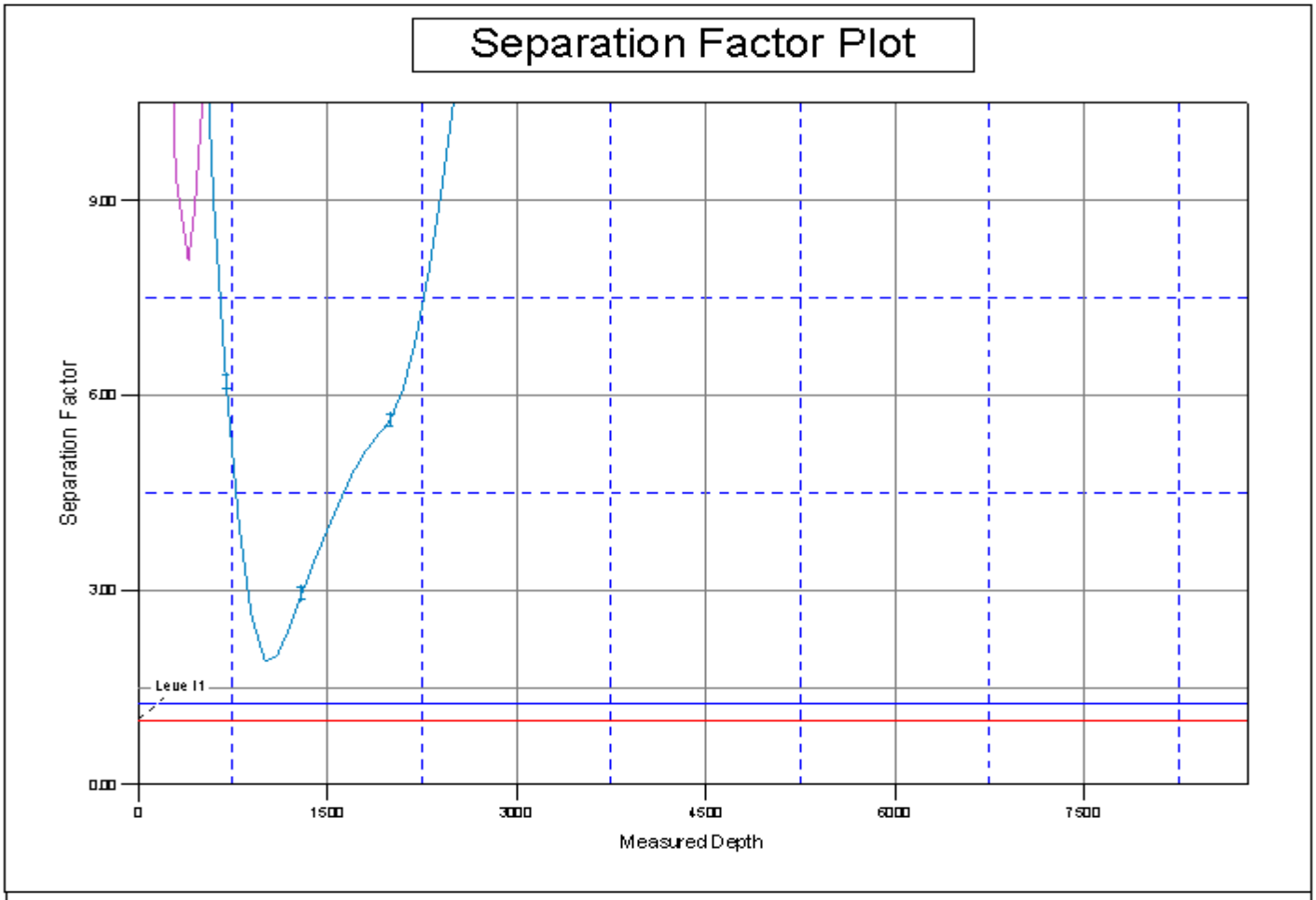


Weatherford International Ltd.

Anticollision Report

Company:	ANADARKO PETROLEUM CORP.	**Local Co-ordinate Reference:**	Well BONANZA 1023-8L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	**TVD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	**MD Reference:**	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	**North Reference:**	True
Reference Well:	BONANZA 1023-8L3DS	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00ft	**Output errors are at**	2.00 sigma
Reference Wellbore	BONANZA 1023-8L3DS	**Database:**	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5313.00ft (Original Well Ele\Coordinates are relative to: BONANZA 1023-8L3DS
Offset Depths are relative to Offset Datum
Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
Central Meridian is 111° 0' 0.000 W °
Grid Convergence at Surface is: 1.06°



LEGEND

DS, PLAN#1 5-7-10 RHS \v0
DS, PLAN#1 5-7-10 RHS \v0
BONANZA1023-8K1CS, BONANZA1023-8K1CS, PLAN#1 5-7-10 RHS \v0
BONANZA1023-8K4CS, BONANZA1023-8K4CS, PLAN#1 5-7-10 RHS \v0
Bonanza 1023-8L EXISTING, Bonan

Bonanza 1023-8L3DS

Pad: Bonanza 1023-8L
Surface: 2,216’ FSL 945’ FWL (NW/4SW/4)
BHL: 1,644’ FSL 570’ FWL (NW/4SW/4)
Sec. 8 T10S R23E

Uintah, Utah
Mineral Lease: UTU 37355

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

Formation	Depth	Resource
Uinta	0 – Surface	
Green River	1,103’	
Birds Nest	1,360’	Water
Mahogany	1,722’	Water
Wasatch	4,064’	Gas
Mesaverde	6,163’	Gas
MVU2	7,085’	Gas
MVL1	7,652’	Gas
TVD	8,282’	
TD	8,371’	

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 8,282' TVD, approximately equals 5,074 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,252 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.

'APIWellNo:43047511530000'

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

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

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

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

10. Other Information:

Please refer to the attached Drilling Program.

'APIWellNo:43047511530000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	July 1, 2010
WELL NAME	**Bonanza 1023-8L3DS**	TD	8,282' TVD 8,371' MD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	FINISHED ELEVATION 5,299'
SURFACE LOCATION	NW/4 SW/4 2,216' FSL 945' FWL Sec 8 T 10S R 23E		
	Latitude: 39.962306 Longitude: -109.356740 NAD 83		
BTM HOLE LOCATION	NW/4 SW/4 1,644' FSL 570' FWL Sec 8 T 10S R 23E		
	Latitude: 39.960729 Longitude: -109.358074 NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			11"	8-5/8", 28#, IJ-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @	**1,103'**
Top of Birds Nest @	**1,360'**
Mahogany @	**1,722'**
Preset f/ GL @	**1,870' MD**

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @	**4,064'**

Mud logging program TBD

Cased hole logging program from TD - surf csg

7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC csg	Water / Fresh Water Mud 8.3-12.0 ppg

Mverde @	**6,163' TVD**
MVU2 @	**7,085' TVD**
MVU1 @	**7,652' TVD**

Max anticipated Mud required 12.0 ppg

	8,282' TVD
TD @	**8,371' MD**

'APIWellNo:43047511530000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	1,870	28.00	IJ-55	LTC	1.00	2.15	6.58
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	8,371	11.60	I-80	BTC	2.33	1.23	3.28

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.88

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,252 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,074 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,370'	65/35 Poz + 6% Gel + 10 pps gilsonite	130	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	5,751'	Premium Lite II +0.25 pps	500	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,620'	50/50 Poz/G + 10% salt + 2% gel	550	20%	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.

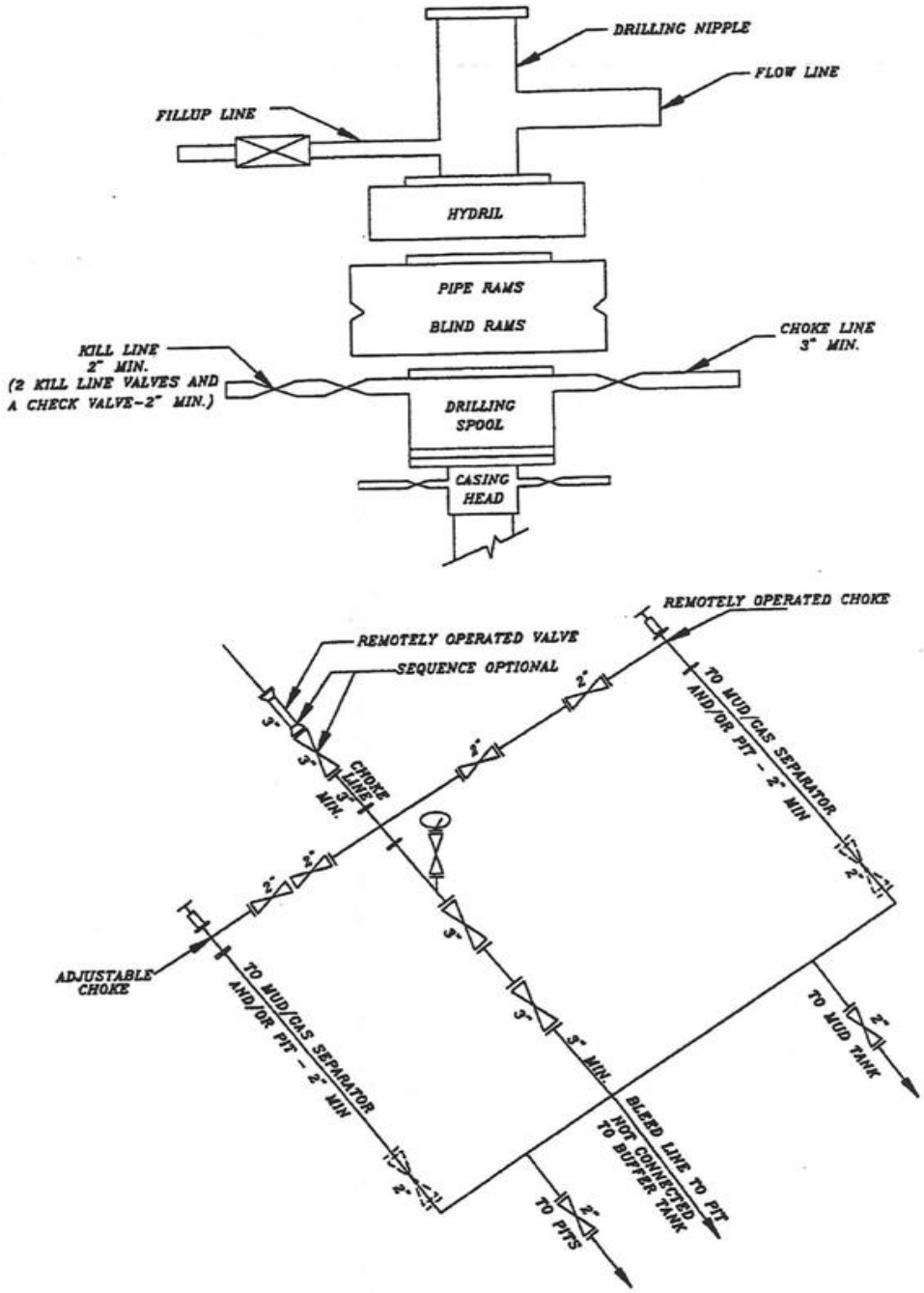
Surveys will be taken at 1,000' minimum intervals.

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 1023-8L3DS



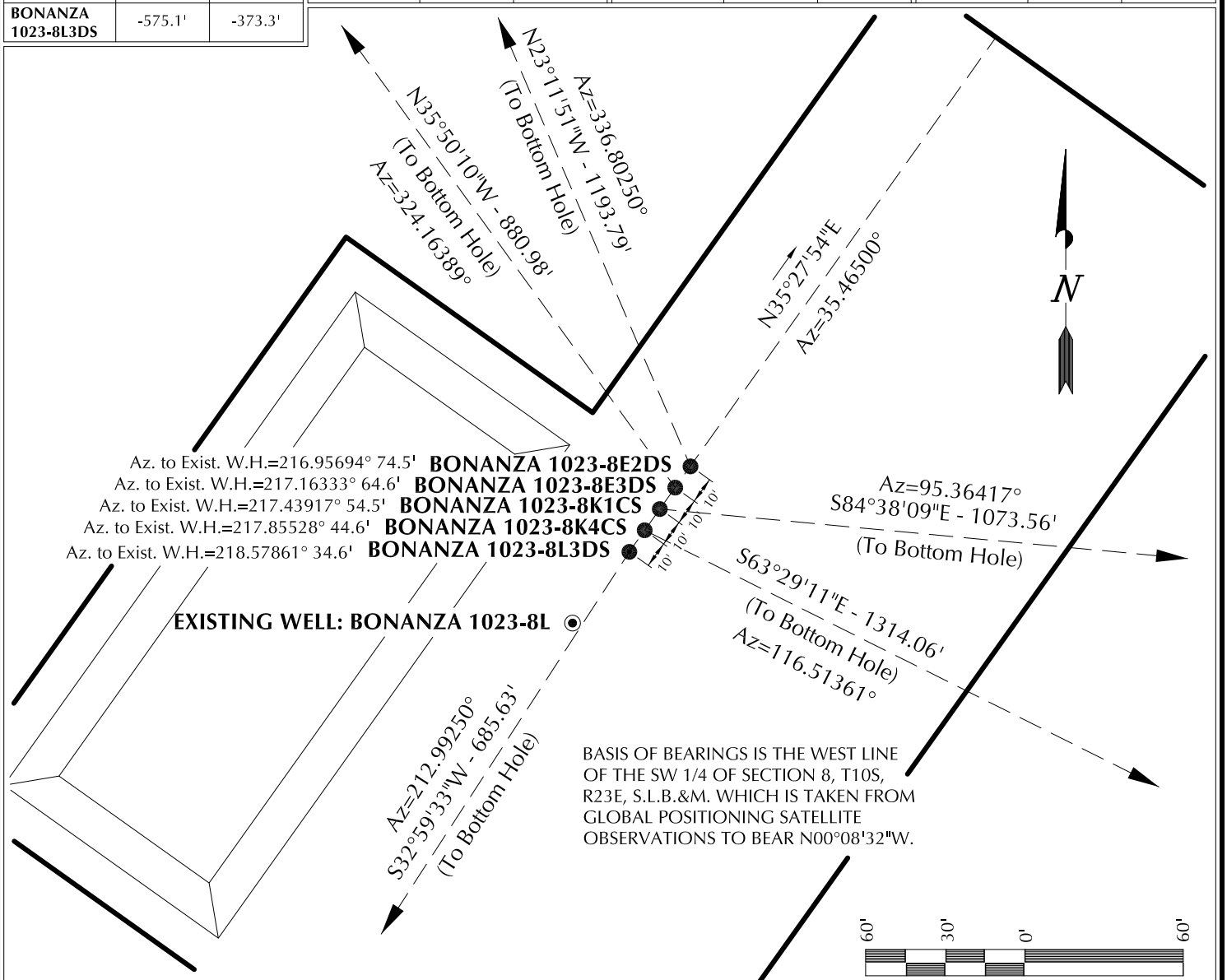
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

'APIWellNo:43047511530000'

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
BONANZA 1023-8E2DS	39°57'44.623" 39.962395°	109°21'23.965" 109.356657°	39°57'44.745" 39.962429°	109°21'21.522" 109.355978°	2249' FSL 968' FWL	39°57'55.469" 39.965408°	109°21'29.986" 109.358330°	39°57'55.592" 39.965442°	109°21'27.542" 109.357651°	1927' FNL 500' FWL
BONANZA 1023-8E3DS	39°57'44.543" 39.962373°	109°21'24.040" 109.356678°	39°57'44.666" 39.962407°	109°21'21.596" 109.355999°	2241' FSL 962' FWL	39°57'51.605" 39.964335°	109°21'30.651" 109.358514°	39°57'51.728" 39.964369°	109°21'28.207" 109.357835°	2318' FNL 448' FWL
BONANZA 1023-8K1CS	39°57'44.463" 39.962351°	109°21'24.115" 109.356699°	39°57'44.585" 39.962385°	109°21'21.671" 109.356020°	2233' FSL 956' FWL	39°57'43.458" 39.962072°	109°21'10.393" 109.352887°	39°57'43.581" 39.962106°	109°21'07.950" 109.352208°	2125' FSL 2025' FWL
BONANZA 1023-8K4CS	39°57'44.383" 39.962329°	109°21'24.189" 109.356719°	39°57'44.505" 39.962363°	109°21'21.745" 109.356040°	2225' FSL 951' FWL	39°57'38.573" 39.960715°	109°21'09.101" 109.352528°	39°57'38.696" 39.960749°	109°21'06.658" 109.351850°	1630' FSL 2125' FWL
BONANZA 1023-8L3DS	39°57'44.302" 39.962306°	109°21'24.264" 109.356740°	39°57'44.425" 39.962340°	109°21'21.820" 109.356061°	2216' FSL 945' FWL	39°57'38.625" 39.960729°	109°21'29.066" 109.358074°	39°57'38.747" 39.960763°	109°21'26.622" 109.357395°	1644' FSL 570' FWL
BONANZA 1023-8L	39°57'44.035" 39.962232°	109°21'24.541" 109.356817°	39°57'44.158" 39.962266°	109°21'22.097" 109.356138°	2190' FSL 923' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-8E2DS	1097.3'	-470.2'	BONANZA 1023-8E3DS	714.2'	-515.8'	BONANZA 1023-8K1CS	-100.4'	1068.9'	BONANZA 1023-8K4CS	-586.6'	1175.9'
BONANZA 1023-8L3DS	-575.1'	-373.3'									



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

WELL PAD - BONANZA 1023-8L

WELL PAD INTERFERENCE PLAT
WELLS - BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 02-18-10	SURVEYED BY: M.S.B.	SHEET NO: 6
DATE DRAWN: 02-19-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 06-02-10 E.M.S.	6 OF 19

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

PROPOSED ACCESS ROAD RE-ROUTE

TOPSOIL STOCKPILE

RESERVE PIT AND EXCESS CUT STOCKPILE

MOVE EXISTING SPOILS PILE TO PROPOSED LOCATION

N23°11'51"W - 1193.79' (TO BOTTOM HOLE)

N35°50'10"W - 880.98' (TO BOTTOM HOLE)

S84°38'09"E - 1073.56' (TO BOTTOM HOLE)

S63°29'11"E - 1314.06' (TO BOTTOM HOLE)

S32°59'33"W - 685.63' (TO BOTTOM HOLE)

BONANZA 1023-8E2DS
BONANZA 1023-8E3DS
BONANZA 1023-8K1CS
BONANZA 1023-8K4CS
BONANZA 1023-8L3DS

EXISTING WELL: BONANZA 1023-8L

EXISTING ACCESS ROAD

6" GAS LINE
6" LIQUID LINE

8" GAS LINE
6" LIQUID LINE

8" GAS LINE
6" LIQUID LINE (L.P.)
6" LIQUID LINE (H.P.)

RESERVE PIT
12' DEPTH
SLOPE 1.5:1

RECLAIMED PIT

EXISTING SEPARATOR/ METER

EXISTING METHANOL TANK

EXISTING TANKS AND BERM

EXISTING WELL PAD

MAINTAIN EXISTING STOCK POND

MAINTAIN EXISTING STOCK POND

TOPSOIL STOCKPILE

WELL PAD - BONANZA 1023-8L DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5299.9'
FINISHED GRADE ELEVATION = 5299.4'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.23 ACRES
TOTAL DAMAGE AREA = 5.53 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 24,269 C.Y.
TOTAL FILL FOR WELL PAD = 2,235 C.Y.
TOPSOIL @ 6" DEPTH = 1,547 C.Y.
EXCESS MATERIAL = 22,034 C.Y.

