

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 1023-8N2BS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 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 <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>	19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	531 FSL 683 FWL	SWSW	8	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1070 FSL 1550 FWL	SESW	8	10.0 S	23.0 E	S
At Total Depth	1070 FSL 1550 FWL	SESW	8	10.0 S	23.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 1070	23. NUMBER OF ACRES IN DRILLING UNIT 1920
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 293	26. PROPOSED DEPTH MD: 8481 TVD: 8321
27. ELEVATION - GROUND LEVEL 5299	28. BOND NUMBER WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496

ATTACHMENTS

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

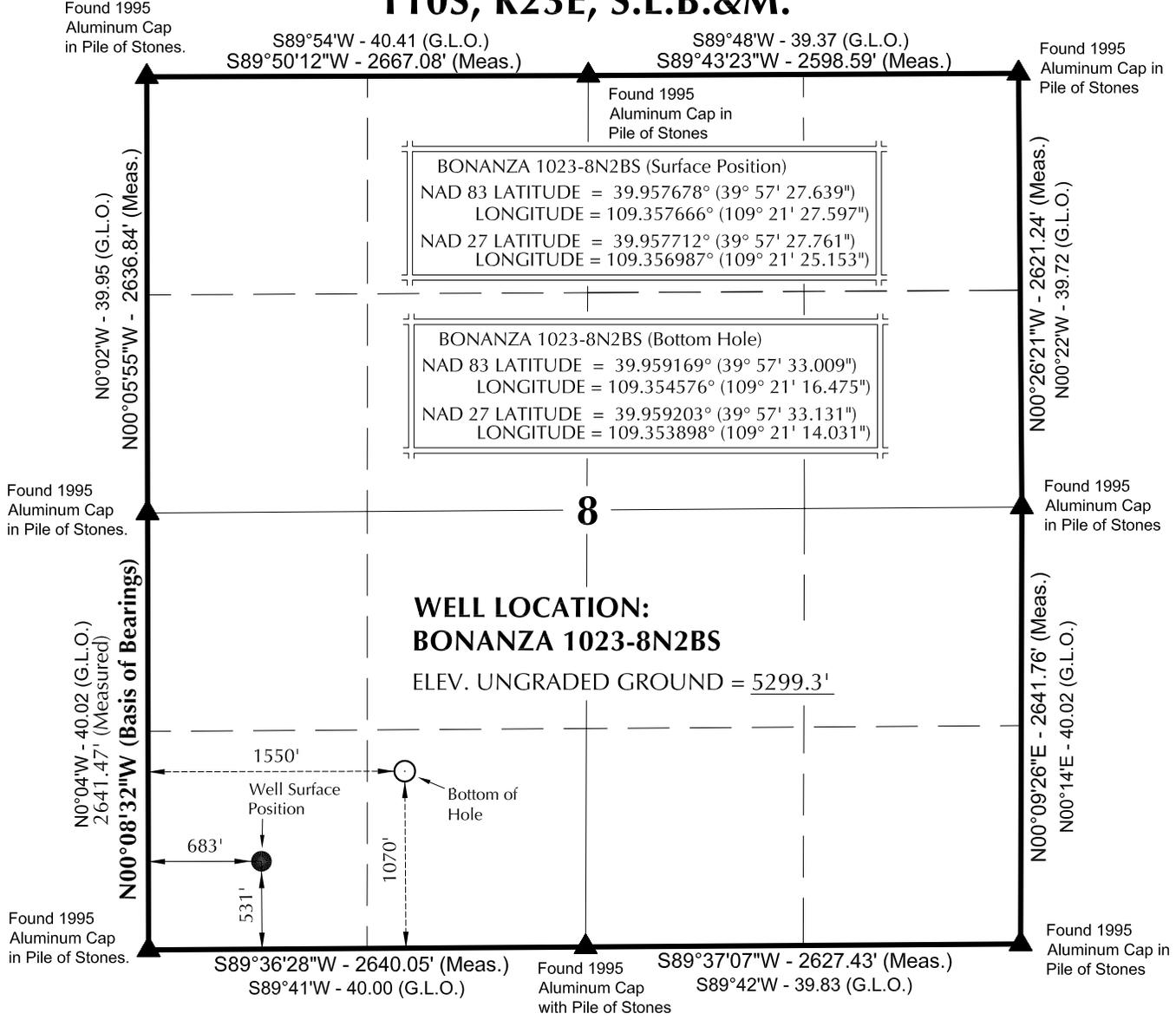
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 07/02/2010	EMAIL gnbregulatory@anadarko.com
API NUMBER ASSIGNED 43047511560000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8481		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	8481	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	1840		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	1840	28.0			