RESERVE PIT QUANTITIES

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

WELL PAD LEGEND

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

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

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

WELL PAD - BONANZA 1023-8L

WELL PAD - LOCATION LAYOUT
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS
& BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

Scale: 1"=60' | Date: 3/25/10 | SHEET NO: 7
REVISED: | SEA 6/22/10 | 7 OF 19

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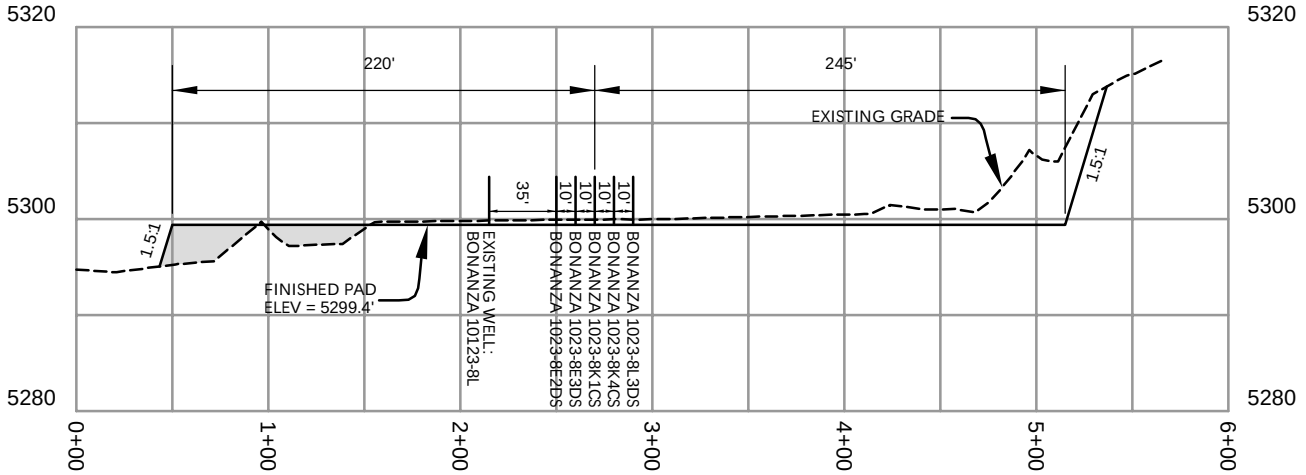
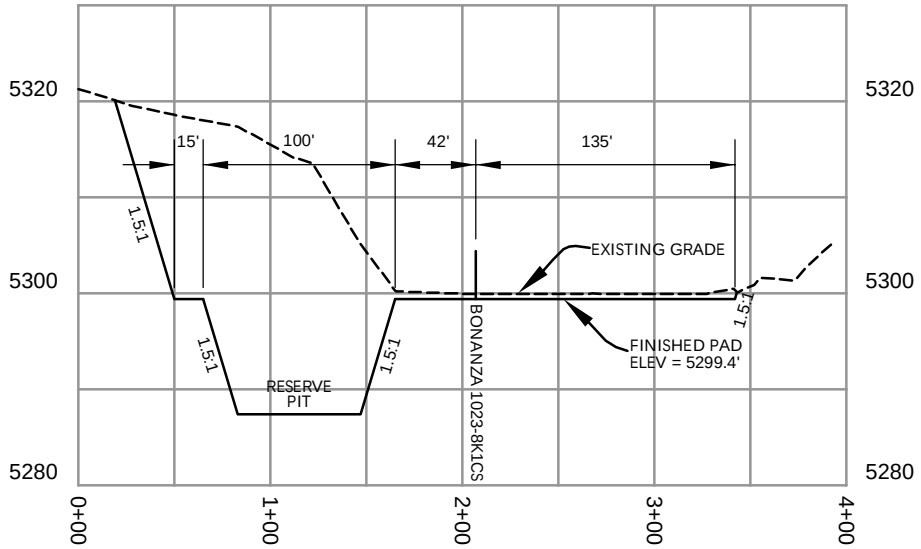


CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

HORIZONTAL 0 50 100 1" = 100'

VERTICAL 0 10 20 1" = 20'

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

WELL PAD - BONANZA 1023-8L

WELL PAD - CROSS SECTIONS
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS
& BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E,
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Scale: 1"=100' | Date: 3/25/10 | SHEET NO: 8
REVISED: SEA 6/22/10
8 OF 19

API Well No: 43047511530000

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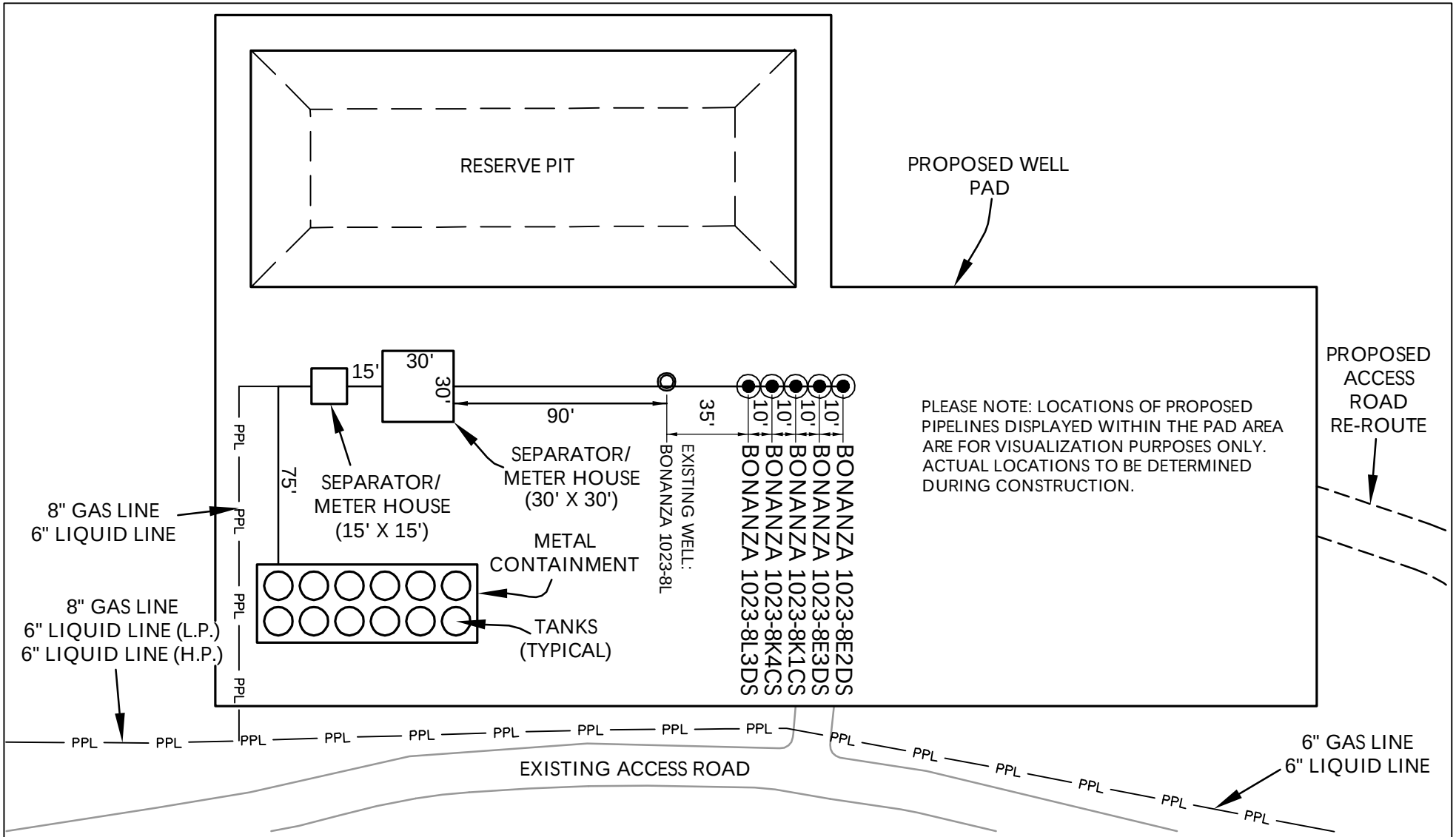

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-8L

WELL PAD - FACILITIES DIAGRAM
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS
& BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

WELL PAD LEGEND

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

HORIZONTAL 0 30' 60' 1" = 60'

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

Scale: 1"=60'	Date: 3/25/10	SHEET NO:
REVISED:	SEA 6/22/10	9

9 OF 19

'API WellNo:4304751153000'
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'APIWellNo:43047511530000'

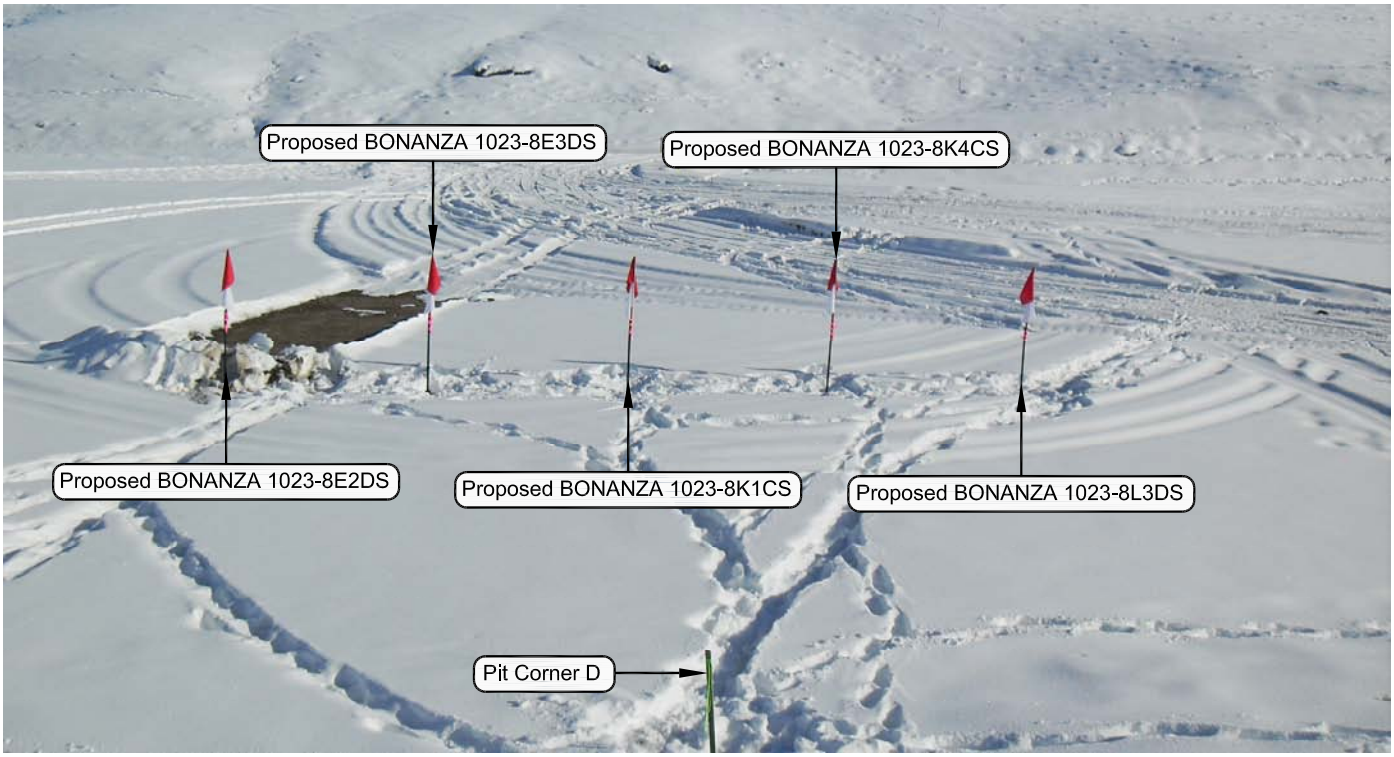


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES **CAMERA ANGLE: SOUTHEASTERLY**

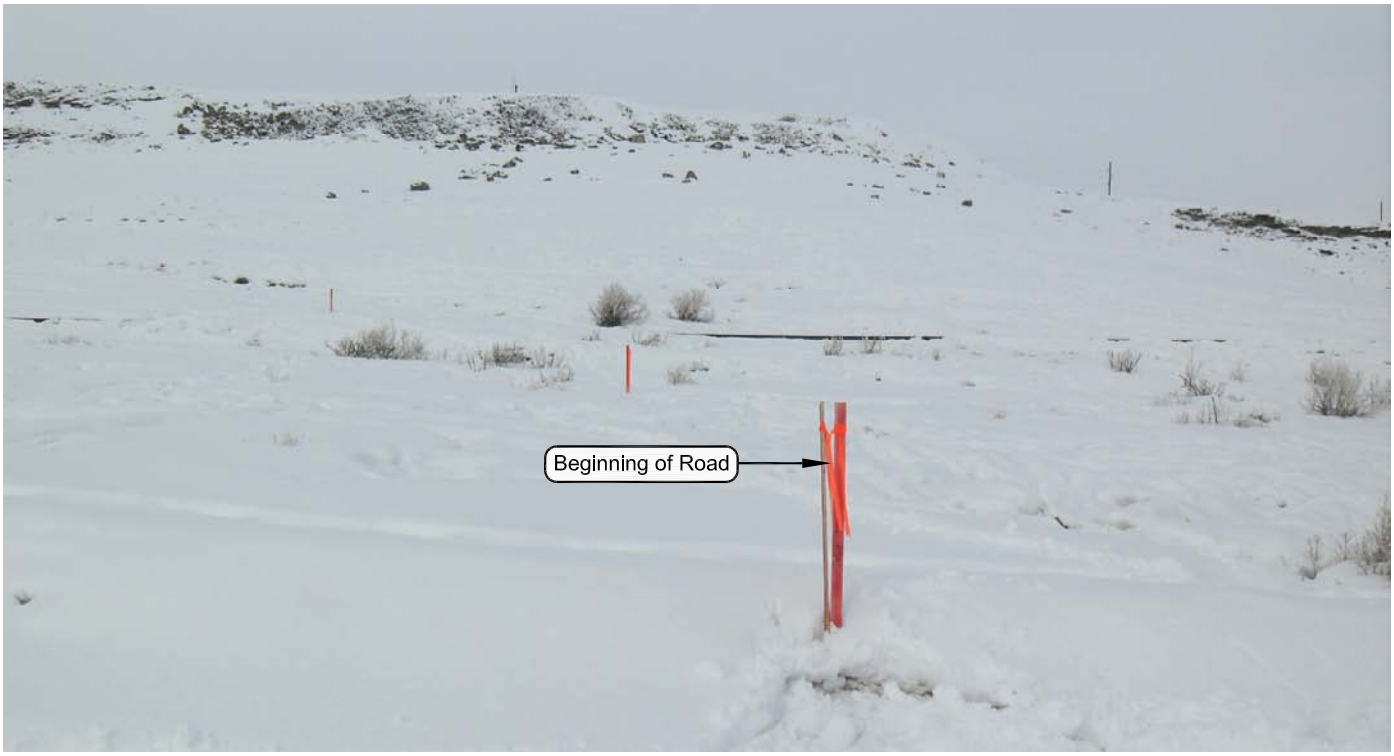


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD **CAMERA ANGLE: NORTHWESTERLY**

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

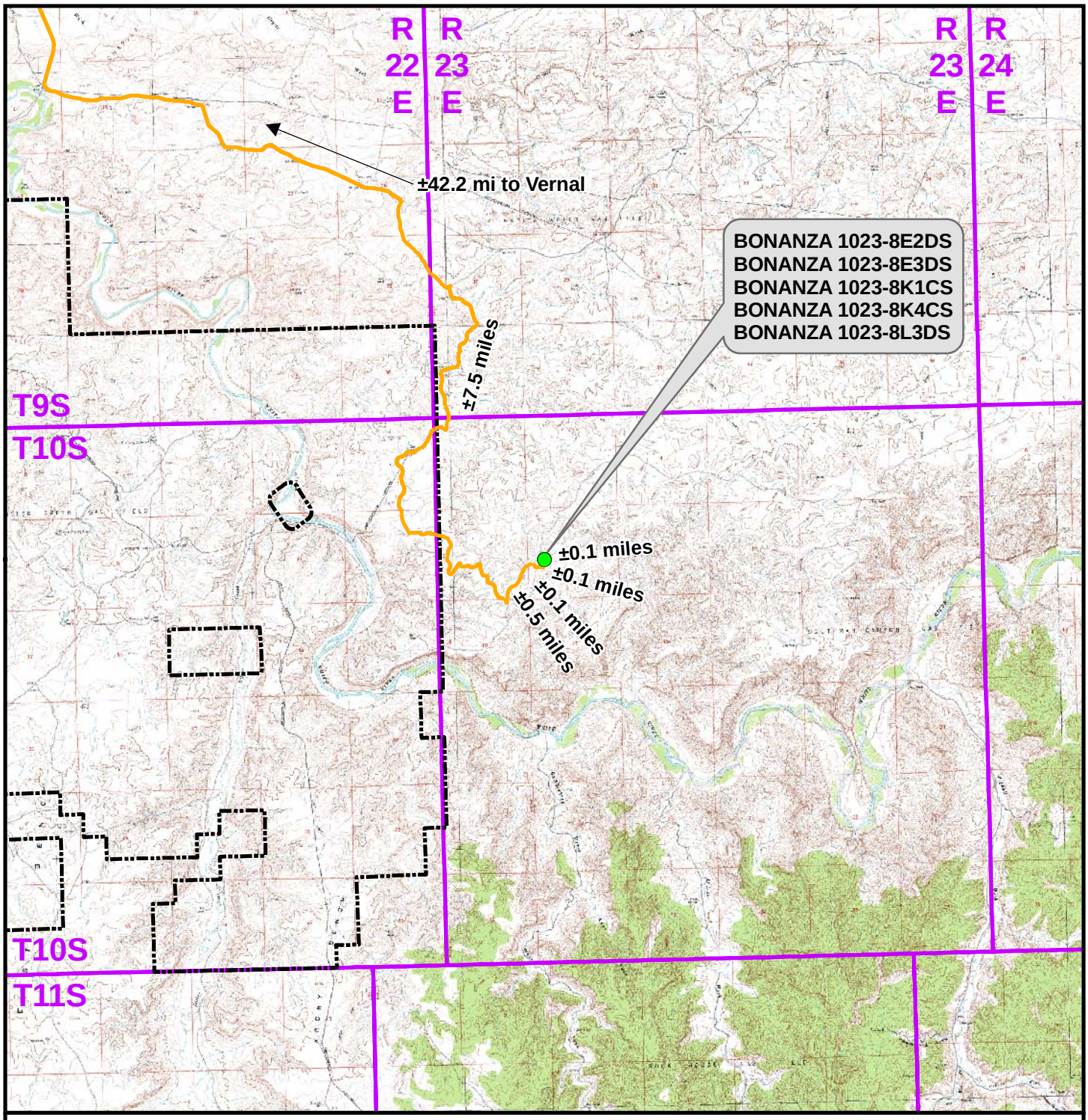
Well Pad - BONANZA 1023-8L

BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS LOCATION PHOTOS LOCATED IN SECTION 8, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE PHOTOS TAKEN: 02-18-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO:
DATE DRAWN: 02-19-10	DRAWN BY: E.M.S.	10
Date Last Revised: 06-02-10 E.M.S.		10 OF 19



Legend

Distance From Well Pad - BONANZA 1023-8L To Unit Boundary: ±6,014ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

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

WELL PAD - BONANZA 1023-8L

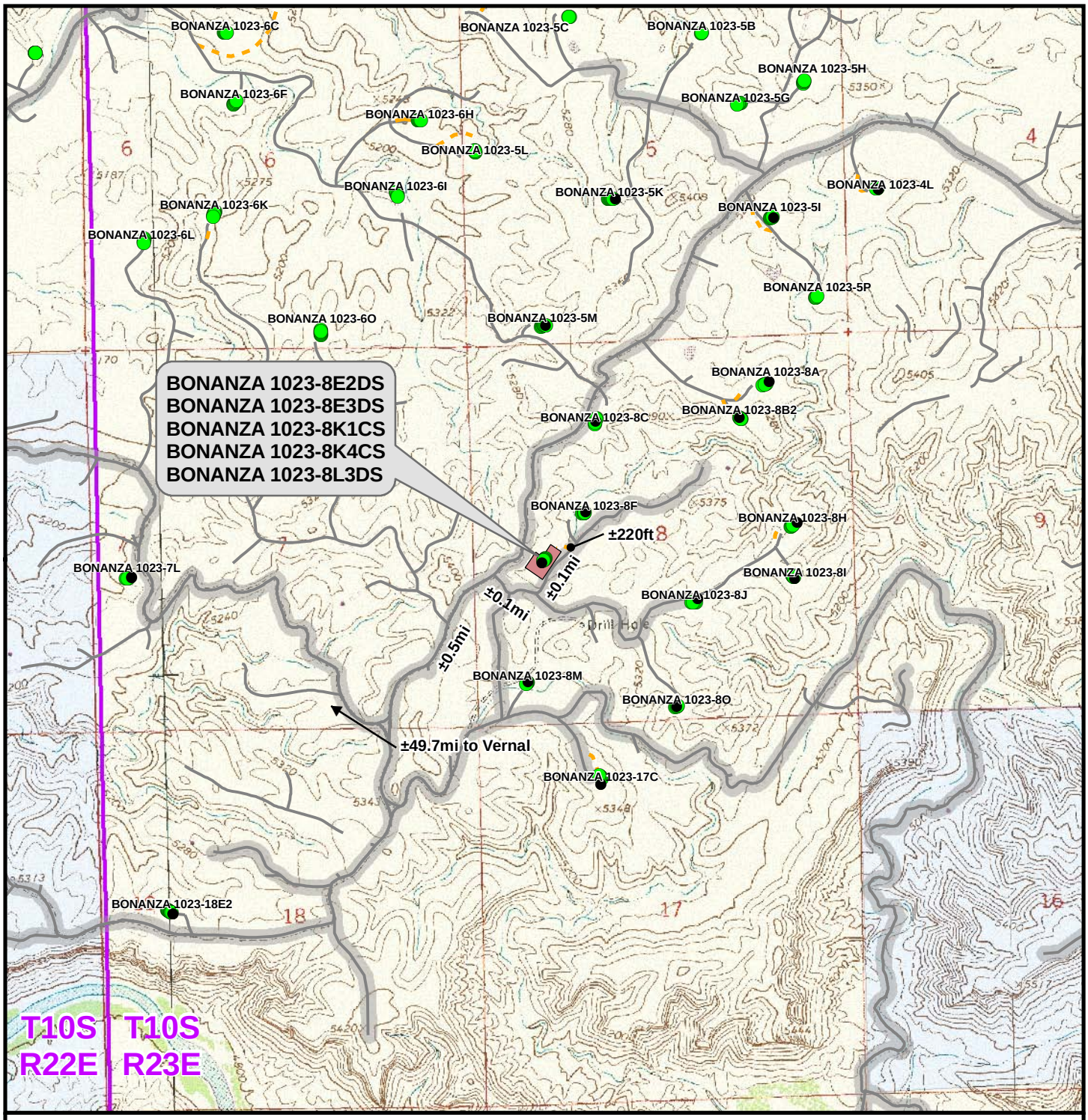
TOPO A
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1:100,000	NAD83 USP Central		Sheet No: 11
Drawn: CPS	Date: 25 Mar 2010		11 of 19
Revised: CPS	Date: 22 June 2010		

'APIWellNo:43047511530000'



Legend

Total Proposed Road (Re-Route) Length: ±220ft

Well - Proposed | Well Pad | Road - Proposed | County Road | Bureau of Land Management | State

Well - Existing | Road - Existing | Indian Reservation | Private

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

WELL PAD - BONANZA 1023-8L

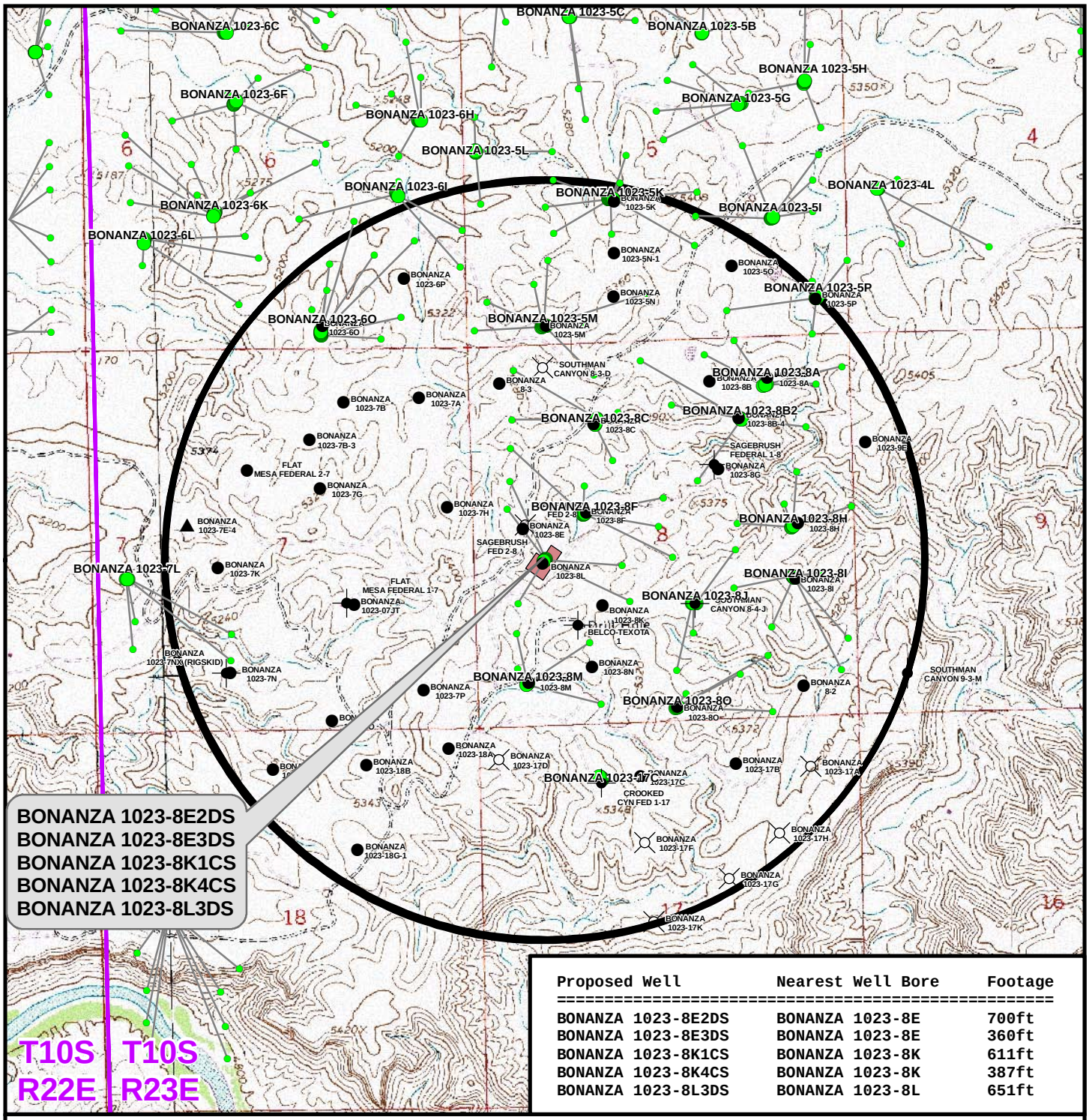
TOPO B
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 12
Drawn: CPS	Date: 25 Mar 2010		12 of 19
Revised: CPS	Date: 22 June 2010		

'APIWellNo:43047511530000'



Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-8E2DS	BONANZA 1023-8E	700ft
BONANZA 1023-8E3DS	BONANZA 1023-8E	360ft
BONANZA 1023-8K1CS	BONANZA 1023-8K	611ft
BONANZA 1023-8K4CS	BONANZA 1023-8K	387ft
BONANZA 1023-8L3DS	BONANZA 1023-8L	651ft

Legend

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

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

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

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

WELL PAD - BONANZA 1023-8L

TOPO C
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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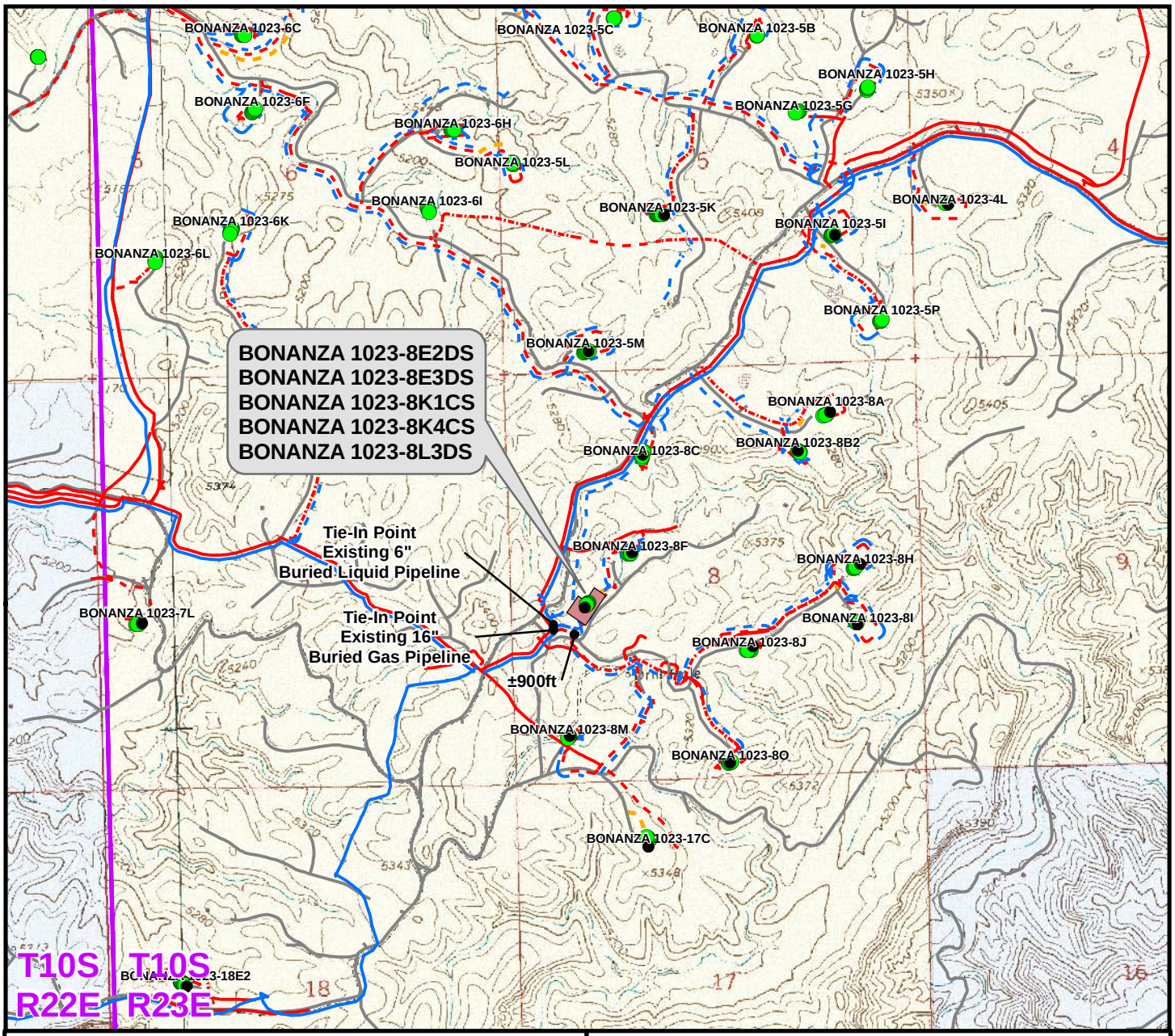
N

Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 13
Drawn: CPS	Date: 25 Mar 2010		13 of 19
Revised: CPS	Date: 22 June 2010		

'APIWellNo:43047511530000'



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±180ft
Proposed 6" (Edge of Pad to Tie-In Point)	±720ft
TOTAL PROPOSED LIQUID PIPELINE =	±900ft

Proposed Gas Pipeline	Length
Proposed 8" (First Meter House to Edge of Pad)	±180ft
Proposed 8" (Edge of Pad to Road Intersection)	±210ft
Proposed 12"(Road Intersection to Tie-In Point)	±510ft
TOTAL PROPOSED GAS PIPELINE =	±900ft

Legend

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

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

WELL PAD - BONANZA 1023-8L

TOPO D
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
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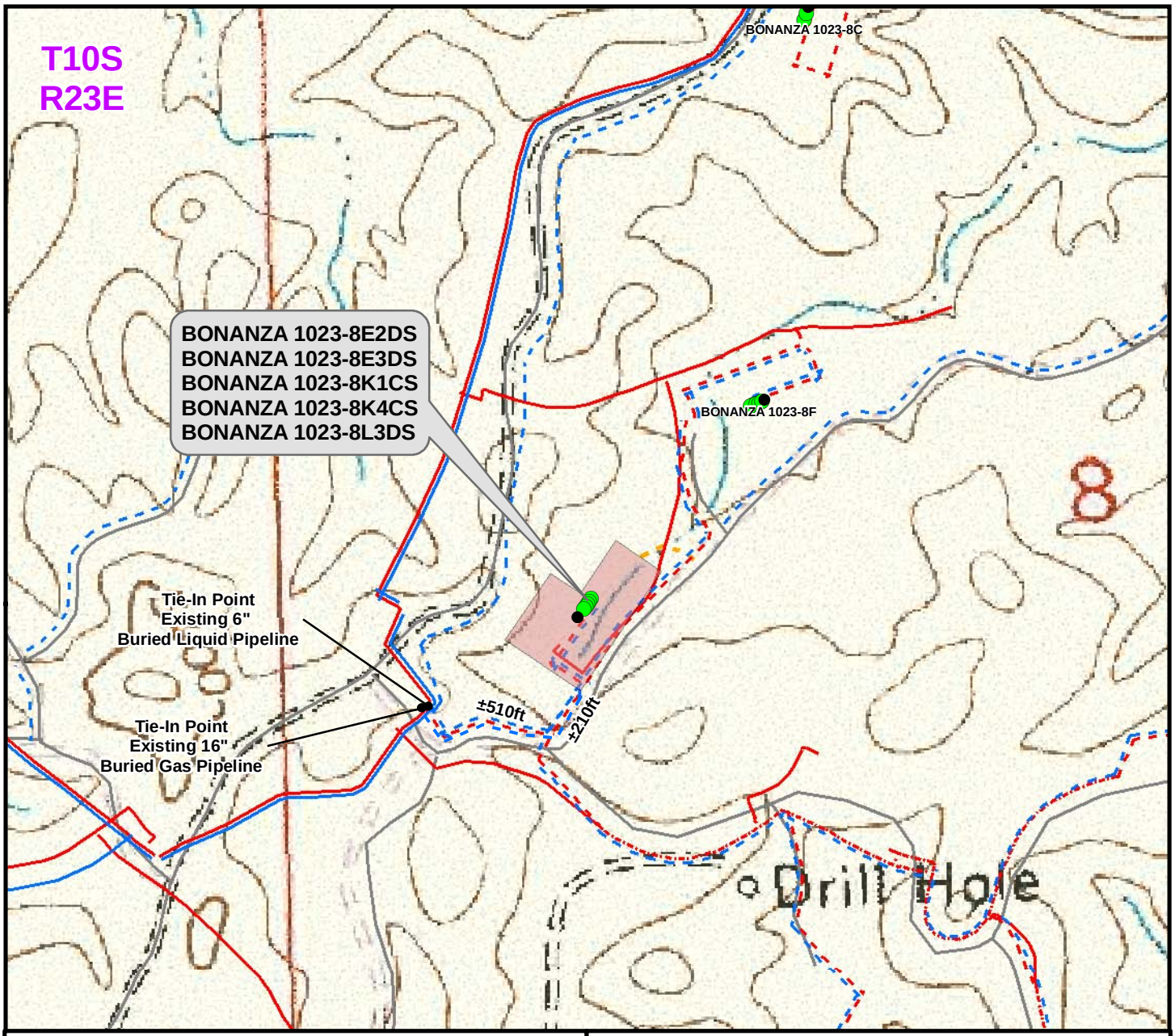
Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 14
Drawn: CPS	Date: 25 Mar 2010		14 of 19
Revised: CPS	Date: 22 June 2010		

'APIWellNo:43047511530000'



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±180ft
Proposed 6" (Edge of Pad to Tie-In Point)	±720ft
TOTAL PROPOSED LIQUID PIPELINE =	±900ft

Proposed Gas Pipeline	Length
Proposed 8" (First Meter House to Edge of Pad)	±180ft
Proposed 8" (Edge of Pad to Road Intersection)	±210ft
Proposed 12"(Road Intersection to Tie-In Point)	±510ft
TOTAL PROPOSED GAS PIPELINE =	±900ft

Legend

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

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

WELL PAD - BONANZA 1023-8L

TOPO D (PAD & PIPELINE DETAIL)
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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

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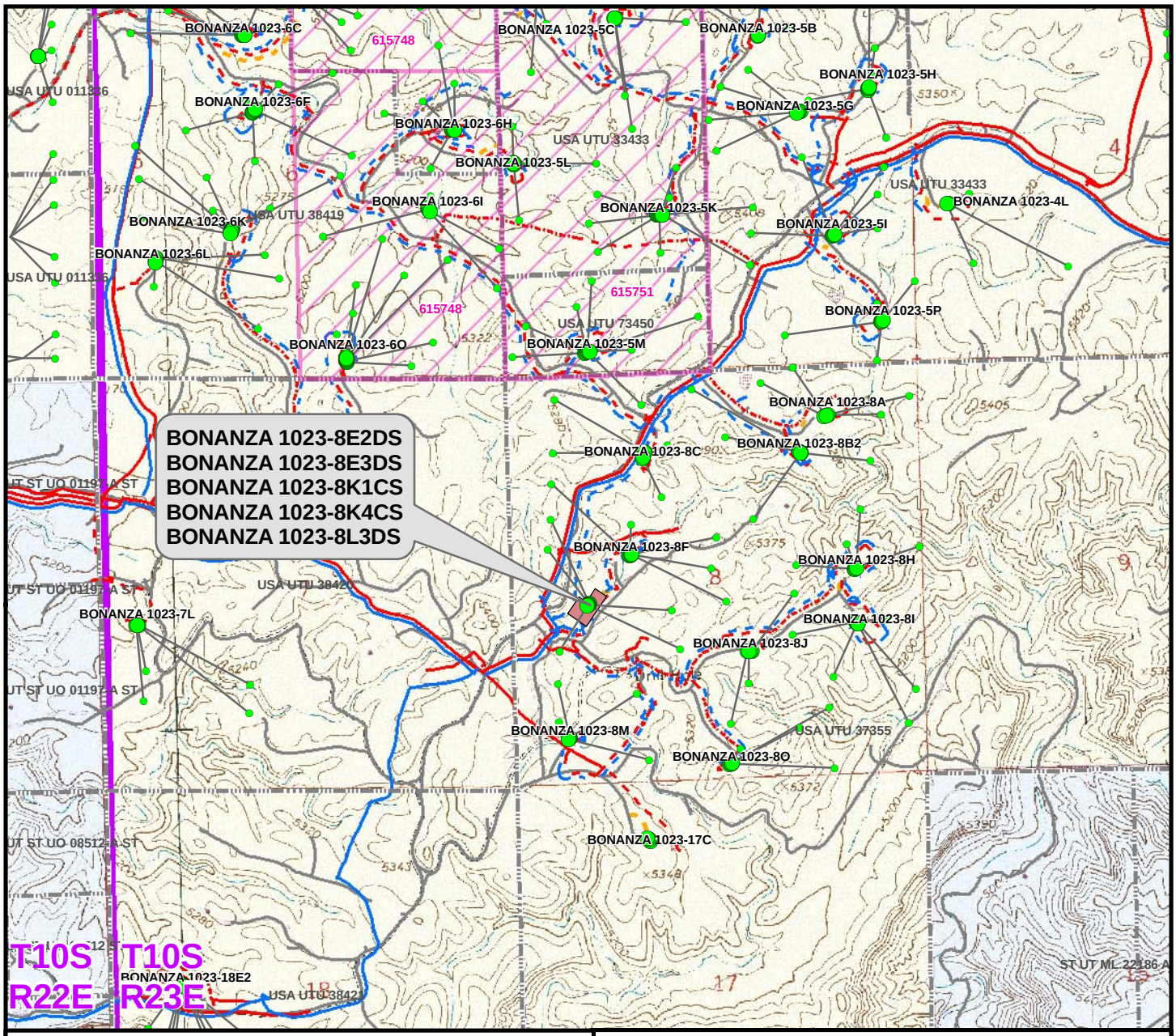
Scale: 1" = 500ft	NAD83 USP Central		Sheet No: 15
Drawn: CPS	Date: 25 Mar 2010		15 of 19
Revised: CPS	Date: 22 June 2010		

'APIWellNo:43047511530000'



Proposed Well	Distance to Nearest CA Boundary
BONANZA 1023-8E2DS	1,927ft
BONANZA 1023-8E3DS	2,318ft
BONANZA 1023-8K1CS	3,138ft
BONANZA 1023-8K4CS	3,633ft
BONANZA 1023-8L3DS	3,047ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-8E2DS	500ft
BONANZA 1023-8E3DS	448ft
BONANZA 1023-8K1CS	2,025ft
BONANZA 1023-8K4CS	2,125ft
BONANZA 1023-8L3DS	570ft