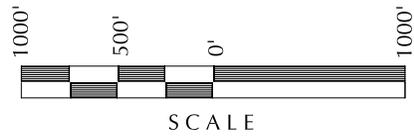
T10S, R23E, S.L.B.&M.



**WELL LOCATION:
BONANZA 1023-8N2BS**
ELEV. UNGRADED GROUND = 5299.3'

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 N57°49'47"E 1022.67' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



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

SURVEYOR'S CERTIFICATE

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

John R. Laugh
No. 6028691
REGISTERED LAND SURVEYOR
STATE OF UTAH

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

WELL PAD - BONANZA 1023-8M

**BONANZA 1023-8N2BS
WELL PLAT**
1070' FSL, 1550' FWL (Bottom Hole)
SE ¼ SW ¼ OF SECTION 8, T10S, R23E,
S.L.B.&M., UTAH COUNTY, UTAH.

TIMBERLINE		(435) 789-1365
ENGINEERING & LAND SURVEYING, INC.		
209 NORTH 300 WEST - VERNAL, UTAH 84078		
DATE SURVEYED: 02-23-10	SURVEYED BY: M.S.B.	SHEET NO: 1
DATE DRAWN: 02-24-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised: 06-02-10 E.M.S.	1 OF 18



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-8M Pad

BONANZA 1023-8N2BS

BONANZA 1023-8N2BS

Plan: PLAN #1 5-7-10 RHS

Standard Planning Report

07 May, 2010



Weatherford®

'APIWellNo:43047511560000'



Project: UINTAH COUNTY, UTAH (nad 27)
 Site: Bonanza 1023-8M Pad
 Well: BONANZA 1023-8N2BS
 Wellbore: BONANZA 1023-8N2BS
 Section: SECTION 8 T10S R10E
 SHL: 524 FSL 676 FWL
 Design: PLAN #1 5-7-10 RHS
 Latitude: 39° 57' 27.763 N
 Longitude: 109° 21' 25.153 W
 GL: 5299.00
 KB: WELL @ 5313.00ft (Original Well Elev)



Weatherford



Azimuths to True North
 Magnetic North: 11.17°

Magnetic Field
 Strength: 52449.4snT
 Dip Angle: 65.91°
 Date: 5/7/2010
 Model: BGGM2009

LEGEND

- Bonanza 1023-8M EXISTING, Bonanza 1023-8M EXISTING, Bonanza 1023-8M EXISTING V0
- BONANZA 1023-8M2AS, BONANZA 1023-8M2AS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8M2DS, BONANZA 1023-8M2DS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8N3DS, BONANZA 1023-8N3DS, PLAN #1 5-7-10 RHS V0
- PLAN #1 5-7-10 RHS

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
1068.00	1077.51	GREEN RIVER
4029.00	4188.64	WASATCH
7015.00	7174.66	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
1840.00	1896.14	8 5/8"	8.62