Legend

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

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

WELL PAD - BONANZA 1023-8L

TOPO E
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
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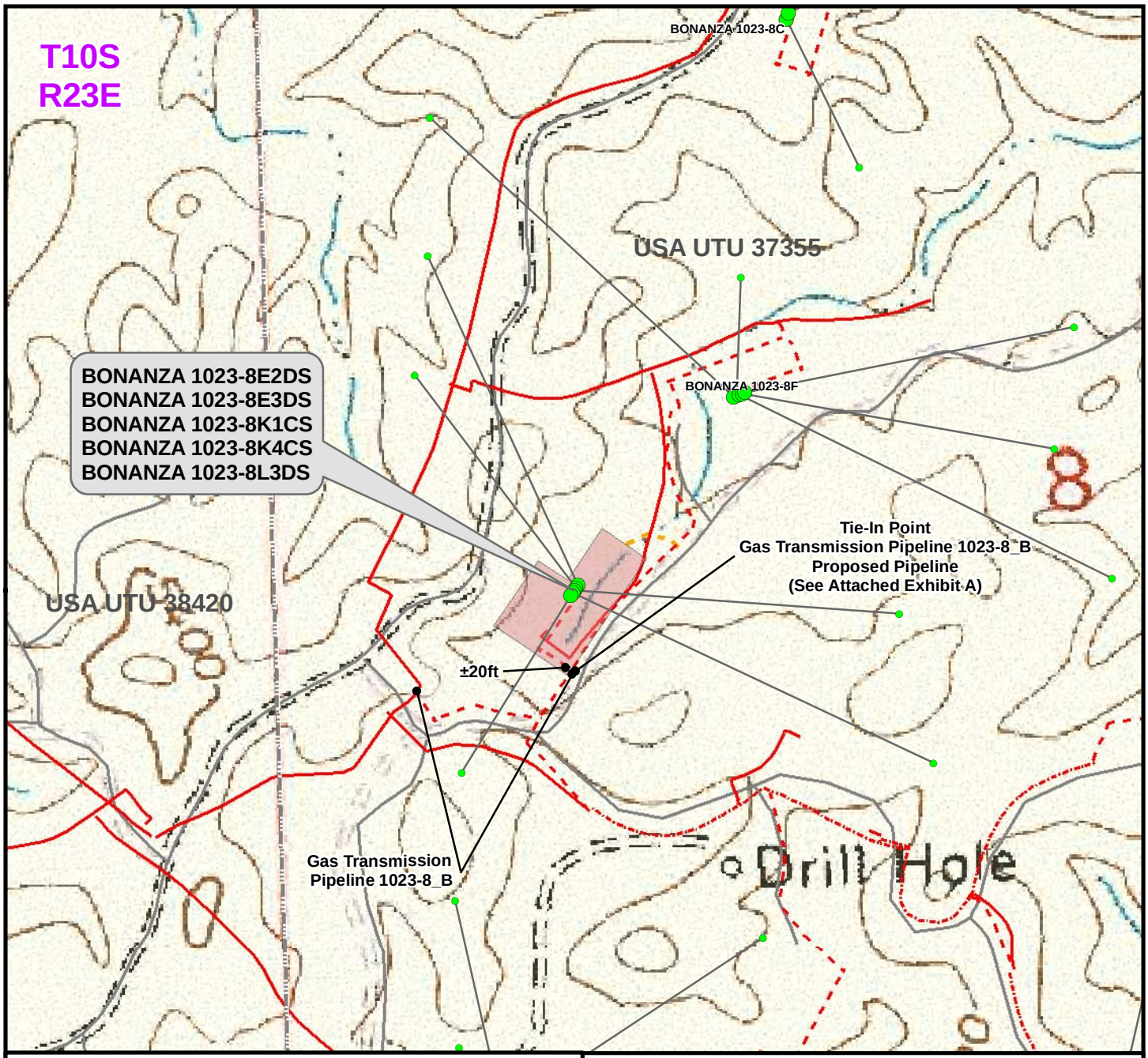
Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 16
Drawn: CPS	Date: 25 Mar 2010		16 of 19
Revised: CPS	Date: 22 June 2010		

'APIWellNo:43047511530000'



Gas Pipeline	Length	CA Number
BONANZA 1023-8L	N/A	N/A
TOTAL: N/A		

Gas Pipeline	Length	Lease Number
BONANZA 1023-8L	20ft	USA UTU 37355
TOTAL: 20ft		

Legend

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

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

WELL PAD - BONANZA 1023-8L

TOPO E (GAS PIPELINE & LEASE DETAIL)
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
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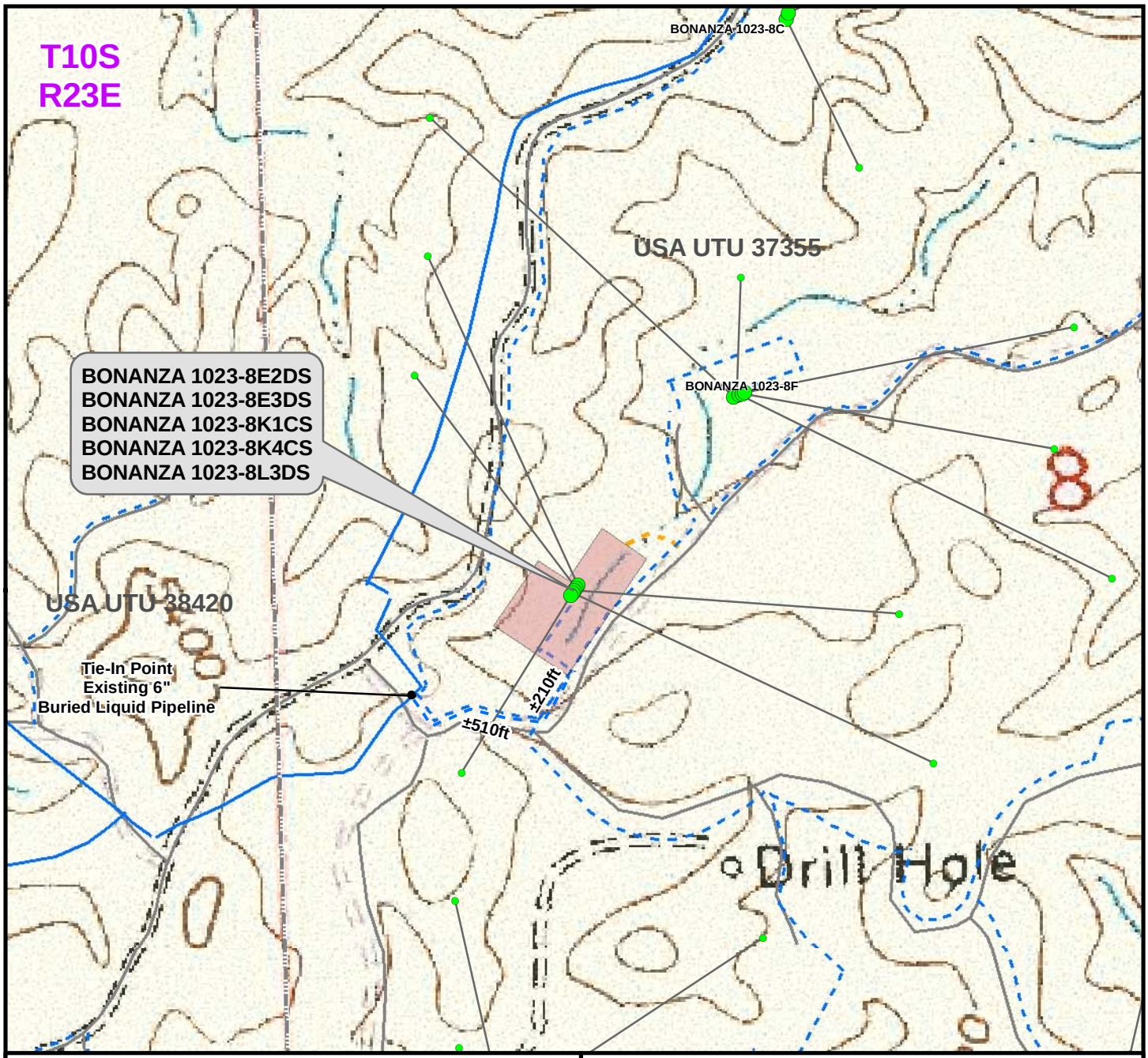
Scale: 1" = 500ft	NAD83 USP Central	Sheet No: 17	
Drawn: JFE	Date: 22 June 2010		
Revised:	Date:		17 of 19

'APIWellNo:43047511530000'



Liquid Pipeline	Length	CA Number
BONANZA 1023-8L	N/A	N/A
TOTAL: N/A		

Liquid Pipeline	Length	Lease Number
BONANZA 1023-8L	720ft	USA UTU 37355
TOTAL: 0ft		

Legend

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

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

WELL PAD - BONANZA 1023-8L

TOPO E (LIQUID PIPELINE & LEASE DETAIL)
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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

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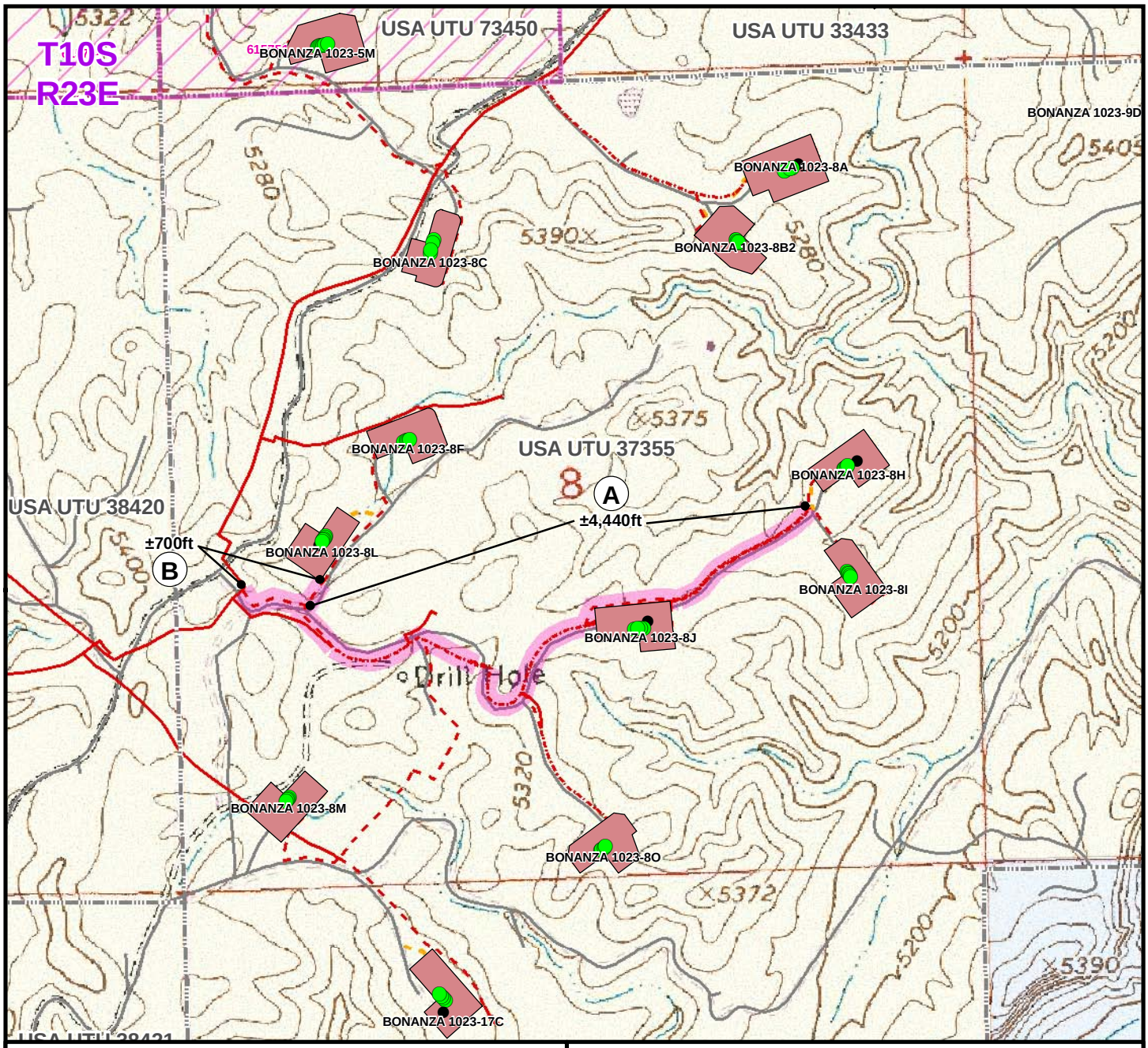
Scale: 1" = 500ft	NAD83 USP Central	Sheet No:	
Drawn: JFE	Date: 22 June 2010	18	18 of 19
Revised:	Date:		

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-8L
WELLS – BONANZA 1023-8E2DS, BONANZA 1023-8E3DS, BONANZA 1023-8K1CS, BONANZA 1023-8K4CS & BONANZA 1023-8L3DS
Section 8, T10S, R23E, S.L.B.&M.

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 20.2 MILES TO THE JUNCTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG THE GLEN BENCH ROAD APPROXIMATLY 14.4 MILES TO THE INTERSECTION OF THE CHIPETA WELLS ROAD (COUNTY B ROAD 3410) WHICH ROAD INTERSECTION IS APPROXIMATELY 400 FEET NORTHEAST OF THE MOUNTAIN FUEL BRIDGE, AT THE WHITE RIVER. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE CHIPETA WELLS ROAD APPROXIMATELY 4.3 MILES TO THE INTERSECTION OF THE ATCHEE WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION ALONG THE ATCHEE WASH ROAD APPROXIMATELY 7.5 MILES TO THE INTERSECTION OF THE COUNTY B ROAD 3420. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE COUNTY B ROAD 3420 APPROXIMATELY 0.5 MILES TO A CLASS D COUNTY ROAD TO THE RIGHT. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION ALONG THE COUNTY D ROAD APPROXIMATELY 0.1 MILES TO A SECOND CLASS D COUNTY ROAD TO THE LEFT. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE SECOND CLASS D ROAD APPROXIMATELY 0.1 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW THE ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 220 FEET TO THE PROPOSED WELL PAD.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.4 MILES IN A SOUTHERLY DIRECTION.

'APIWellNo:43047511530000'



Gas Transmission Line	Length	CA
1023-8_A	N/A	N/A
1023-8_B	N/A	N/A

Gas Transmission Line	Length	Lease
1023-8_A	4,440ft	USA UTU 37355
1023-8_B	700ft	USA UTU 37355

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- CA Agreement
- Lease Boundary
- Pipeline - Proposed
- Pipeline - To Be Upgraded
- Pipeline - Existing
- Gas Transmission Lines - Proposed
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

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

EXHIBIT A
GAS TRANSMISSION LINES
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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

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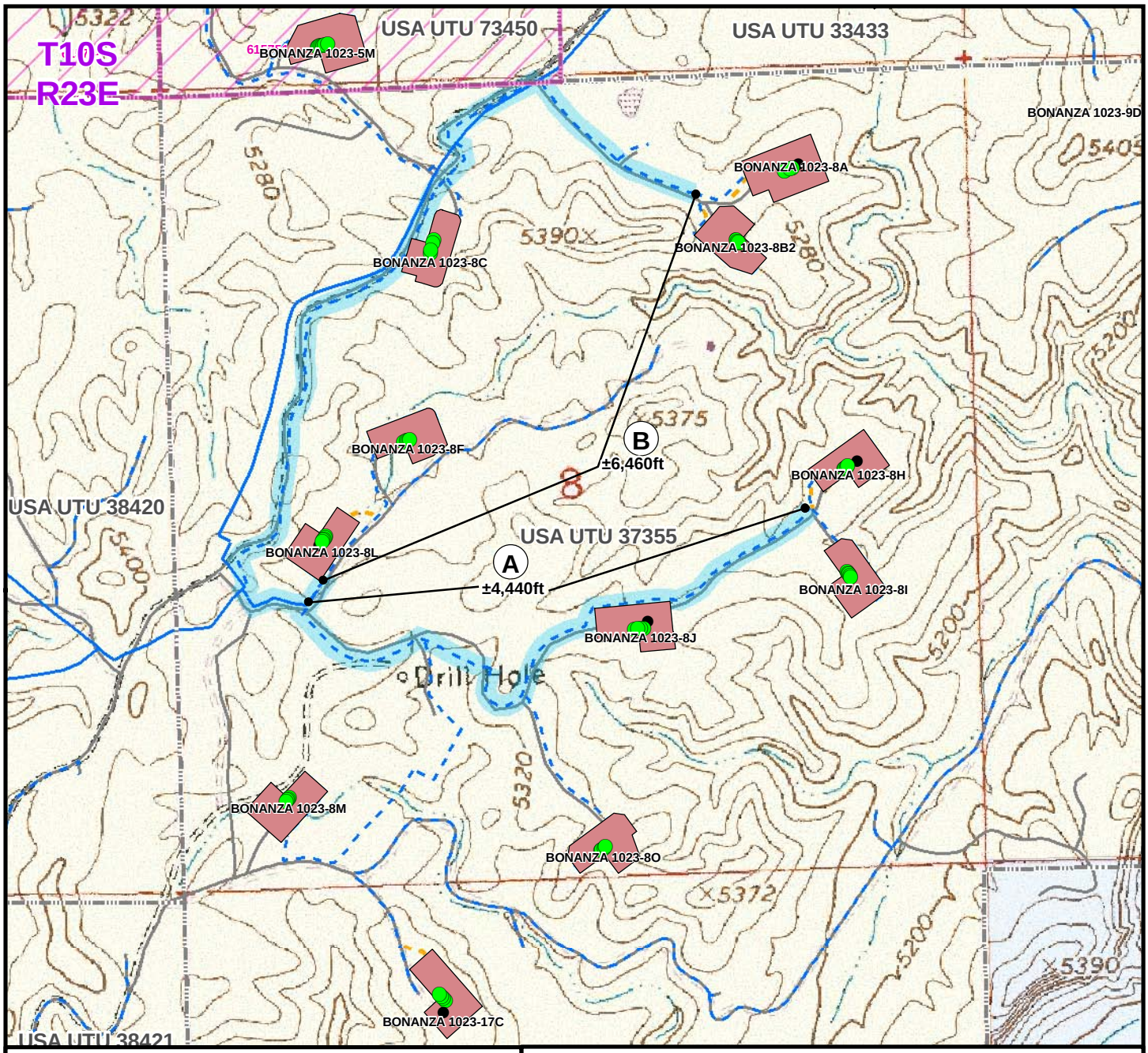
Scale: 1" = 1,000ft	NAD83 USP Central	EXHIBIT
Drawn: JFE	Date: 22 June 2010	A
Revised:	Date:	

'APIWellNo:43047511530000'



Liquid Transmission Line	Length	CA
1023-8_A	N/A	N/A
1023-8_B	N/A	N/A

Liquid Transmission Line	Length	Lease
1023-8_A	4,440ft	USA UTU 37355
1023-8_B	6,460ft	USA UTU 37355

Legend

- Well - Proposed
- Well - Existing
- Bottom Hole - Proposed
- Well Path
- Well Pad
- CA Agreement
- Lease Boundary
- Water Pipeline - Proposed
- Water Pipeline - To Be Upgraded
- Water Pipeline - Existing
- Water Transmission Lines - Proposed
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

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

EXHIBIT B
LIQUID TRANSMISSION LINES
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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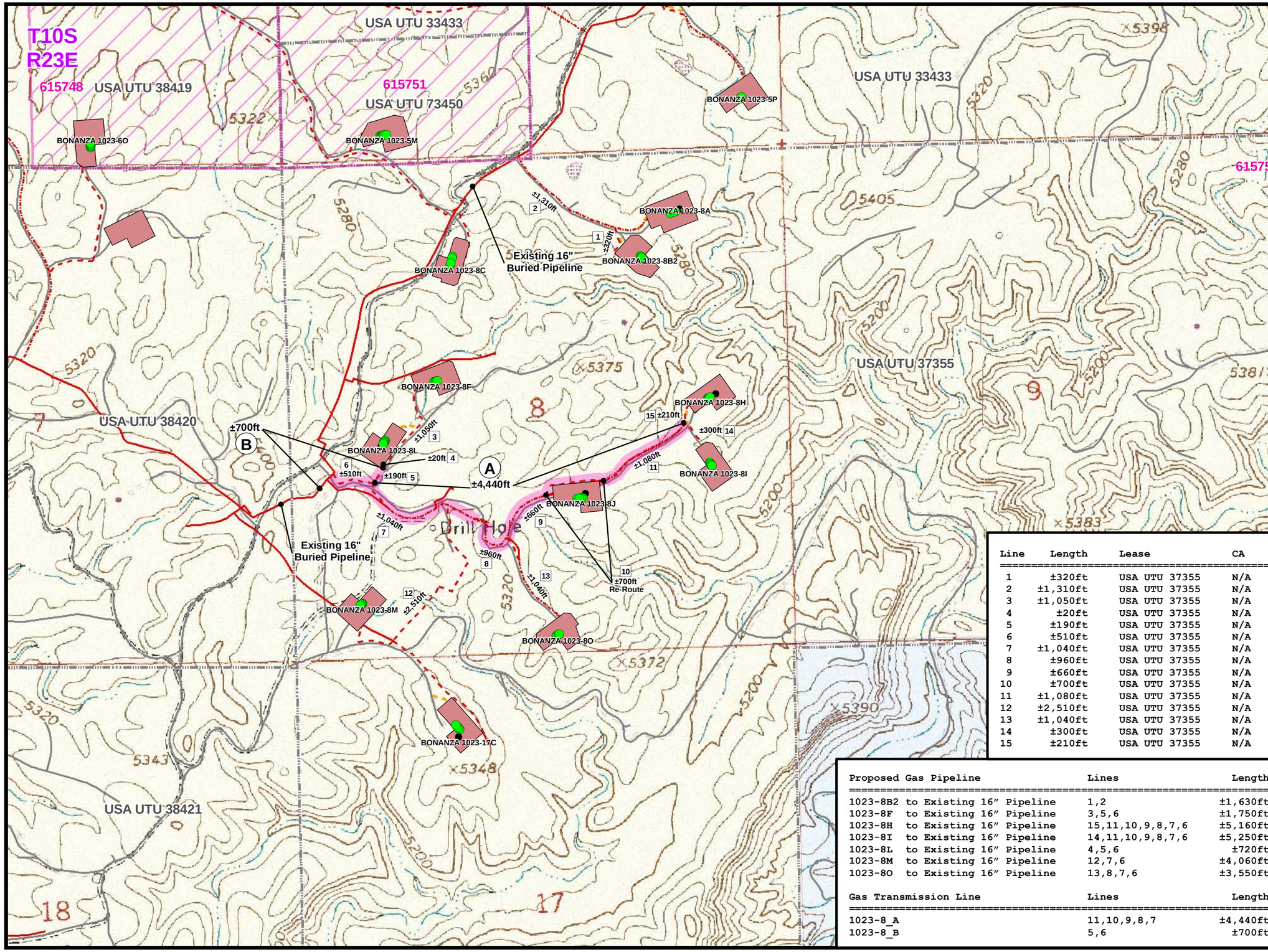
N