SECTION DETAILS

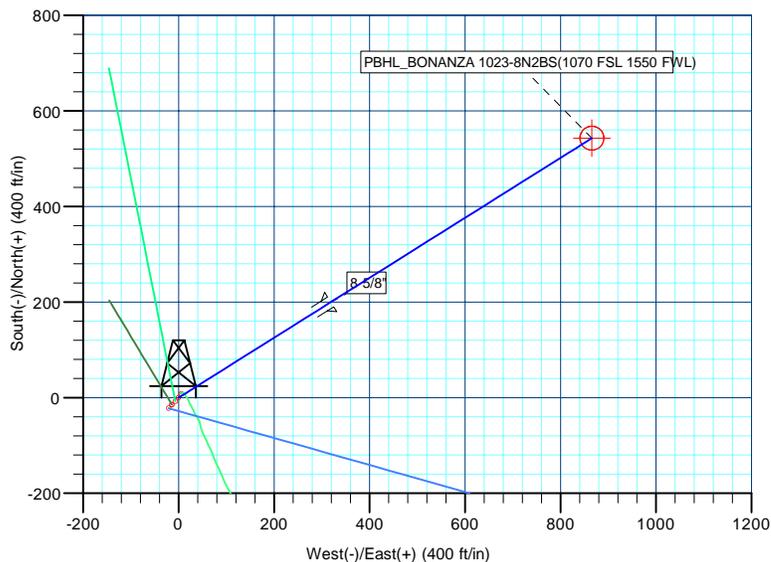
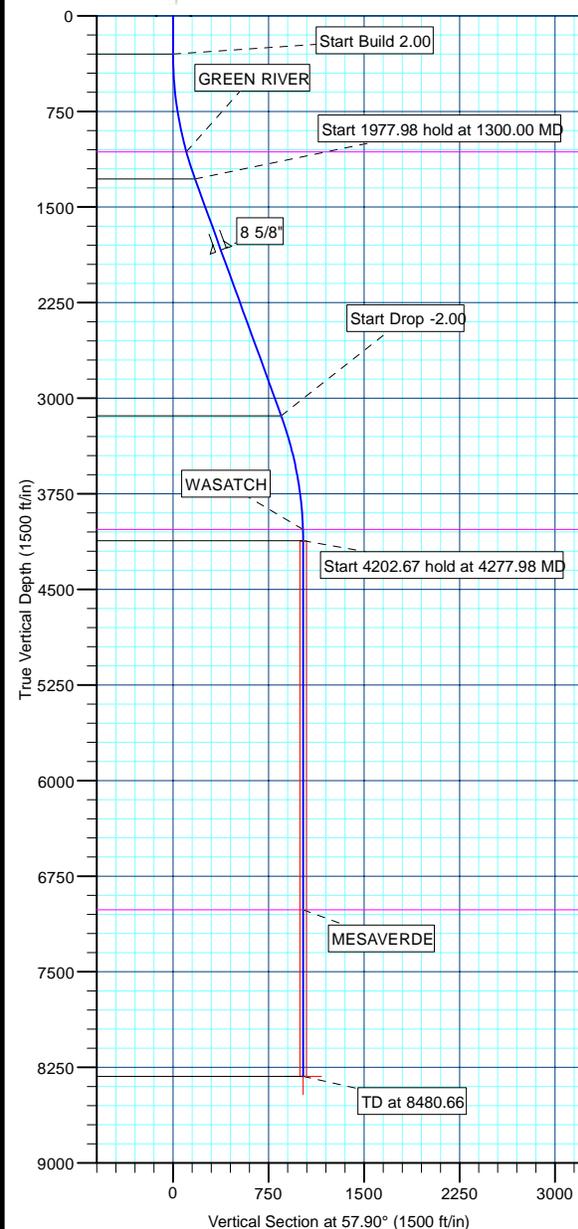
MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1300.00	20.00	57.90	1279.82	91.80	146.36	2.00	57.90	172.77	Start 1977.98 hold at 1300.00 MD
3277.98	20.00	57.90	3138.51	451.27	719.47	0.00	0.00	849.28	Start Drop -2.00
4277.98	0.00	0.00	4118.33	543.07	865.83	2.00	180.00	1022.05	Start 4202.67 hold at 4277.98 MD
8480.66	0.00	0.00	8321.00	543.07	865.83	0.00	0.00	1022.05	TD at 8480.66