Scale: 1" = 1,000ft	NAD83 USP Central	EXHIBIT
Drawn: JFE	Date: 22 June 2010	B
Revised:	Date:	

'APIWellNo:43047511530000'



Line	Length	Lease	CA
1	±320ft	USA UTU 37355	N/A
2	±1,310ft	USA UTU 37355	N/A
3	±1,050ft	USA UTU 37355	N/A
4	±20ft	USA UTU 37355	N/A
5	±190ft	USA UTU 37355	N/A
6	±510ft	USA UTU 37355	N/A
7	±1,040ft	USA UTU 37355	N/A
8	±960ft	USA UTU 37355	N/A
9	±660ft	USA UTU 37355	N/A
10	±700ft	USA UTU 37355	N/A
11	±1,080ft	USA UTU 37355	N/A
12	±2,510ft	USA UTU 37355	N/A
13	±1,040ft	USA UTU 37355	N/A
14	±300ft	USA UTU 37355	N/A
15	±210ft	USA UTU 37355	N/A

Proposed Gas Pipeline	Lines	Length
1023-8B2 to Existing 16" Pipeline	1,2	±1,630ft
1023-8F to Existing 16" Pipeline	3,5,6	±1,750ft
1023-8H to Existing 16" Pipeline	15,11,10,9,8,7,6	±5,160ft
1023-8I to Existing 16" Pipeline	14,11,10,9,8,7,6	±5,250ft
1023-8L to Existing 16" Pipeline	4,5,6	±720ft
1023-8M to Existing 16" Pipeline	12,7,6	±4,060ft
1023-8O to Existing 16" Pipeline	13,8,7,6	±3,550ft

Gas Transmission Line	Lines	Length
1023-8_A	11,10,9,8,7	±4,440ft
1023-8_B	5,6	±700ft

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Sheridan, WY 82801
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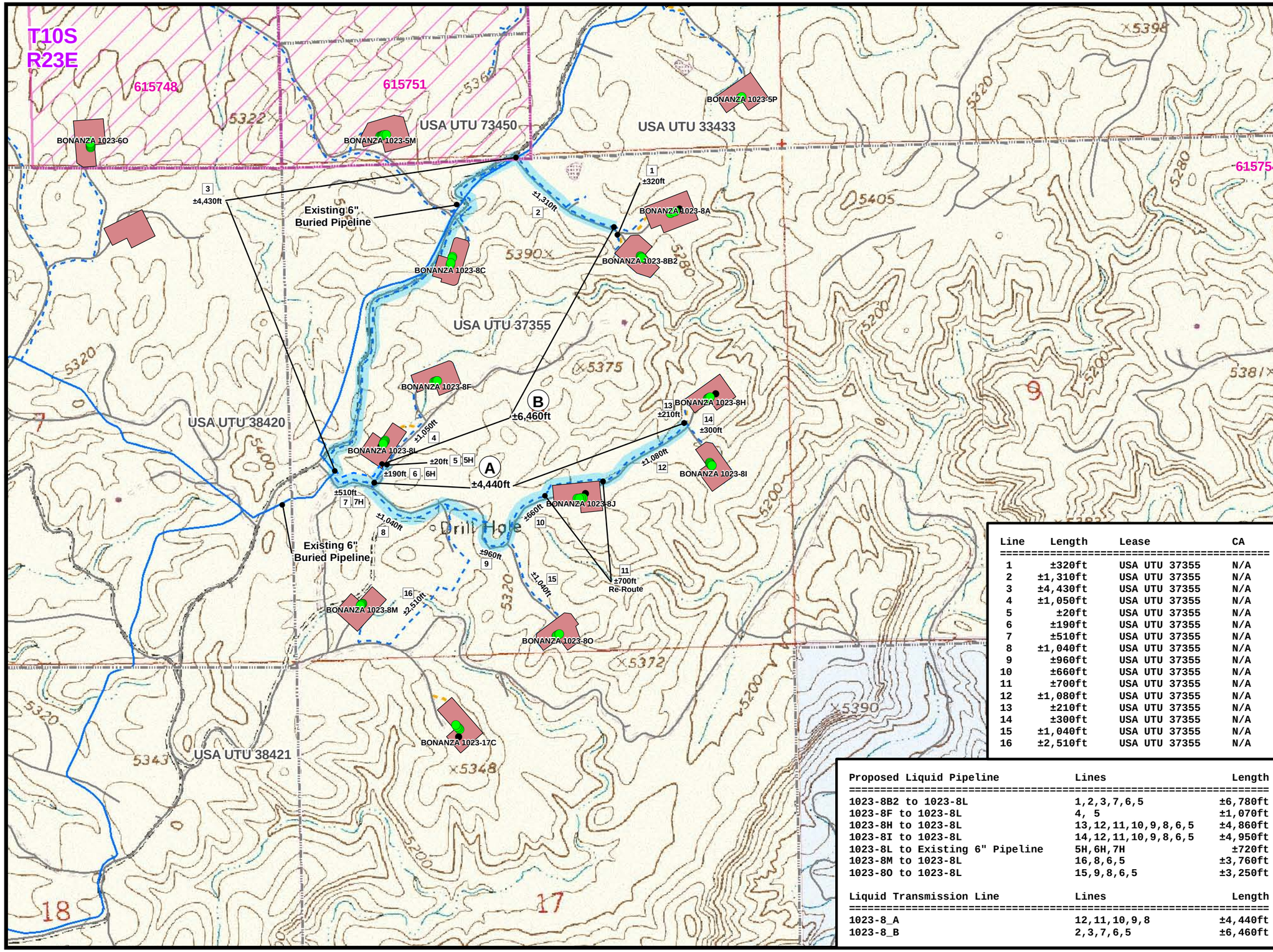
EXHIBIT A
GAS TRANSMISSION LINES
LOCATED IN SECTION 8
T10S, R23E, S.L.B.&M.
UINTAH COUNTY, UTAH

NAD83 USP-Cft — Scale: 1" = 1,000ft

Drawn by: JELo — Date: 25 June 2010
Revised: — Date:

'APIWellNo:43047511530000'



Legend

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

N

Line	Length	Lease	CA
1	±320ft	USA UTU 37355	N/A
2	±1,310ft	USA UTU 37355	N/A
3	±4,430ft	USA UTU 37355	N/A
4	±1,050ft	USA UTU 37355	N/A
5	±20ft	USA UTU 37355	N/A
6	±190ft	USA UTU 37355	N/A
7	±510ft	USA UTU 37355	N/A
8	±1,040ft	USA UTU 37355	N/A
9	±960ft	USA UTU 37355	N/A
10	±660ft	USA UTU 37355	N/A
11	±700ft	USA UTU 37355	N/A
12	±1,080ft	USA UTU 37355	N/A
13	±210ft	USA UTU 37355	N/A
14	±300ft	USA UTU 37355	N/A
15	±1,040ft	USA UTU 37355	N/A
16	±2,510ft	USA UTU 37355	N/A

Proposed Liquid Pipeline	Lines	Length
1023-8B2 to 1023-8L	1,2,3,7,6,5	±6,780ft
1023-8F to 1023-8L	4, 5	±1,070ft
1023-8H to 1023-8L	13,12,11,10,9,8,6,5	±4,860ft
1023-8I to 1023-8L	14,12,11,10,9,8,6,5	±4,950ft
1023-8L to Existing 6" Pipeline	5H,6H,7H	±720ft
1023-8M to 1023-8L	16,8,6,5	±3,760ft
1023-8O to 1023-8L	15,9,8,6,5	±3,250ft

Liquid Transmission Line	Lines	Length
1023-8_A	12,11,10,9,8	±4,440ft
1023-8_B	2,3,7,6,5	±6,460ft

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

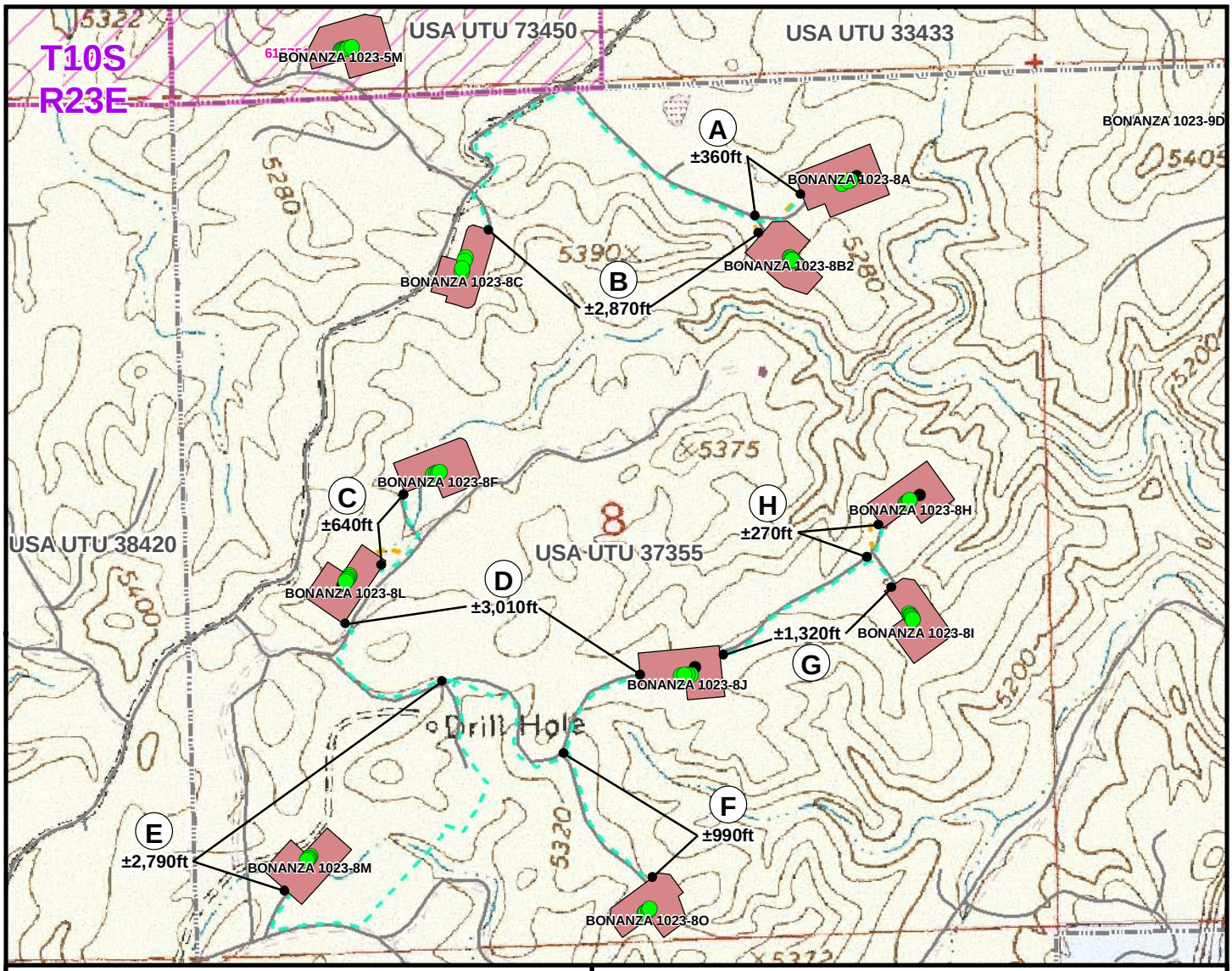
609 Consulting, LLC
371 Coffeen Avenue
Sheridan, WY 82801
(307) 674-0609

EXHIBIT B
LIQUID TRANSMISSION LINES LOCATED IN SECTION 8 T10S, R23E, S.L.B.&M. UINTAH COUNTY, UTAH

NAD83 USP-Cft | Scale: 1" = 1,000ft

Drawn by: JELo | Date: 25 June 2010
Revised: | Date:

'APIWellNo:43047511530000'



ACTS Pipeline	Length	CA
A	N/A	N/A
B	N/A	N/A
C	N/A	N/A
D	N/A	N/A
E	N/A	N/A
F	N/A	N/A
G	N/A	N/A
H	N/A	N/A

ACTS Pipeline	Length	Lease
A	360ft	USA UTU 37355
B	2,870ft	USA UTU 37355
C	640ft	USA UTU 37355
D	3,010ft	USA UTU 37355
E	2,790ft	USA UTU 37355
F	990ft	USA UTU 37355
G	1,320ft	USA UTU 37355
H	270ft	USA UTU 37355

Total Length of Each of Two Proposed Temporary 6" Aluminum ACTS Pipelines = ±12,250ft
(Measured to Edge of Pad)

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- CA Agreement
- Lease Boundary
- ACTS Pipeline - Proposed
- ACTS Pipeline - To Be Upgraded
- ACTS Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

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

EXHIBIT C
ANADARKO COMPLETION TRANSPORT SYSTEM
(ACTS) PIPELINE
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1" = 1,000ft	NAD83 USP Central	EXHIBIT
Drawn: CPS	Date: 22 June 2010	C
Revised:	Date:	

Kerr-McGee Oil & Gas Onshore LP

Bonanza 1023-8E2DS
Surface: 2,249’ FSL 968’ FWL (NW/4SW/4)
BHL: 1,927’ FNL 500’ FWL (SW/4NW/4)

Bonanza 1023-8E3DS
Surface: 2,241’ FSL 962’ FWL (NW/4SW/4)
BHL: 2,318’ FNL 448’ FWL (SW/4NW/4)

Bonanza 1023-8K1CS
Surface: 2,233’ FSL 956’ FWL (NW/4SW/4)
BHL: 2,125’ FSL 2,025’ FWL (NE/4SW/4)

Bonanza 1023-8K4CS
Surface: 2,225’ FSL 951’ FWL (NW/4SW/4)
BHL: 1,630’ FSL 2,125’ FWL (NE/4SW/4)

Bonanza 1023-8L3DS
Surface: 2,216’ FSL 945’ FWL (NW/4SW/4)
BHL: 1,644’ FSL 570’ FWL (NW/4SW/4)

Pad: Bonanza 1023-8L
Sec. 8 T10S R23E

Uintah County, Utah
Mineral Lease: UTU 37355

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 on April 14, 2010 showing the surface locations in NW/4 SW/4 of Section 8 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 May 18, 2010. Present were:

- Dave Gordon, Kevin Sadlier, Ryan Angus – BLM;
- John Slaugh and Mitch Batty- Timberline Engineering & Land Surveying, Inc.; and
- Roger Parry, Clay Einerson, Grizz Oleen, Sheila Wopsock and Brad Burman – 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.

A. 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.

B. Planned Access Roads:

See MDP for additional details on road construction.
Approximately 220' (±0.04 miles) of new access road as proposed is entirely on federal surface on lease UTU37355. 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 as applicable, are typically shown on attached Exhibits and Topo maps.

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

A) Refer to Topo Map C.

D. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

This pad will expand the existing pad for the Bonanza 1023-8L, which is a producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of July 1, 2010.

The following guidelines will apply if the well is productive.

Gas Gathering Pipeline:
Kerr-McGee requests that a new Right-of-Way (ROW) be issued for all gas gathering pipeline that is connecting the proposed well pad to the existing trunk line (currently permitted by Kerr-McGee covered by ROW UTU84808) as described herein.

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail. The total gas gathering pipeline distance from the edge of the well pad to the existing 16" pipeline is ±720' and the individual segments are broken up as follows when starting from the well pad:

±180' (0.1 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 8" buried gas pipeline from the meter to the edge of the pad (please refer to Topo D- Pad and Pipeline Detail).

±20' (0.2 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 8" buried gas pipeline from the edge of pad to the first tie in point (as shown on Exhibit A Line 4).

±190' (0.04 miles) – Section 8 T10S R23E (NW/4 SW/4)– On-lease UTU37355, BLM surface, New 8" buried gas pipeline from the first tie in point for this pad to the tie in

point to the south of this pad (as shown on Exhibit A Line 5). This portion of pipeline will be used concurrently with the Bonanza 1023-8F Pad.

±510' (0.1 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 12" buried gas pipeline is proposed from the tie in point to the south of this Pad to the existing 16"pipeline covered under ROW UTU84808 (as shown on Exhibit A Line 6). This portion of pipeline will be used concurrently with the following Bonanza well pads: Bonanza 1023-8H Pad, Bonanza 1023-8I Pad, Bonanza 1023-8J Pad, Bonanza 1023-8O Pad, Bonanza 1023-8M Pad, and the Bonanza 1023-8F Pad.

Gas Gathering Pipeline material: Steel line pipe with fusion bond epoxy coating.

Liquid Gathering Pipeline:
The liquid gathering lines will stay on lease and no additional ROW is needed.

Please refer to Exhibit B and Topo D- Pad and Pipeline Detail. The total liquid gathering pipeline distance from the edge of the well pad to the existing 6" liquid gathering pipeline is ±720' and the individual segments are broken up as follows when starting from the well pad:

±180' (0.14 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad (please refer to Topo D- Pad and Pipeline Detail).

±20' (0.01 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried high pressure liquid gathering pipeline is proposed from the edge of the pad to the tie in point adjacent to the south corner of this pad (as shown on Exhibit B Line 5H).

±190' (0.04 miles) – Section 8 T10S R23E (NW/4 SW/4)– On-lease UTU37355, BLM surface, New 6" buried high pressure liquid gathering pipeline from the proposed 20' portion of pipeline to the tie in point south of this pad (as shown on Exhibit B Line 6H).

±510' (0.1 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried high pressure liquid gathering pipeline is proposed from the tie in point to the south of the this pad to the existing 6"liquid gathering pipeline (as shown on Exhibit B Line 7H). The ROW for this 6"line was submitted in May of 2010 by Kerr-McGee.

.

Liquid Gathering Pipeline material: Flex Steel

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

The proposed trench width for the pipeline would range from 18-48 inch and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. The pipeline will be welded or zap locked along the proposed right-of-way and lowered into place. During construction blasting may occur along the proposed right-of-way when trenching equipment can not

cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically tested before being placed into service.

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

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

The Anadarko Completions Transportation System (ACTS) information is planned as follows:
See MDP for additional details on the ACTS System.

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

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

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to

transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

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

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

At the onsite meeting, Kerr-McGee agreed to the following:

- 2" of top soil needed
- Facilities will be painted shadow gray
- Maintain ponds and keep spoils pile out of ponds

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

Water for drilling purposes will be covered under the separate Biological Analysis (BA)/ Biological Opinion (BO) consultation process being conducted with the U.S. Fish and Wildlife Service (FWS).

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

No water well is to be drilled on this lease.

F. Source of Construction Materials:
See MDP for additional details on Source of Construction Materials.

G. 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 transported by pipeline and/or truck to one of the pre-approved disposal sites:

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

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:
See MDP for additional details on Ancillary Facilities.
Kerr-McGee anticipates using this pad to gather produced liquid from the wells in this section on this lease prior to sending the fluids to the main liquids gathering pipeline. The actual equipment to be installed and it's layout will be provided via sundry notice prior to it's installation.