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

Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
PBHL	8321.00	543.07	865.83	39° 57' 33.131 N	109° 21' 14.033 W	Circle (Radius: 25.00)

WELL DETAILS: BONANZA 1023-8N2BS

+N-S	+E-W	Northing	Ground Level: Easting	5299.00 Latitude	Longitude	Slot
0.00	0.00	14514886.33	2100851.00	39° 57' 27.763 N	109° 21' 25.153 W	



Plan: PLAN #1 5-7-10 RHS (BONANZA 1023-8N2BS/BONANZA 1023-8N2BS)

Created By: Robert H. Scott Date: 17:03, May 07 2010



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
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 1023-8M Pad	North Reference:	True
Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8N2BS		
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 1023-8M Pad, SECTION 8 T10S R10E				
Site Position:		Northing:	14,514,871.51 ft	Latitude:	39° 57' 27.619 N
From:	Lat/Long	Easting:	2,100,837.54 ft	Longitude:	109° 21' 25.330 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.06 °

Well	BONANZA 1023-8N2BS					
Well Position	+N/-S	14.57 ft	Northing:	14,514,886.33 ft	Latitude:	39° 57' 27.763 N
	+E/-W	13.73 ft	Easting:	2,100,851.00 ft	Longitude:	109° 21' 25.153 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,299.00 ft

Wellbore	BONANZA 1023-8N2BS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/7/2010	11.17	65.91	52,449

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	57.90

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	57.90	1,279.82	91.80	146.36	2.00	2.00	0.00	57.90	
3,277.98	20.00	57.90	3,138.51	451.27	719.47	0.00	0.00	0.00	0.00	
4,277.98	0.00	0.00	4,118.33	543.07	865.83	2.00	-2.00	0.00	180.00	
8,480.66	0.00	0.00	8,321.00	543.07	865.83	0.00	0.00	0.00	0.00	PBHL_BONANZA 1