I. 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.

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

The Reclamation Monitoring Reference Point will be taken care of by a Sundry Notice prior to any new surface disturbance activity for the pipeline and the well pad.

The Following Seed Mix is suggested for use during reclamation:

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

K. Surface/Mineral Ownership:

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

L. Other Information:

See MDP for additional details on Other Information.

A Class I literature survey was completed on April 19, 2010 by Montgomery Archaeological Consultants, Inc. (MOAC). For additional details please refer to report MOAC 09-183.

A paleontological reconnaissance survey was completed on May 11, 2010 by Intermountain Paleo-Consulting (IPC). For additional details please refer to report IPC-09-212.

The following biological field surveys were completed by Grasslands Consulting, Inc. For additional details please refer to report GCI-212:

- Well pad surveyed November 5, 2009
- Pipeline surveyed April 16, 2010
- Raptor survey conducted May 11, 2010.

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

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

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
Danielle Piernot

July 1, 2010
Date

'APIWellNo:43047511530000'

'APIWellNo:43047511530000'

INTERMOUNTAIN
PALEO-CONSULTING
Stephen D. Sandau *Paleontologist*

P. O. Box 1125
Vernal, UT. 84078
Phone & Fax (435) 789-7402
Cell: (801) 592-4328
E-mail: intermountainpaleo@yahoo.com

IPC #09-212

Paleontological Reconnaissance Block Survey Report

Block Section Survey of the SW Quarter of Section 8, Including Kerr McGee's Proposed "Bonanza #1023-8L, E2BS, E3DS, K1CS, K4CS & L3DS; #1023-8M, N2BS, M2AS, M2DS & N3DS; & #1023-8O, O3CS, P3CS, O4AS & P2CS" (Sec. 8, T 10 S, R 23 E)

Asphalt Wash
Topographic Quadrangle
Uintah County, Utah

May 11, 2010

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

' A P I W e l l N o : 4 3 0 4 7 5 1 1 5 3 0 0 0 0 '

Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237
(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #212

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: Bonanza 1023-8L Pad (Bores: Bonanza 1023-8E2DS, Bonanza 1023-8E3DS, Bonanza 1023-8K1CS, Bonanza 1023-8K4CS, and Bonanza 1023-8L3DS)

Pipeline: Associated pipeline leading to proposed well pad expansion

Access Road: Associated access road re-route leading to proposed well location

Location: Section 8, Township 10 South, Range 23 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*) and nesting raptors

Survey Date: Well pad surveyed November 5, 2009; pipeline surveyed April 16, 2010; raptor survey conducted May 11, 2010

Observers: Grasslands Consulting, Inc. Biologists: Dan Hamilton, Brad Snopek, Jennie Sinclair, Chris Fleisher, and multiple field technicians.

'APIWellNo:43047511530000'

CLASS I REVIEW OF KERR-MCGEE OIL & GAS ONSHORE LP'S 27 PROPOSED WELL LOCATIONS IN T10S, R23E, SECTION 8 (MOAC Report No. 09-183) UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

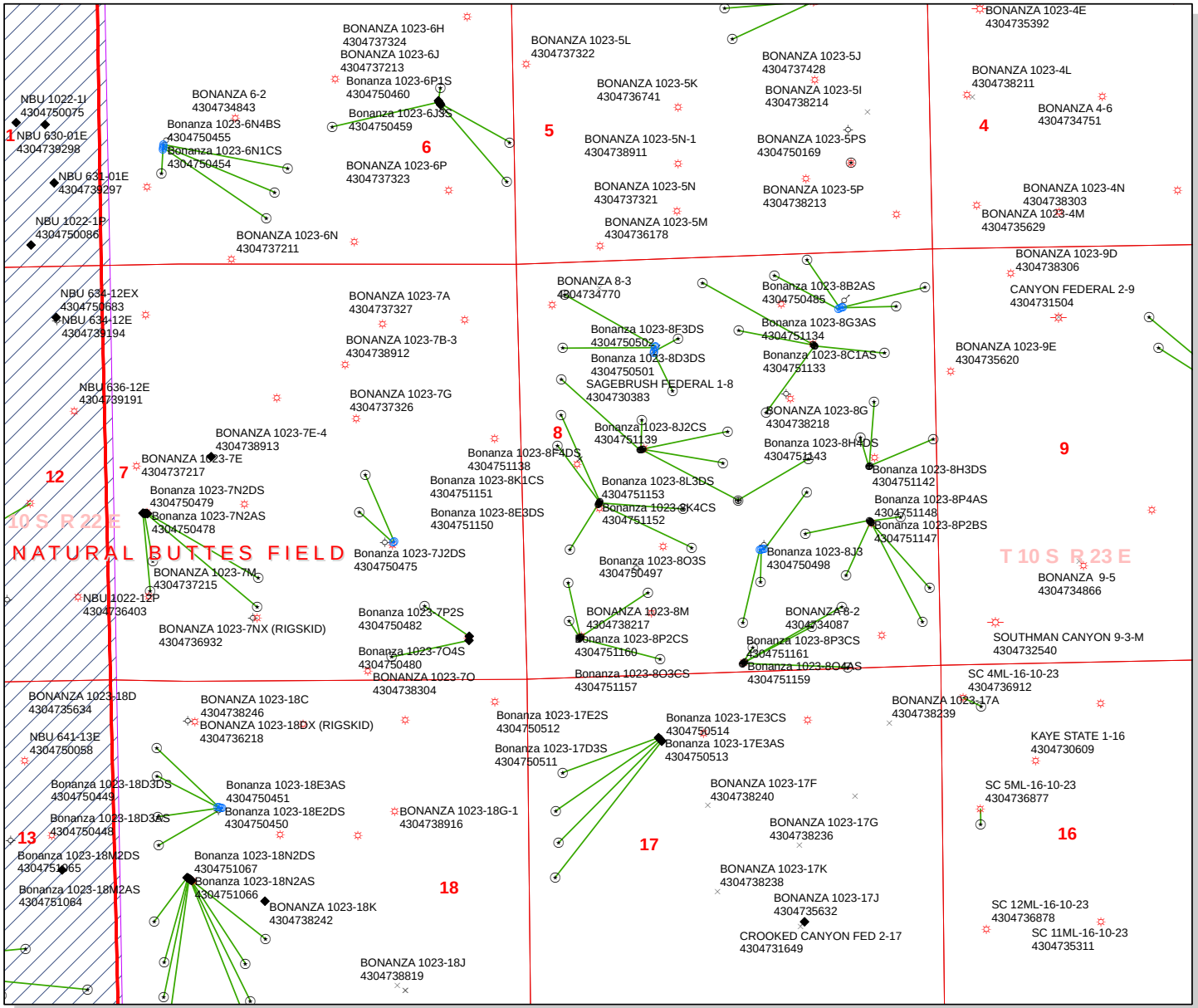
Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

April 19, 2010

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

'APIWellNo:4304751153000'



API Number: 4304751153

Well Name: Bonanza 1023-8L3DS

Township 10.0 S Range 23.0 E Section 8

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
- Sections
- Township

Wells Query
- <all other values>

Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,700 850 0 1,700 Feet

1:15,800

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/2/2010 **API NO. ASSIGNED:** 43047511530000

WELL NAME: Bonanza 1023-8L3DS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWSW 08 100S 230E **Permit Tech Review:** ✔

SURFACE: 2216 FSL 0945 FWL **Engineering Review:** ✔

BOTTOM: 1644 FSL 0570 FWL **Geology Review:** ✔

COUNTY: UINTAH

LATITUDE: 39.96214 **LONGITUDE:** -109.35616

UTM SURF EASTINGS: 640403.00 **NORTHINGS:** 4424639.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 37355 **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**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 179-14

Effective Date: 6/12/2008

Siting: 460' Fr Exterior Drl Unit Boundary

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

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

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Bonanza 1023-8L3DS
API Well Number: 43047511530000
Lease Number: UTU 37355
Surface Owner: FEDERAL
Approval Date: 7/20/2010

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

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

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

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

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

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

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

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

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

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

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

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

Approved By:

Acting Associate Director, Oil & Gas

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 07 2010

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU37355

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.
BONANZA 1023-8L3DS

2. Name of Operator
KERRMCGEE OIL&GAS ONSHORE LP
Contact: DANIELLE E PIERNOT
E-Mail: Danielle.Piernot@anadarko.com

9. API Well No.
43 047 51153

3a. Address
PO BOX 173779
DENVER, CO 80202-3779

3b. Phone No. (include area code)
Ph: 720-929-6156
Fx: 720-929-7156

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface NWSW 2216FSL 945FWL 39.96231 N Lat, 109.35674 W Lon

At proposed prod. zone NWSW 1644FSL 570FWL 39.96073 N Lat, 109.35807 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 8 T10S R23E Mer SLB

14. Distance in miles and direction from nearest town or post office*
APPROXIMATELY 52 MILES SOUTHEAST OF VERNAL, UTAH

12. County or Parish
UINTAH

13. State
UT

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

16. No. of Acres in Lease
1920.00

17. Spacing Unit dedicated to this well
320.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
APPROXIMATELY 651 FEET

19. Proposed Depth
8371 MD
8282 TVD

20. BLM/BIA Bond No. on file
WYB000291

21. Elevations (Show whether DF, KB, RT, GL, etc.
5300 GL

22. Approximate date work will start
08/02/2010

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
07/02/2010

Title
REGULATORY ANALYST I

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
MAY 27 2011

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

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

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)

UDOGM

Electronic Submission #89023 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 07/08/2010 ()

NOTICE OF APPROVAL
RECEIVED
JUN 06 2011
DIV. OF OIL, GAS & MINING

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

Additional Operator Remarks:

Existing well on pad: Bonanza 1023-8L
New wells on pad:
-Bonanza 1023-8E2DS
-Bonanza 1023-8E3DS
-Bonanza 1023-8K1CS
-Bonanza 1023-8K4CS
-Bonanza 1023-8L3DS

This APD serves as a Right of Way (ROW) request for the gas gathering pipeline.

The filing fee check for this well will be submitted separately via overnight delivery on 7/5/10.

Please contact Danielle Piernot at 720-929-6156, or via e-mail at danielle.piernot@anadarko.com with any questions and/or concerns regarding this APD.

Thank you for your assistance and time on this APD.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-440

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore, LP**	**Location:**	**NWSW, Sec. 8, T10S, R23E (S)** **NWSW, Sec. 8, T10S, R23E (B)**
Well No:	**Bonanza 1023-8L3DS**	**Lease No:**	**UTU-37355**
API No:	**43-047-51153**	**Agreement:**	**N/A**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project."

- The area of potential effect (APE) is defined as the current project area within the polygons. This Class I is exempt from SHPO consultation based on the #4 exemption is the h-8110 Handbook. The Class I literature review of Kerr-McGee Oil and Gas Onshore's 27 Well Locations resulted in the identification of two previously documented archaeological sites (42Un3411 and 42Un3524), which are both recommended "eligible" for the National Register of Historic Places (NRHP). Both sites are located more than 150 ft outside the current project area and must be avoided by the current undertaking.

- If, during operations, any paleontological resources as described in BLM h-8270-1 are discovered, all operations which will affect such sites will be suspended and the discovery reported promptly to the surface management agency.

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

- 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.

- Keep existing stock ponds.

- This project will be implemented on or after the sundry approval date. If the well has not been spudded by February 5, 2012 this sundry will expire and the operator is to cease all operations related to preparing to drill the well.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.

- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.

- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355

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 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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		
✓ NOTICE OF INTENT Approximate date work will start: 7/20/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: 06/20/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II

SIGNATURE	DATE
N/A	6/16/2011

RECEIVED Jun. 16, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047511530000

API: 43047511530000
Well Name: BONANZA 1023-8L3DS
Location: 2216 FSL 0945 FWL QTR NWSW SEC 08 TWNP 100S RNG 230E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 7/20/2010

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

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

Signature: Gina Becker **Date:** 6/16/2011
Title: Regulatory Analyst II **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Jun. 16, 2011

Federal Approval of this Action is Necessary

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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		
✓ NOTICE OF INTENT Approximate date work will start: 7/11/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator requests approval to change the surface hole size from 11" to 12 1/4". No other changes will be required.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 07/20/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II

SIGNATURE	DATE
N/A	7/11/2011

RECEIVED Jul. 11, 2011

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355

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 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 8/31/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD 28 SX READY MIX. SPUD WELL ON 08/31/2011 AT 0930 HRS.

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

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst

SIGNATURE	DATE
N/A	9/2/2011

RECEIVED Sep. 02, 2011

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCI Phone Number 435.781.7024
Well Name/Number BONANZA 1023-8L3DS
Qtr/Qtr NWSW Section 8 Township 10S Range 23E
Lease Serial Number UTU-37355
API Number 4304751153

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

Date/Time 08/31/2011 0800 HRS AM ☑ PM ☐

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

☑ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED
AUG 30 2011
DIV. OF OIL, GAS & MINING

Date/Time 09/22/2011 0800 HRS AM ☑ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

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

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355

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 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 9/9/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU AIR RIG ON SEPT 6, 2011. DRILLED SURFACE HOLE TO 2293'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

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

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		9/12/2011

RECEIVED Sep. 12, 2011

Federal Approval of this Action is Necessary

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355

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 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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		
✓ NOTICE OF INTENT Approximate date work will start: 9/21/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Closed Loop System

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

Kerr-McGee Oil & Gas Onshore, LP requests authorization to drill the above captioned well with a closed-loop mud system. Please see the attached Exhibit A. This sundry has been submitted on behalf of the Natural Buttes Unit. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 09/26/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II

SIGNATURE	DATE
N/A	9/21/2011

RECEIVED Sep. 21, 2011

Exhibit A

Kerr-McGee Oil and Gas Onshore, LP respectfully requests authorization to drill the above captioned well utilizing a closed-loop mud system.

The drilling pit was constructed per the requirements of the Application for Permit to Drill; therefore the liner will be temporarily removed from the pit, the pit will be partially backfilled, and liner will be re-set. All other aspects of the pit shall remain the same.

Equipment for the closed-loop system will be as follows:

- 2 HS-3400 Centrifuge
- 1 Conical Clarifying Tank
- 1 Polymer/Flocculation Unit
- 1 Catch Tank for Solids
- 1 4x3 Centrifugal Pump

Storage Tank Roll (6 frac tanks - 4 water, 2 mud):
- 1 4x3 Centrifugal Pump
- 1 Manifold
- 8 3-inch hose/20 foot section x qty 8 (estimate)
- 8 4-inch hose/20 foot section x qty 8 (estimate)

A 250 KW Generator (est. 20 gal/hr fuel rate) and a Power Distribution Panel will be utilized if deemed necessary.

RECEIVED Sep. 21, 2011

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355

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 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ☐ SUBSEQUENT REPORT
  Date of Work Completion:
- ☐ SPUD REPORT
  Date of Spud:
- ✓ DRILLING REPORT
  Report Date:
  9/30/2011

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU ROTARY RIG. FINISHED DRILLING FROM 2293' TO 8450' ON SEPT. 28, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 138 ON SEPT. 30, 2011 @ 18:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst

SIGNATURE	DATE
N/A	10/3/2011

RECEIVED Oct. 03, 2011

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address: 1368 SOUTH 1200 EAST

city VERNAL

state UT zip 84078

Phone Number: (435) 781-7024

Well 1 4304751153

API Number	Well Name		QQ	Sec	Twp	Rng	County
~~4304751553~~	BONANZA 1023-8L3DS		NWSW	8	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18197	8/31/2011			9/20/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 08/31/2011 AT 0930 HRS. BHL= NWSW

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751152	BONANZA 1023-8K4CS		NWSW	8	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18198	8/31/2011			9/20/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 08/31/2011 AT 1330 HRS. BHL= NESW

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751151	BONANZA 1023-8K1CS		NWSW	8	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18199	9/1/2011			9/20/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 09/01/2011 AT 0800 HRS BHL= NESW

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

SHEILA WOPSOCK
Name (Please Print)

Signature

REGULATORY ANALYST
Title

9/2/2011
Date

(5/2000)

RECEIVED
SEP 07 2011
DIV. OF OIL, GAS & MINING

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# ENSIGN 138
Submitted By BRAD PEDERSEN Phone Number 435-828-0982
Well Name/Number BONANZA 1023-8L3DS

Qtr/Qtr NW/SW Section 8 Township 10S Range 23E
Lease Serial Number UTU37355
API Number 43-047-51153

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

Date/Time _____ _____ AM ☐ PM ☐

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

☐ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED
SEP 2 2 2011
DIV. OF OIL, GAS & MINING

Date/Time ____ ___ AM ☐ PM ☐

BOPE

☒ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time 9/23/2011 23:00 AM ☐ PM ☒

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# ENSIGN 138
Submitted By DALTON KING Phone Number 435-828-0982
Well Name/Number BONANZA 1023-8L3DS
Qtr/Qtr NW/SW Section 8 Township 10S Range 23E
Lease Serial Number UTU37355
API Number 43-047-51153

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

Date/Time _____ _____ AM ☐ PM ☐

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

☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 9/29/2011 17:00 AM ☐ PM ☒

BOPE

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

RECEIVED
SEP 2 8 2011
DIV. OF OIL, GAS & MINING

Date/Time _____ _____ AM ☐ PM ☐

Remarks TIME IS ESTIMATED

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU 37355

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 1023-8L3DS

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

9. API NUMBER:
43047511530000

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:
2216 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSW Section: 08 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 12/13/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 12/13/2011 AT 1530 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst

SIGNATURE	DATE
N/A	12/15/2011

RECEIVED
FEB 01 2012
DIV. OF OIL, GAS & MINING

Form 3160-4
(August 2007)

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. UTU37355

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE LP
Contact: JAIME L. SCHARNOWSKE
E-Mail: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No. BONANZA 1023-8L3DS

3. Address PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6304

9. API Well No. 43-047-51153

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NWSW 2216FSL 945FWL 39.962306 N Lat, 109.356740 W Lon
At top prod interval reported below NWSW 1648FSL 557FWL
At total depth NWSW 1623FSL 572FWL

BHL by HSM

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 8 T10S R23E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 08/31/2011

15. Date T.D. Reached 09/28/2011

16. Date Completed ☐ D & A ☒ Ready to Prod. 12/13/2011

17. Elevations (DF, KB, RT, GL)* 5299 GL

18. Total Depth: MD 8450 TVD 8356

19. Plug Back T.D.: MD 8386 TVD 8296

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
HVCL-CPD-CDNL-AIR/SD/EL-CMPCT TRPLCMBO CBL/GR/CLRS

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	8.625 IJ-55	28.0	0	2273		1100		0	
7.875	4.500 I-80	11.6	0	8430		1418		4030	

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	5126							

25. Producing Intervals

Formation	Top	Bottom
A) WASATCH	5269	6190
B) MESAVERDE	6882	8303
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
5269 TO 6190	0.360	72	OPEN
6882 TO 8303	0.360	120	OPEN

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

Depth Interval	Amount and Type of Material
5269 TO 8303	PUMP 8,152 BBLS SLICK H2O & 180,928 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/13/2011	12/16/2011	24	→	0.0	1533.0	1000.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	2200	2500.0	→	0	1533	1000		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

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

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

ELECTRONIC SUBMISSION #129231 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

Formation	Top	Bottom	Descriptions, Contents, etc.