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Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8M Pad	North Reference:	True
Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8N2BS		
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	57.90	399.98	0.93	1.48	1.75	2.00	2.00	0.00
500.00	4.00	57.90	499.84	3.71	5.91	6.98	2.00	2.00	0.00
600.00	6.00	57.90	599.45	8.34	13.29	15.69	2.00	2.00	0.00
700.00	8.00	57.90	698.70	14.81	23.62	27.88	2.00	2.00	0.00
800.00	10.00	57.90	797.47	23.13	36.87	43.52	2.00	2.00	0.00
900.00	12.00	57.90	895.62	33.26	53.03	62.60	2.00	2.00	0.00
1,000.00	14.00	57.90	993.06	45.22	72.09	85.10	2.00	2.00	0.00
GREEN RIVER									
1,077.51	15.55	57.90	1,068.00	55.72	88.83	104.86	2.00	2.00	0.00
1,100.00	16.00	57.90	1,089.64	58.97	94.01	110.98	2.00	2.00	0.00
1,200.00	18.00	57.90	1,185.27	74.50	118.78	140.21	2.00	2.00	0.00
Start 1977.98 hold at 1300.00 MD									
1,300.00	20.00	57.90	1,279.82	91.80	146.36	172.77	2.00	2.00	0.00
1,400.00	20.00	57.90	1,373.78	109.97	175.33	206.97	0.00	0.00	0.00
1,500.00	20.00	57.90	1,467.75	128.15	204.31	241.17	0.00	0.00	0.00
1,600.00	20.00	57.90	1,561.72	146.32	233.28	275.37	0.00	0.00	0.00
1,700.00	20.00	57.90	1,655.69	164.49	262.26	309.58	0.00	0.00	0.00
1,800.00	20.00	57.90	1,749.66	182.67	291.23	343.78	0.00	0.00	0.00
8 5/8"									
1,896.14	20.00	57.90	1,840.00	200.14	319.09	376.66	0.00	0.00	0.00
1,900.00	20.00	57.90	1,843.63	200.84	320.21	377.98	0.00	0.00	0.00
2,000.00	20.00	57.90	1,937.60	219.01	349.18	412.18	0.00	0.00	0.00
2,100.00	20.00	57.90	2,031.57	237.19	378.15	446.38	0.00	0.00	0.00
2,200.00	20.00	57.90	2,125.54	255.36	407.13	480.59	0.00	0.00	0.00
2,300.00	20.00	57.90	2,219.51	273.53	436.10	514.79	0.00	0.00	0.00
2,400.00	20.00	57.90	2,313.48	291.71	465.08	548.99	0.00	0.00	0.00
2,500.00	20.00	57.90	2,407.45	309.88	494.05	583.19	0.00	0.00	0.00
2,600.00	20.00	57.90	2,501.42	328.05	523.03	617.39	0.00	0.00	0.00
2,700.00	20.00	57.90	2,595.39	346.23	552.00	651.60	0.00	0.00	0.00
2,800.00	20.00	57.90	2,689.35	364.40	580.97	685.80	0.00	0.00	0.00
2,900.00	20.00	57.90	2,783.32	382.57	609.95	720.00	0.00	0.00	0.00
3,000.00	20.00	57.90	2,877.29	400.75	638.92	754.20	0.00	0.00	0.00
3,100.00	20.00	57.90	2,971.26	418.92	667.90	788.40	0.00	0.00	0.00
3,200.00	20.00	57.90	3,065.23	437.09	696.87	822.61	0.00	0.00	0.00
Start Drop -2.00									
3,277.98	20.00	57.90	3,138.51	451.27	719.47	849.28	0.00	0.00	0.00
3,300.00	19.56	57.90	3,159.23	455.23	725.78	856.73	2.00	-2.00	0.00
3,400.00	17.56	57.90	3,254.02	472.14	752.74	888.56	2.00	-2.00	0.00
3,500.00	15.56	57.90	3,349.87	487.28	776.88	917.06	2.00	-2.00	0.00
3,600.00	13.56	57.90	3,446.66	500.64	798.18	942.19	2.00	-2.00	0.00
3,700.00	11.56	57.90	3,544.26	512.19	816.60	963.94	2.00	-2.00	0.00
3,800.00	9.56	57.90	3,642.56	521.93	832.13	982.26	2.00	-2.00	0.00
3,900.00	7.56	57.90	3,741.44	529.84	844.73	997.15	2.00	-2.00	0.00
4,000.00	5.56	57.90	3,840.78	535.91	854.41	1,008.57	2.00	-2.00	0.00
4,100.00	3.56	57.90	3,940.46	540.13	861.14	1,016.52	2.00	-2.00	0.00
WASATCH									
4,188.64	1.79	57.90	4,029.00	542.33	864.65	1,020.65	2.00	-2.00	0.00
4,200.00	1.56	57.90	4,040.35	542.50	864.93	1,020.98	2.00	-2.00	0.00
Start 4202.67 hold at 4277.98 MD									
4,277.98	0.00	0.00	4,118.33	543.07	865.83	1,022.05	2.00	-2.00	0.00
4,300.00	0.00	0.00	4,140.34	543.07	865.83	1,022.05	0.00	0.00	0.00