31. Formation (Log) Markers

Name	Top Meas. Depth
GREEN RIVER	1103
BIRD'S NEST	1374
MAHOGANY	1738
WASATCH	4164
MESAVERDE	6262

32. Additional remarks (include plugging procedure):
Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

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

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

Electronic Submission #129231 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

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

Signature (Electronic Submission) Date 01/25/2012

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

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: PROPETRO 12/12, ENSIGN 138/138
Event: DRILLING	Start Date: 6/20/2011	End Date: 9/30/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/6/2011	14:00 - 21:30	7.50	MIRU	01	A	P		MOVE RIG AND CAMPS 17 MILES WITH 3 J D FIELD SERVICE TRUCKS. MOVE RIG WITH ONLY 1 CDL DRIVER. RIG UP CAMPS W/ 2 MOUNTAIN WEST SWAMPERS. ENTIRE RIG ON LOCATION @ 21:30. RELEASE TRUCKS. (JD TRUCKS HAULED CAMPS, FRAC TANKS, PUMP , C-CANS, FUEL TANK. AND FORKLIFT.)
	21:30 - 0:00	2.50	MIRU	01	B	P		DRESS CONDUCTORS ON ALL 5 WELL'S. INSTALL DIVERTOR HEAD AND BOWIE LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK. SPOT IN CATWALKS AND PIPE RACKS. READY.
9/7/2011	0:00 - 2:30	2.50	MIRU	01	B	P		DRESS CONDUCTORS ON ALL 5 WELL'S. INSTALL DIVERTOR HEAD AND BOWIE LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK. AND PIPE RACKS. READY. RIG UP PIT PUMP. RIG UP PUMP. PRIME PUMP. INSPECT RIG.
	2:30 - 3:10	0.67	PRPSPD	01	B	P		HELD PRE-SPUD SAFETY MEETING. TALKED ABOUT PINCH POINTS, AND HOUSE KEEPING. P/U 8" 1.83 BEND .17 RPG MUD MOTOR (4TH RUN) (SN 8030). M/U QD507 12.25" BIT (1ST RUN) (SN 7017967). TRIP IN TO SPUD WELL 1 OF 5.
	3:10 - 4:45	1.58	DRLSUR	02	D	P		SPUD 09/07/2011 03:10. DRILL 12.25" HOLE 40'-210'. (170', 113'/HR) GPM 400. DH RPM 68 RPM=45, WOB 5-15K. PSI ON/OFF 700/500. UP/DOWN/ ROT 20/20/20 K. DRAG 0 K. CIRC RESERVE W. 8.3# WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
	4:45 - 5:30	0.75	DRLSUR	06	A	P		TRIP OUT. LAY DOWN 6" DRILL COLLARS. CHECK BIT AND MOTOR. SCRIBE MOTOR. P/U 8" DIRECTIONAL ASSEMBLY AND SCRIBE. INSTALL EM TOOL.
	5:30 - 7:00	1.50	MAINT	08	A	Z		REPLACE SWIVEL PACKING IN POWER HEAD
	7:00 - 8:00	1.00	DRLSUR	06	A	P		TRIP IN TO 210' TO DRILL AHEAD
	8:00 - 14:30	6.50	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 210'- 730' (520', 80'/HR) GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1100/800. UP/DOWN/ ROT 51/48/50 K. DRAG 1K. CIRC RESERVE W. 8.3# WATER.
	14:30 - 16:00	1.50	MAINT	08	A	Z		CIRCULATE FOR 15 MIN. PULL 60' OFF BOTTOM (TWO JOINT'S) HAD A WELDER FIX A CRACK FOUND ON THE DERRICK
	16:00 - 0:00	8.00	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 730'-1480' (750', 94'/HR) GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1300/1080. UP/DOWN/ ROT 65/49/58 K. DRAG 7K. CIRC RESERVE W. 8.3# WATER. LAST SURVEY 1427' INC-15.30 AZ-209.46
9/8/2011	0:00 - 4:30	4.50	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 1480'-1810' (330', 73'/HR) GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1520/1250. UP/DOWN/ ROT 78/55/68 K. DRAG 10K. CIRC RESERVE W. 8.3# WATER. LOST RETURNS @ 1630' PUT AIR ON THE HOLE @ 1800 CFM.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: PROPETRO 12/12, ENSIGN 138/138
Event: DRILLING	Start Date: 6/20/2011	End Date: 9/30/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:30 - 12:45	8.25	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 1810'-2293' (483', 59'/HR) TD @ 12:45 09/08/2011 GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1470/1307. UP/DOWN/ ROT 85/57/70 K. DRAG 15K. LOST RETURNS @ 1630' PUT AIR ON THE HOLE @ 1800 CFM. LAST SURVEY 2237' INC-20.10 AZ-210.48 34' LOW 4' RIGHT OF THE LINE
	12:45 - 15:00	2.25	DRLSUR	05	A	P		CIRCULATE AND CONDITION HOLE FOR CASING RUN
	15:00 - 18:30	3.50	DRLSUR	06	D	P		LDDS NO TIGHT WHILE LAYING DOWN DRILL STRING. LAY DOWN DIRECTIONAL TOOLS. PULL MOTOR AND BREAK BIT. LAY DOWN MOTOR.
	18:30 - 20:00	1.50	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U. CUT CONDUCTOR DOWN ON 2ND WELL. RETRIEVE ELEVATORS TO LAND CASING WITH.
	20:00 - 21:45	1.75	DRLSUR	12	C	P		HOLD SAFETY MEETING. RUN 53 JTS OF 8-5/8" 28# J-55 LTC CSG. LAND FLOAT SHOE @ 2262.74' KB. LAND BAFFLE PLATE @ 2180.08' KB. MADE FLOAT SHOE UP WITH THREAD LOCK. RAN 5 TOTAL CENTRALIZERS.
	21:45 - 22:37	0.87	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES, CEMENT HEAD, LOAD PLUG.
	22:37 - 0:00	1.38	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 130 BBLS OF WATER AHEAD. CATCH PSI. PUMP 20 BBLS OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61.4 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 137 BBLS OF H20. NO CIRC THROUGH OUT. LIFT PSI OF 110 PSI AT 7 BBL/MIN. BUMP PLUG HELD 700 PSI FOR 5 MIN. FLOAT HELD. PUMP (150 SX) 30.7 BBLS OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE. SHUT DOWN AND CLEAN TRUCK. NO CEMENT TO SURFACE.
9/9/2011	0:00 - 4:00	4.00	DRLSUR	12	E	P		WAIT 2 HRS AND PUMP PUMP (225 SX) 46 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 4% CALC. GOOD BLOW ON BACKSIDE AT END OF TOP OUT, BUT STILL NO CEMENT TO SURFACE.WAIT 2 HRS AND PUMP PUMP (225 SX) 46 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 4% CALC. GOOD BLOW ON BACKSIDE AT END OF TOP OUT, CEMENT DOWN 45'. SHUT DOWN AND CLEAN TRUCK. RIG DOWN CEMENT CREW. WILL TOP OUT CEMENT ON NEXT WELL CEMENT JOB. RELEASE RIG @ 04:00 09/09/2011
	4:00 - 4:00	0.00	DRLSUR	12	E	P		ON 9/11/2011 12:00 WE USED ANOTHER 200 SX TO TOP OUT WELL HAD 1 BBL OF CEMENT TO SURFACE
9/22/2011	12:00 - 0:00	12.00	RDMO	01	E	P		RDRT, FLOOR, PREP DERRICK & LAY DERRICK OVER, R/D PUMPS, PITS, FUEL, AIR HYDRAULICS, ELECTRICAL

US ROCKIES REGION

Operation Summary Report

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/23/2011	0:00 - 6:00	6.00	RDMO	01	E	P		RDRT, PUMPS, PITS, FLARE LINES, GAS BUSTER, ELECTRICAL & MISC
	6:00 - 15:30	9.50	RDMO	01	E	P		SAFETY MEETING W/ JONES TRUCKING, MOUNTAIN WEST, & RIG CREW, RDRT, LOAD OUT TRUCKS & MOVE RIG 1 MILE, SET IN RIG
	15:30 - 0:00	8.50	RDMO	01	B	P		RURT,ELECTRICAL,FUEL,WATER,AIR,HYDRAULICS, PUMPS, PITS, STRING BLOCKS, PREP DERRICK
9/24/2011	0:00 - 6:00	6.00	MIRU	01	B	P		RURT, PUMPS, PITS, MISC BACKYARD, PREP DERRICK
	6:00 - 18:00	12.00	MIRU	01	B	P		RURT, RAISE DERRICK, RIG UP FLOOR, RACKING BOARD, SET CAT WALK, SLIP ON DRILL LINE, HELP WELDERS WORK ON FLOW LINE & GAS BUSTER, SET IN PEAK ENERGY SOLIDS CONTROL EQUIP
	18:00 - 0:00	6.00	MIRU	01	B	P		RURT,R/U PEAK ENERGY EQUIP, HELP WELDERS W/ FLOWLINE, GAS BUSTER LINES & MISC WELDING ON MUD TANKS
9/25/2011	0:00 - 5:00	5.00	MIRU	01	B	P		RURT, ACCUMULATOR LINES, FLARE LINES, IGNITER, GERONIMO & MISC
	5:00 - 10:30	5.50	DRLPRO	15	A	P		S/M W/ A-1 TESTING, R/U & TEST BOP, FLOOR VALVES, UPPER & LOWER KELLY VALVES, INSIDE & OUT SIDE KILL LINE ,CHOKE & HCR VALVES, CHOKE MANIFOLD, PIPE & BLIND RAMS 250/5 MIN, 5000/ 10 MIN, ANNULAR 250/5 MIN, 2500/ 10 MIN, CASING TO 1500 F/ 30 MIN, R/D TESTER
	10:30 - 12:30	2.00	DRLPRO	14	A	P		CHANGE RING GASKET ON DRILLING HEAD
	12:30 - 13:00	0.50	DRLPRO	14	B	P		INSTALL WEAR BUSHING
	13:00 - 19:00	6.00	DRLPRO	06	A	P		P/U MDI 616 BIT, SDI .28 RPG/1.5 BEND MOTOR, DIR TOOLS ,ORIENT MWD & DP, TAG CEMENT @ 2182'
	19:00 - 20:00	1.00	DRLPRO	02	F	P		DRILL CEMENT ,F.E & OPEN HOLE F/ 2182' TO 2303'
	20:00 - 0:00	4.00	DRLPRO	02	D	P		DRILL, SLIDE & SURVEY F/ 2303' TO 2772' (469' @ 117.2' HR) WOB 15-18, RPM 50/151, GPM 540, SPM 120, ON/OFF 1900-1400, DIFF 500, TORQ 8/5, UP/SO/ROT 95-87-92, (DRILLED 382' 81.56% OF TIME, SLID 87' 18.44% OF TIMECLOSED LOOP ,WATER W/ GEL & POLY SWEEPS
9/26/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL ,SLIDE & SURVEY F/ 2772' TO 3477' (705' @ 117.5' HR) WOB 18, RPM 50/151, GPM 540, SPM 120, ON/OFF 1900-1400, DIFF 500, TORQ 8/5, UP/SO/ROT 95-87-92, WATER W/ GEL & POLY SWEEPS SLIDE 65' 1.09HR 59.6'/HR
	6:00 - 13:30	7.50	DRLPRO	02	D	P		DRILL/SLIDE 3477'-4403', 926' @ 123.5'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2090/1590 TORQUE 11/7 PU/SO/ROT 115/93/102 PEAK PIT AUGER IS DOWN NOT TO BE REPAIRED UNTIL AM WATER IS 8.9# SLIDE 80' 1.66 HR. 48.2'/HR
	13:30 - 14:00	0.50	MAINT	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DRILL/SLIDE 4403'-5664, 1261' @ 126.1'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2240/1770 TORQUE 12/8 PU/SO/ROT 137/96/115 PEAK PIT AUGER IS DOWN NOT TO BE REPAIRED UNTIL AM WATER IS 8.9# SLIDE 35' .25 HR 140'/HR
9/27/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/SLIDE 5664'-6294', 630' @ 105'/HR RPM: MM/151, ROT/50 18-20K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2240/1770 TORQUE 12/8 PU/SO/ROT 137/107/115 PEAK PIT AUGER IS DOWN NOT TO BE REPAIRED UNTIL AM WATER IS 8.9# SLIDE 40' .50 HR 80'/HR
	6:00 - 11:00	5.00	DRLPRO	02	D	P		DRILL/SLIDE 6294'-6704', 410' @ 82'/HR RPM: MM/151, ROT/50 18-20K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 23400/1880 TORQUE 12/8 PU/SO/ROT 137/107/115 PEAK PIT AUGER IS DOWN NOT TO BE REPAIRED UNTIL AM WATER IS 8.9# SLIDE 15' .42 HR 35.7'/HR
	11:00 - 11:30	0.50	MAINT	07	A	P		RIG SERVICE
	11:30 - 15:00	3.50	DRLPRO	02	D	P		DRILL/SLIDE 6704'-6995', 291' @ 83.1'/HR RPM: MM/151, ROT/50 18-20K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2360/1900 TORQUE 12/8 PU/SO/ROT 137/107/115 PEAK PIT AUGER IS DOWN NOT TO BE REPAIRED UNTIL AM WATER IS 8.8# SLIDE 42' .66 HR 63.6'/HR
	15:00 - 15:30	0.50	ALL	08	A	Z		REPAIR A MUD LINE LEAK
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL/SLIDE 6995'-7450', 455' @ 53.5'/HR RPM: MM/151, ROT/50 18-20K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2757/2412 TORQUE 12/9 PU/SO/ROT 185/143/163 MUD: 36/VIS, 9.8/MW SLIDE 50' 1.5 HR 33.3'/HR
9/28/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		DRILL/SLIDE 7450'-8122', 672' @ 58.4'/HR RPM: MM/151, ROT/50 18-20K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2999/2458 TORQUE 14/12 PU/SO/ROT 193/155/170 MUD: 38/VIS, 11.4/MW
	11:30 - 12:00	0.50	MAINT	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 16:30	4.50	MAINT	02	D	P		DRILL/SLIDE 8122'-8450', 328' @ 72.8'/HR RPM: MM/151, ROT/50 18-20K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2999/2458 TORQUE 14/12 PU/SO/ROT 195/157/171 MUD: 38/VIS, 11.4/MW
	16:30 - 18:00	1.50	DRLPRO	05	C	P		CIRC./COND. FOR WIPER TRIP
	18:00 - 0:00	6.00	DRLPRO	06	E	P		MADE A WIPER TRIP TO THE CASING SHOE TO CONDITON THE HOLE FOR LOGS.
9/29/2011	0:00 - 3:00	3.00	EVALPR	06	E	P		TIH ON THE WIPER TRIP. FILLED THE HOLE @ THE SHOE AND 5000'
	3:00 - 3:30	0.50	MAINT	07	C	S		REPLACED A BAD HOSE ON THE IRON ROUGHNECK
	3:30 - 4:30	1.00	DRLPRO	06	E	P		TIH TO BOTTOM, NO FILL
	4:30 - 6:30	2.00	DRLPRO	05	C	P		CIRC. AND CONDITIONED THE HOLE FOR LOGS. NO FLARE
	6:30 - 13:00	6.50	DRLPRO	06	B	P		TOH F/ LOGS. PULLED THE MWD TOOL, LD THE MUD MOTOR
	13:00 - 13:30	0.50	ALL	21	E	S		WE HAD TO WAIT ON WEATHERFORD LOGGERS. BAKER ATLAS CANCELED ON THE LAST CALL AND WE HAD TO FIND ANOTHER LOGGING CREW
	13:30 - 14:00	0.50	EVALPR	11	D	P		HELD A S/M AND RIGGED UP WEATHERFORD TO LOG.
	14:00 - 19:00	5.00	ALL	21	D	S		WEATHERFORD FORGOT TO BRING THE SOURCE. WAITING FOR IT TO BE BROUGHT UP FROM GRAND JUNCTION.
	19:00 - 23:30	4.50	EVALPR	11	D	P		RAN TRIPLE COMBO LOG. DRILLERS TD 8450' LOGGERS TD 8448' RD THE LOGGING TRUCK
	23:30 - 0:00	0.50	DRLPRO	14	B	P		PULL THE WEAR BUSHING
9/30/2011	0:00 - 11:00	11.00	CSG	12	C	P		HELD A S/M WITH FRANKS WESTATE. R/U AND RAN 201 JOINTS + 2 MARKERS OF 4.5"/11.6# / I-80 / BTC CASING. LANDED @ 8430', FC @ 8384.8, MARKERS @ 4124' & 6241'. HAD A 3RD PARTY WITNESS THE WHOLE CASING RUN.
	11:00 - 12:00	1.00	CSG	05	D	P		CIRC. THE CASING W/ 87 STKS, 390 GPM, 790 PSI. WE HAD A 12' BOTTOMS UP FLARE W/ 11.5# MUD AND 38 VIS.
	12:00 - 14:00	2.00	CSG	12	E	P		PUMPED 5 BBL 8.34 SPACER WATER, 20 SX,10.6#, 3.77 YIELD SCAVENGER CEMENT , 348 SX 11.6#, 2.62 YIELD LEAD CEMENT , 1070 SX 14.3# 1.31 YLD. TAIL CMT., DISPLACED W/ 130 BBLS WATER , FINAL LIFT2400 PSI, BUMPED BLUG @ 2900 PSI , FLOATS HELD, 50 BBLS LEAD CEMENT BACK TO PIT , GOOD RETURNS THROUGHOUT JOB TOP OF TAIL EST @ 3500 ' , R/D CEMENTERS,
	14:00 - 15:00	1.00	CSG	14	A	P		ND THE BOP AND SET SLIPS. SET 90K ON THE C-22 SLIPS.
	15:00 - 18:00	3.00	CSG	01	E	P		CLEANED PITS AND PREPPED THE RIG TO SKID. RIG RELEASED @ 18:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-8L3DS RED	**Wellbore No.**	OH
Well Name	BONANZA 1023-8L3DS	**Wellbore Name**	BONANZA 1023-8L3DS
Report No.	1	**Report Date**	11/18/2011
Project	UTAH-UINTAH	**Site**	BONANZA 1023-8L PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	11/18/2011	**End Date**	12/13/2011
Spud Date	9/7/2011	**Active Datum**	RKB @5,313.00usft (above Mean Sea Level)
UWI	NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0		

1.3 General

Contractor	CASED HOLE SOLUTIONS	**Job Method**	PERFORATE	**Supervisor**	KENNY WARREN
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	5,269.0 (usft)-8,303.0 (usft	**Start Date/Time**	11/21/2011 12:00AM
No. of Intervals	26	**End Date/Time**	11/21/2011 12:00AM
Total Shots	0	**Net Perforation Interval**	48.00 (usft)
Avg Shot Density	0.00 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/21/2011 12:00AM	WASATCH/			5,269.0	5,275.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/21/2011 12:00AM	WASATCH/			5,732.0	5,735.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	WASATCH/			5,801.0	5,804.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	WASATCH/			6,076.0	6,078.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	WASATCH/			6,186.0	6,190.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			6,882.0	6,883.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			6,946.0	6,947.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,136.0	7,140.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,249.0	7,250.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,270.0	7,271.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,291.0	7,292.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,358.0	7,359.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,409.0	7,410.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,420.0	7,421.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,590.0	7,591.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/21/2011 12:00AM	MESAVERDE/			7,606.0	7,607.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,629.0	7,632.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,646.0	7,647.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,860.0	7,862.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			7,986.0	7,988.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			8,094.0	8,096.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			8,157.0	8,158.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			8,200.0	8,202.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			8,254.0	8,255.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			8,289.0	8,290.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/21/2011 12:00AM	MESAVERDE/			8,302.0	8,303.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/18/2011	End Date: 12/13/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/17/2011	8:45 - 9:00	0.25	COMP	48		P		HELD SAFETY MEETING: PRESSURE SIGNS
	9:00 - 11:00	2.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 13 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 38 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 120 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 64 PSI. NO COMMUNICATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFW
11/28/2011	7:00 - 17:00	10.00	COMP	36	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 1)WHP 450 PSI, BRK 3856 PSI @ 4.7 BPM. ISIP 2371 PSI, FG .73 CALC HOLES OPEN @ 50.6 BPM @ 4503 PSI = 100% HOLES OPEN. ISIP 2316 PSI, FG .72, NPI -55 PSI. MP 5847 PSI, MR 52.9 BPM, AP 4503 PSI, AR 50.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8126' P/U PERF AS PER PERF DESIGN. POOH SWIFN
11/29/2011	6:45 - 7:00	0.25	COMP	48		P		HELD SAFETY : PHYSICAL EXHAUSTION AWARENESS

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/18/2011	End Date: 12/13/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:00	10.00	COMP	36	B	P		FRAC STG 2)WHP 1860 PSI, BRK 3123 PSI @ 4.4 BPM. ISIP 2133 PSI, FG .71 CALC HOLES OPEN @ 49.1 BPM @ 4353 PSI = 100% HOLES OPEN. ISIP 2402 PSI, FG .74, NPI 269 PSI. MP 6241 PSI, MR 51.8 BPM, AP 4413 PSI, AR 49.0 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L FRAC STG 3)WHP 800 PSI, BRK 2817 PSI @ 4.3 BPM. ISIP 1241PSI, FG .60. CALC HOLES OPEN @ 50.5 BPM @ 4311 PSI = 87% HOLES OPEN. ISIP 2263 PSI, FG .74, NPI 1022 PSI. MP 4787 PSI, MR 51.4 BPM, AP 4120 PSI, AR 50.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7451' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 600 PSI, BRK 2542 PSI @ 4.0 BPM. ISIP 1063 PSI, FG .58 CALC HOLES OPEN @ 50.3 BPM @ 3737 PSI = 96% HOLES OPEN. ISIP 2015 PSI, FG .71, NPI 952 PSI. MP 4480 PSI, MR 51.5 BPM, AP 3636 PSI, AR 50.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7170' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 555 PSI, BRK 2201 PSI @ 3.9BPM. ISIP 1346 PSI, FG .63. CALC HOLES OPEN @ 50.6 BPM @ 3463 PSI = 100% HOLES OPEN. ISIP 1957 PSI, FG .72, NPI 611 PSI. MP 4355 PSI, MR 51.6 BPM, AP 3543 PSI, AR 50.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6220' P/U PERF AS PER PERF DESIGN. POOH. SWIFN