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Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8M Pad	North Reference:	True
Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8N2BS		
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)
4,400.00	0.00	0.00	4,240.34	543.07	865.83	1,022.05	0.00	0.00	0.00
4,500.00	0.00	0.00	4,340.34	543.07	865.83	1,022.05	0.00	0.00	0.00
4,600.00	0.00	0.00	4,440.34	543.07	865.83	1,022.05	0.00	0.00	0.00
4,700.00	0.00	0.00	4,540.34	543.07	865.83	1,022.05	0.00	0.00	0.00
4,800.00	0.00	0.00	4,640.34	543.07	865.83	1,022.05	0.00	0.00	0.00
4,900.00	0.00	0.00	4,740.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,000.00	0.00	0.00	4,840.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,100.00	0.00	0.00	4,940.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,200.00	0.00	0.00	5,040.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,300.00	0.00	0.00	5,140.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,400.00	0.00	0.00	5,240.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,500.00	0.00	0.00	5,340.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,600.00	0.00	0.00	5,440.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,700.00	0.00	0.00	5,540.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,800.00	0.00	0.00	5,640.34	543.07	865.83	1,022.05	0.00	0.00	0.00
5,900.00	0.00	0.00	5,740.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,000.00	0.00	0.00	5,840.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,100.00	0.00	0.00	5,940.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,200.00	0.00	0.00	6,040.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,300.00	0.00	0.00	6,140.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,400.00	0.00	0.00	6,240.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,500.00	0.00	0.00	6,340.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,600.00	0.00	0.00	6,440.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,700.00	0.00	0.00	6,540.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,800.00	0.00	0.00	6,640.34	543.07	865.83	1,022.05	0.00	0.00	0.00
6,900.00	0.00	0.00	6,740.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,000.00	0.00	0.00	6,840.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,100.00	0.00	0.00	6,940.34	543.07	865.83	1,022.05	0.00	0.00	0.00
MESAVERDE									
7,174.66	0.00	0.00	7,015.00	543.07	865.83	1,022.05	0.00	0.00	0.00
7,200.00	0.00	0.00	7,040.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,300.00	0.00	0.00	7,140.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,400.00	0.00	0.00	7,240.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,500.00	0.00	0.00	7,340.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,600.00	0.00	0.00	7,440.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,700.00	0.00	0.00	7,540.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,800.00	0.00	0.00	7,640.34	543.07	865.83	1,022.05	0.00	0.00	0.00
7,900.00	0.00	0.00	7,740.34	543.07	865.83	1,022.05	0.00	0.00	0.00
8,000.00	0.00	0.00	7,840.34	543.07	865.83	1,022.05	0.00	0.00	0.00
8,100.00	0.00	0.00	7,940.34	543.07	865.83	1,022.05	0.00	0.00	0.00
8,200.00	0.00	0.00	8,040.34	543.07	865.83	1,022.05	0.00	0.00	0.00
8,300.00	0.00	0.00	8,140.34	543.07	865.83	1,022.05	0.00	0.00	0.00
8,400.00	0.00	0.00	8,240.34	543.07	865.83	1,022.05	0.00	0.00	0.00
TD at 8480.66 - PBHL BONANZA 1023-8N2BS(1070 FSL 1550 FWL)									
8,480.66	0.00	0.00	8,321.00	543.07	865.83	1,022.05	0.00	0.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
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 1023-8M Pad	North Reference:	True
Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8N2BS		
Design:	PLAN #1 5-7-10 RHS		

Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_BONANZA 102	- plan hits target center	0.00	0.00	8,321.00	543.07	865.83	14,515,445.25	2,101,706.68	39° 57' 33.131 N	109° 21' 14.033 W
	- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,896.14	1,840.00	8 5/8"	8.62	11.00	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,077.51	1,068.00	GREEN RIVER			
4,188.64	4,029.00	WASATCH			
7,174.66	7,015.00	MESAVERDE			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	91.80	146.36	Start 1977.98 hold at 1300.00 MD	
3,277.98	3,138.51	451.27	719.47	Start Drop -2.00	
4,277.98	4,118.33	543.07	865.83	Start 4202.67 hold at 4277.98 MD	
8,480.66	8,321.00	543.07	865.83	TD at 8480.66	



ANADARKO PETROLEUM CORP.

**UINTAH COUNTY, UTAH (nad 27)
Bonanza 1023-8M Pad
BONANZA 1023-8N2BS**

**BONANZA 1023-8N2BS
PLAN #1 5-7-10 RHS**

Anticollision Report

07 May, 2010





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	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				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	8,480.66	PLAN #1 5-7-10 RHS (BONANZA 1023-8M)	MWD	MWD - Standard	

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Bonanza 1023-8M Pad						
Bonanza 1023-8M EXISTING - Bonanza 1023-8M EXISTING	523.05	508.83	5.72	3.59	2.681	CC, ES, SF
BONANZA 1023-8M2AS - BONANZA 1023-8M2AS - PL/	300.00	300.00	9.92	8.82	9.077	CC, ES
BONANZA 1023-8M2AS - BONANZA 1023-8M2AS - PL/	400.00	400.16	10.74	9.20	6.971	SF
BONANZA 1023-8M2DS - BONANZA 1023-8M2DS - PL/	300.00	300.00	20.02	18.93	18.329	CC, ES
BONANZA 1023-8M2DS - BONANZA 1023-8M2DS - PL/	500.00	499.90	26.30	24.31	13.186	SF
BONANZA 1023-8N3DS - BONANZA 1023-8N3DS - PL/	300.00	300.00	30.13	29.04	27.582	CC, ES
BONANZA 1023-8N3DS - BONANZA 1023-8N3DS - PL/	700.00	700.68	47.58	44.62	16.033	SF

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	33.79	8.38	5.61	17.25				
100.00	100.00	85.97	85.97	0.10	0.11	33.14	8.53	5.57	10.19	9.98	0.21	48.351	
200.00	200.00	186.00	186.00	0.32	0.36	32.08	8.80	5.52	10.39	9.70	0.68	15.240	
300.00	300.00	285.98	285.98	0.55	0.62	31.35	8.95	5.45	10.48	9.32	1.17	8.968	
400.00	399.98	385.98	385.97	0.77	0.86	-34.85	9.34	5.06	9.15	7.51	1.63	5.607	
500.00	499.84	485.84	485.84	0.99	1.05	-72.32	9.51	4.43	5.99	3.95	2.04	2.934	
523.05	522.83	508.83	508.82	1.05	1.09	-89.75	9.47	4.33	5.72	3.59	2.13	2.681	CC, ES, SF
600.00	599.45	585.48	585.48	1.24	1.18	-140.72	9.45	4.32	9.04	6.64	2.40	3.768	
700.00	698.70	684.87	684.86	1.51	1.32	-163.19	9.64	4.87	19.45	16.69	2.75	7.064	
800.00	797.47	783.62	783.61	1.83	1.50	-170.51	9.96	5.46	34.06	30.89	3.17	10.759	
900.00	895.62	881.75	881.74	2.19	1.67	-173.83	10.12	5.72	52.67	49.11	3.56	14.780	
1,000.00	993.06	979.68	979.67	2.61	1.81	-176.06	9.87	6.35	74.64	70.70	3.94	18.966	
1,100.00	1,089.64	1,077.22	1,077.20	3.10	1.99	-177.40	9.94	7.65	99.32	94.97	4.35	22.811	
1,200.00	1,185.27	1,173.10	1,173.07	3.64	2.21	-178.00	10.65	9.01	127.01	122.20	4.81	26.406	
1,300.00	1,279.82	1,267.58	1,267.53	4.25	2.41	-178.57	10.83	10.26	158.38	153.12	5.26	30.126	
1,400.00	1,373.78	1,361.08	1,361.03	4.90	2.58	-179.25	10.12	11.66	191.74	186.01	5.72	33.504	
1,500.00	1,467.75	1,453.72	1,453.65	5.57	2.74	-179.79	8.91	12.77	225.62	219.44	6.17	36.546	
1,600.00	1,561.72	1,546.70	1,546.61	6.24	2.88	179.71	7.06	13.55	260.15	253.52	6.62	39.287	
1,700.00	1,655.69	1,640.96	1,640.84	6.91	3.04	179.25	4.83	14.55	294.71	287.62	7.08	41.607	
1,800.00	1,749.66	1,735.89	1,735.72	7.59	3.21	178.80	2.37	15.98	329.05	321.48	7.57	43.489	
1,900.00	1,843.63	1,830.11	1,829.89	8.28	3.40	178.38	-0.19	17.85	363.09	355.02	8.06	45.024	