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/18/2011	End Date: 12/13/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/30/2011	7:00 - 17:00	10.00	COMP	36	B	P		FRAC STG 6)WHP 94 PSI, BRK 1994 PSI @ 4.0 BPM. ISIP 820 PSI, FG .57. CALC HOLES OPEN @ 50.1 BPM @ 4723 PSI = 68% HOLES OPEN. ISIP 1529 PSI, FG .69, NPI 709 PSI. MP 4818 PSI, MR 51.2 BPM, AP 3818 PSI, AR 50.0 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5834' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 7)WHP 320 PSI, BRK 2134 PSI @ 3.4 BPM. ISIP 1193 PSI, FG .65 CALC HOLES OPEN @ 50.6 BPM @ 3398 PSI = 100% HOLES OPEN. ISIP 1662 PSI, FG .73, NPI 469 PSI. MP 4073 PSI, MR 51.7 BPM, AP 3223 PSI, AR 50.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5305' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 8)WHP 365 PSI, BRK 1180 PSI @ 9.8 BPM. ISIP 888 PSI, FG .61. CALC HOLES OPEN @ 51.0 BPM @ 3746 PSI = 84% HOLES OPEN. ISIP 1645 PSI, FG .75, NPI 757 PSI. MP 3896 PSI, MR 51.4 BPM, AP 3256 PSI, AR 50.9 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PU 4 1/2 8K HAL CBP RIH SET CBP @ 5219' POOH. SWI TOTAL SAND = 180,928 # TOTAL TOTAL CLFL = 8,152 BBLS
12/12/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, RIGGING UP & DOWN, P/U TBG

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/18/2011	End Date: 12/13/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	31	I	P		RD OFF BON 1023-8K1CS, RU, SPOT EQUIP, N/D WH, N/U 5K BOP, R/U FLOOR & TBG EQUIP, R/U HAL 9000 & FLOWLINE TO PIT, SPOT TBG TRAILER, P/U TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT TBG TO KILL PLUG, R/U P/S, FILL TBG, BREAK CIRC, PRESS TEST BOP TO 3,000 PSI FOR 15 MIN, LOST 0 PSI, SURFACE CSG VALVE OPEN & LOCKED, START DRLG PLUGS. C/O 15' SAND, TAG 1ST PLUG @ 5,219' DRL PLUG IN 9 MIN. 0 PSI INCREASE (NO KICK LOST CIRC) RIH, CSG PRESS 0 PSI. WELL NOT FLOWING. C/O 20' SAND, TAG 2ND PLUG @ 5,305' DRL PLUG IN 10 MIN. 0 PSI INCREASE (NO KICK) RIH, CSG PRESS 50 PSI. WELL FLOWING. C/O 20' SAND, TAG 3RD PLUG @ 5,834' DRL PLUG IN 9 MIN. 0 PSI INCREASE (NO KICK), CSG PRESS 50 PSI. WELL FLOWING. CIRC & LET WELL CLEAN UP FOR 30 MIN, DRAIN UP & WINTERIZE EQUIP, SWI, SDFN.
12/13/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, WATCH YOUR STEP IN THE SNOW SLICK SURFACE'S

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/18/2011	End Date: 12/13/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 -		COMP	44	C	P		SICP 1,100 PSI, OPEN WELL BLEED OFF PRESS, OPEN RAMS, WELL BLEW DEAD THEN STARTED UNLOADING FLUID NOT MUCH GAS, RIH TO FINISH D/O REMAINING 5 PLUGS, SURFACE CSG VALVE OPEN & LOCKED. C/O 20' SAND, TAG 4TH PLUG @ 6,220' DRL PLUG IN 10 MIN. 0 PSI INCREASE (NO KICK) RIH, CSG PRESS 100 PSI. C/O 30' SAND, TAG 5TH PLUG @ 7,170' DRL PLUG IN 9 MIN. 0 PSI INCREASE (NO KICK) RIH, CSG PRESS 100 PSI. C/O 30' SAND, TAG 6TH PLUG @ 7,451' DRL PLUG IN 8 MIN. 0 PSI INCREASE (NO KICK) RIH, CSG PRESS 200 PSI. C/O 25' SAND, TAG 7TH PLUG @ 7,677' DRL PLUG IN 10 MIN. 0 PSI INCREASE (NO KICK) RIH, CSG PRESS 200 PSI. C/O 25' SAND, TAG 8TH PLUG @ 8,126' DRL PLUG IN 9 MIN. 800 PSI INCREASE RIH, CSG PRESS 250 PSI. PBTD @ 8,385', BTM PERF @ 8,303', RIH TAGGED @ 8,340', C/O TO 8,385, 82' PAST BTM PERF W/ 264 JTS 2 3/8" L-80 TBG, LD 103 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 161 JTS 2 3/8" L-80, EOT 5,125.51', WELL STRUGGLING ENGINEERS WANT TO RUN PRODUCTION LOG. RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,800 PSI, LET BIT FALL FOR 30 MIN. P/T FLOWLINE FROM WH TO HAL 9000 STARTING PRESS 2,788 PSI ENDING PRESS 2,681, LOST 107 PSI, NO VISIBLE LEAKS. TURN OVER TO FLOW BACK CREW, RD & MOVE TO NEXT WELL ON PAD. KB= 14' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 283 JTS 161 JTS 2 3/8" L-80 = 5,108.48' TBG USED 161 JTS POBS= 2.20' TBG KEPT ON LOCATION 122 JTS EOT @ 5,125.51' TWTR= 8,152 BBLS TWR= 1,500 BBLS TWLTR= 6,652 BBLS

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8L3DS RED	Spud Conductor: 8/31/2011	Spud Date: 9/7/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/18/2011	End Date: 12/13/2011
Active Datum: RKB @5,313.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/945/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:30 - 15:30	0.00	PROD	50				WELL TURNED TO SALES @15:30 HR ON 12/13/11 - 2100MCFD, 1440BWPD, SICP 1400#, FTP 1000#, CK 20/60'

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023-8L3DS RED	**Wellbore No.**	OH
Well Name	BONANZA 1023-8L3DS	**Common Name**	BONANZA 1023-8L3DS
Project	UTAH-UINTAH	**Site**	BONANZA 1023-8L PAD
Vertical Section Azimuth	213.06 (°)	**North Reference**	True
Origin N/S		**Origin E/W**	
Spud Date	9/7/2011	**UWI**	NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2216/W/0/94 5/0/0
Active Datum	RKB @5,313.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	**Company**	APC
Started	9/7/2011	**Ended**	
Tool Name		**Engineer**	Anadarko

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
10.00	0.00	0.00	10.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/7/2011	Tie On	10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/2011	NORMAL	189.00	0.78	108.74	188.99	-0.39	1.15	-0.30	0.44	0.44	0.00	108.74
	NORMAL	273.00	0.53	86.74	272.99	-0.55	2.08	-0.67	0.42	-0.30	-26.19	-145.47
	NORMAL	357.00	0.79	351.65	356.99	0.04	2.39	-1.34	1.18	0.31	-113.20	-127.33
	NORMAL	447.00	1.93	307.17	446.96	1.57	1.09	-1.91	1.64	1.27	-49.42	-66.53
	NORMAL	537.00	3.69	295.22	536.85	3.72	-2.74	-1.62	2.05	1.96	-13.28	-24.44
	NORMAL	627.00	4.97	284.28	626.59	5.92	-9.14	0.03	1.69	1.42	-12.16	-38.37
	NORMAL	717.00	5.54	269.54	716.22	6.84	-17.26	3.68	1.62	0.63	-16.38	-74.56
	NORMAL	807.00	6.22	257.70	805.75	5.77	-26.37	9.55	1.54	0.76	-13.16	-66.70
	NORMAL	897.00	6.76	246.00	895.17	2.58	-35.97	17.46	1.58	0.60	-13.00	-73.67
	NORMAL	987.00	7.52	235.32	984.48	-2.93	-45.65	27.36	1.70	0.84	-11.87	-65.58
	NORMAL	1,077.00	8.87	226.26	1,073.56	-11.08	-55.51	39.57	2.07	1.50	-10.07	-48.27
	NORMAL	1,167.00	10.36	216.85	1,162.30	-22.35	-65.38	54.40	2.40	1.66	-10.46	-51.23
	NORMAL	1,257.00	12.26	211.84	1,250.55	-36.95	-75.27	72.03	2.37	2.11	-5.57	-29.82
	NORMAL	1,347.00	14.92	209.52	1,338.02	-55.15	-86.03	93.15	3.02	2.96	-2.58	-12.71
	NORMAL	1,437.00	15.30	209.46	1,424.91	-75.57	-97.57	116.57	0.42	0.42	-0.07	-2.39
9/8/2011	NORMAL	1,527.00	17.44	212.38	1,511.26	-97.30	-110.64	141.91	2.55	2.38	3.24	22.44
	NORMAL	1,617.00	19.63	213.82	1,596.59	-121.26	-126.28	170.51	2.49	2.43	1.60	12.49

2.1.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/8/2011	NORMAL	1,707.00	19.97	211.86	1,681.27	-146.87	-142.80	200.99	0.83	0.38	-2.18	-63.81
	NORMAL	1,797.00	20.88	211.30	1,765.61	-173.63	-159.25	232.39	1.03	1.01	-0.62	-12.38
	NORMAL	1,887.00	21.08	210.61	1,849.64	-201.26	-175.82	264.59	0.35	0.22	-0.77	-51.33
	NORMAL	1,977.00	20.50	209.60	1,933.78	-228.89	-191.85	296.49	0.76	-0.64	-1.12	-148.75
	NORMAL	2,067.00	20.66	209.43	2,018.04	-256.42	-207.43	328.07	0.19	0.18	-0.19	-20.56
	NORMAL	2,157.00	20.19	209.43	2,102.38	-283.78	-222.87	359.41	0.52	-0.52	0.00	180.00
	NORMAL	2,247.00	20.10	210.48	2,186.87	-310.63	-238.34	390.36	0.41	-0.10	1.17	104.47

2.2 Survey Name: Survey #2

Survey Name	Survey #2	**Company**	SCIENTIFIC
Started	9/25/2011	**Ended**	
Tool Name	MWD	**Engineer**	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,247.00	20.10	210.48	2,186.87	-310.63	-238.34

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/25/2011	Tie On	2,247.00	20.10	210.48	2,186.87	-310.63	-238.34	390.36	0.00	0.00	0.00	0.00
9/25/2011	NORMAL	2,339.00	18.77	208.37	2,273.63	-337.28	-253.40	420.91	1.63	-1.45	-2.29	206.84
	NORMAL	2,433.00	17.62	206.64	2,362.93	-363.31	-266.96	450.12	1.35	-1.22	-1.84	204.34
	NORMAL	2,528.00	16.36	211.01	2,453.79	-387.63	-280.30	477.78	1.89	-1.33	4.60	136.69
	NORMAL	2,622.00	16.00	213.73	2,544.06	-409.75	-294.32	503.97	0.89	-0.38	2.89	116.71
	NORMAL	2,717.00	16.09	210.39	2,635.36	-431.99	-308.25	530.21	0.98	0.09	-3.52	273.96
	NORMAL	2,780.00	15.15	208.57	2,696.04	-446.76	-316.60	547.14	1.68	-1.49	-2.89	206.66
	NORMAL	2,875.00	12.84	211.18	2,788.21	-466.69	-328.00	570.07	2.52	-2.43	2.75	165.98
	NORMAL	2,969.00	10.93	210.06	2,880.19	-483.34	-337.88	589.41	2.05	-2.03	-1.19	186.34
	NORMAL	3,064.00	8.42	207.66	2,973.84	-497.30	-345.62	605.33	2.68	-2.64	-2.53	187.95
	NORMAL	3,128.00	7.74	214.70	3,037.20	-504.99	-350.25	614.30	1.87	-1.06	11.00	127.95
	NORMAL	3,253.00	6.86	210.13	3,161.19	-518.37	-358.79	630.17	0.84	-0.70	-3.66	211.17
9/26/2011	NORMAL	3,348.00	6.33	206.51	3,255.56	-527.97	-363.97	641.04	0.71	-0.56	-3.81	216.32
	NORMAL	3,442.00	4.48	201.69	3,349.14	-536.01	-367.64	649.79	2.02	-1.97	-5.13	191.40
	NORMAL	3,537.00	3.52	214.09	3,443.91	-541.88	-370.65	656.34	1.35	-1.01	13.05	144.05
	NORMAL	3,631.00	2.73	231.16	3,537.77	-545.67	-374.01	661.36	1.29	-0.84	18.16	138.64
	NORMAL	3,726.00	2.29	223.05	3,632.68	-548.48	-377.07	665.37	0.59	-0.46	-8.54	214.91
	NORMAL	3,820.00	2.11	208.20	3,726.61	-551.37	-379.17	668.95	0.63	-0.19	-15.80	245.15
	NORMAL	3,915.00	1.37	265.30	3,821.57	-553.01	-381.12	671.39	1.88	-0.78	60.11	139.89
	NORMAL	4,009.00	1.14	247.40	3,915.55	-553.46	-383.11	672.85	0.48	-0.24	-19.04	230.86
	NORMAL	4,104.00	1.37	201.97	4,010.53	-554.88	-384.41	674.74	1.04	0.24	-47.82	259.64
	NORMAL	4,199.00	1.06	246.52	4,105.51	-556.28	-385.64	676.59	1.02	-0.33	46.89	129.57
	NORMAL	4,293.00	0.88	245.20	4,199.49	-556.93	-387.09	677.93	0.19	-0.19	-1.40	186.42
	NORMAL	4,388.00	0.62	230.61	4,294.49	-557.56	-388.15	679.03	0.34	-0.27	-15.36	209.15
	NORMAL	4,482.00	0.53	176.12	4,388.48	-558.32	-388.51	679.87	0.57	-0.10	-57.97	234.11
	NORMAL	4,577.00	0.40	215.49	4,483.48	-559.03	-388.68	680.55	0.35	-0.14	41.44	131.03
	NORMAL	4,671.00	0.62	186.93	4,577.48	-559.80	-388.93	681.33	0.35	0.23	-30.38	296.00
	NORMAL	4,766.00	0.53	211.18	4,672.47	-560.68	-389.22	682.23	0.27	-0.09	25.53	122.14
	NORMAL	4,860.00	0.70	178.05	4,766.47	-561.63	-389.42	683.14	0.41	0.18	-35.24	278.36
	NORMAL	4,955.00	1.10	178.34	4,861.45	-563.12	-389.38	684.36	0.42	0.42	0.31	0.80

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/26/2011	NORMAL	5,050.00	1.15	189.24	4,956.44	-564.97	-389.50	685.99	0.23	0.05	11.47	82.34
	NORMAL	5,144.00	0.50	91.78	5,050.43	-565.92	-389.24	686.64	1.40	-0.69	-103.68	202.20
	NORMAL	5,239.00	0.93	141.68	5,145.42	-566.54	-388.35	686.67	0.76	0.45	52.53	82.07
	NORMAL	5,333.00	0.26	24.86	5,239.42	-566.94	-387.79	686.70	1.14	-0.71	-124.28	192.49
	NORMAL	5,428.00	0.13	254.46	5,334.42	-566.77	-387.80	686.57	0.38	-0.14	-137.26	196.04
	NORMAL	5,522.00	0.30	199.06	5,428.42	-567.04	-387.99	686.88	0.27	0.18	-58.94	279.28
	NORMAL	5,617.00	0.62	192.73	5,523.41	-567.77	-388.18	687.61	0.34	0.34	-6.66	347.80
9/27/2011	NORMAL	5,712.00	1.14	175.06	5,618.40	-569.21	-388.21	688.83	0.61	0.55	-18.60	323.42
	NORMAL	5,806.00	0.75	260.10	5,712.39	-570.25	-388.74	689.99	1.39	-0.41	90.47	145.20
	NORMAL	5,901.00	1.06	38.83	5,807.39	-569.67	-388.80	689.54	1.79	0.33	146.03	155.67
	NORMAL	5,995.00	0.61	48.83	5,901.38	-568.67	-387.88	688.19	0.50	-0.48	10.64	167.01
	NORMAL	6,090.00	0.57	51.26	5,996.37	-568.04	-387.13	687.26	0.05	-0.04	2.56	149.18
	NORMAL	6,184.00	0.70	64.41	6,090.37	-567.50	-386.25	686.32	0.21	0.14	13.99	54.97
	NORMAL	6,279.00	0.18	67.48	6,185.36	-567.19	-385.58	685.70	0.55	-0.55	3.23	178.94
	NORMAL	6,373.00	0.27	134.59	6,279.36	-567.29	-385.29	685.63	0.28	0.10	71.39	106.77
	NORMAL	6,468.00	0.66	178.61	6,374.36	-567.99	-385.12	686.12	0.53	0.41	46.34	65.96
	NORMAL	6,563.00	0.92	171.19	6,469.35	-569.29	-384.99	687.14	0.29	0.27	-7.81	334.78
	NORMAL	6,657.00	1.57	133.65	6,563.33	-570.93	-383.94	687.94	1.07	0.69	-39.94	288.76
	NORMAL	6,752.00	1.41	67.04	6,658.30	-571.37	-381.92	687.21	1.73	-0.17	-70.12	232.03
	NORMAL	6,846.00	1.67	50.34	6,752.27	-570.05	-379.80	684.94	0.55	0.28	-17.77	291.56
	NORMAL	6,941.00	1.67	56.67	6,847.23	-568.40	-377.58	682.35	0.19	0.00	6.66	93.16
	NORMAL	7,035.00	0.62	20.64	6,941.21	-567.17	-376.26	680.60	1.30	-1.12	-38.33	197.33
	NORMAL	7,130.00	1.67	342.58	7,036.19	-565.37	-376.49	679.22	1.31	1.11	-40.06	304.02
	NORMAL	7,225.00	1.06	297.49	7,131.17	-563.65	-377.68	678.42	1.25	-0.64	-47.46	219.17
	NORMAL	7,319.00	0.88	294.15	7,225.15	-562.95	-379.11	678.62	0.20	-0.19	-3.55	195.77
9/28/2011	NORMAL	7,414.00	0.62	297.67	7,320.15	-562.41	-380.23	678.78	0.28	-0.27	3.71	171.71
	NORMAL	7,508.00	0.88	232.10	7,414.14	-562.62	-381.25	679.51	0.89	0.28	-69.76	252.28
	NORMAL	7,603.00	1.06	207.84	7,509.13	-563.84	-382.24	681.08	0.47	0.19	-25.54	281.22
	NORMAL	7,697.00	1.76	190.18	7,603.10	-566.03	-382.90	683.27	0.87	0.74	-18.79	319.14
	NORMAL	7,792.00	1.67	188.33	7,698.05	-568.84	-383.36	685.87	0.11	-0.09	-1.95	210.68
	NORMAL	7,886.00	1.93	178.75	7,792.01	-571.78	-383.52	688.42	0.42	0.28	-10.19	305.97
	NORMAL	7,981.00	2.20	164.08	7,886.95	-575.13	-382.99	690.94	0.62	0.28	-15.44	289.60
	NORMAL	8,075.00	2.44	156.40	7,980.87	-578.70	-381.69	693.23	0.42	0.26	-8.17	303.79
	NORMAL	8,170.00	2.20	151.07	8,075.79	-582.15	-380.00	695.19	0.34	-0.25	-5.61	219.31
	NORMAL	8,264.00	2.64	154.06	8,169.71	-585.67	-378.18	697.16	0.49	0.47	3.18	17.51
	NORMAL	8,359.00	2.81	146.76	8,264.60	-589.59	-375.95	699.22	0.41	0.18	-7.68	292.42
	NORMAL	8,403.00	2.73	144.65	8,308.55	-591.34	-374.75	700.04	0.29	-0.18	-4.80	230.83
	NORMAL	8,450.00	2.73	144.65	8,355.50	-593.17	-373.46	700.86	0.00	0.00	0.00	0.00

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address: P.O. Box 173779

city DENVER

state CO zip 80217

Phone Number: (720) 929-6029

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				5/1/2012	

Comments: Please see attachment with list of Wells in the Ponderosa Unit. 5/30/2012

WSMVD

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)

Cara Mahler
Name (Please Print)

Signature

REGULATORY ANALYST
Title

5/21/2012
Date

RECEIVED
MAY 21 2012
Div. of Oil, Gas & Mining

(5/2000)

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	SENW		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	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3BS	08	100S	230E	4304751136	18227	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4AS	08	100S	230E	4304751137	18224	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4DS	08	100S	230E	4304751138	18225	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J2CS	08	100S	230E	4304751139	18226	1	GW	P	SENW	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