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



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference				Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor
2,000.00	1,937.60	1,921.88	1,921.61	8.96	3.59	178.07	-2.74	19.27	397.52	388.95	8.56	46.419	
2,100.00	2,031.57	2,015.02	2,014.69	9.65	3.78	177.75	-5.81	20.67	432.26	423.19	9.07	47.665	
2,200.00	2,125.54	2,109.24	2,108.87	10.34	3.98	177.54	-8.53	21.81	467.03	457.45	9.58	48.748	
2,300.00	2,219.51	2,204.18	2,203.72	11.03	4.19	177.24	-11.94	23.65	501.62	491.51	10.11	49.640	
2,400.00	2,313.48	2,298.58	2,298.98	11.72	4.39	176.83	-16.46	26.04	536.43	525.79	10.63	50.457	
2,500.00	2,407.45	2,390.81	2,390.06	12.41	4.61	176.46	-21.23	28.42	571.37	560.19	11.17	51.131	
2,600.00	2,501.42	2,483.18	2,482.32	13.11	4.83	176.21	-25.17	30.46	606.15	594.44	11.71	51.757	
2,700.00	2,595.39	2,576.87	2,575.91	13.80	5.05	176.01	-29.13	32.30	641.10	628.85	12.25	52.323	
2,800.00	2,689.35	2,671.03	2,669.97	14.49	5.28	175.83	-32.95	34.11	676.00	663.20	12.80	52.819	
2,900.00	2,783.32	2,767.10	2,765.93	15.19	5.51	175.64	-37.08	36.32	710.76	697.40	13.35	53.222	
3,000.00	2,877.29	2,861.91	2,860.62	15.88	5.74	175.45	-41.12	38.86	745.21	731.30	13.91	53.564	
3,100.00	2,971.26	2,955.44	2,954.05	16.58	5.98	175.32	-44.71	41.06	779.67	765.20	14.47	53.887	
3,200.00	3,065.23	3,049.55	3,048.07	17.27	6.20	175.19	-48.38	43.17	814.29	799.27	15.01	54.239	
3,277.98	3,138.51	3,113.20	3,111.65	17.82	6.36	175.12	-51.22	44.27	841.76	826.33	15.43	54.562	
3,300.00	3,159.23	3,132.27	3,130.70	17.95	6.41	175.12	-52.03	44.49	849.52	833.96	15.56	54.606	
3,400.00	3,254.02	3,222.29	3,220.63	18.47	6.62	175.11	-55.92	45.03	883.21	867.10	16.12	54.800	
3,500.00	3,349.87	3,324.28	3,322.53	18.95	6.87	175.06	-60.21	45.91	913.37	896.69	16.68	54.758	
3,600.00	3,446.66	3,424.62	3,422.78	19.38	7.11	174.98	-64.25	47.52	939.51	922.30	17.21	54.575	
3,700.00	3,544.26	3,517.19	3,515.25	19.76	7.34	174.88	-68.28	49.05	962.45	944.74	17.71	54.348	
3,800.00	3,642.56	3,611.75	3,609.68	20.10	7.58	174.74	-72.88	50.39	982.48	964.30	18.18	54.046	
3,900.00	3,741.44	3,719.18	3,716.97	20.38	7.85	174.55	-78.08	52.36	998.76	980.11	18.65	53.540	
4,000.00	3,840.78	3,823.83	3,821.48	20.62	8.12	174.33	-82.76	55.10	1,010.78	991.69	19.09	52.942	
4,100.00	3,940.46	3,918.32	3,915.85	20.81	8.36	174.12	-86.94	57.41	1,019.47	1,000.00	19.47	52.356	
4,200.00	4,040.35	4,013.85	4,011.26	20.95	8.61	173.91	-91.22	59.19	1,025.21	1,005.39	19.82	51.726	
4,277.98	4,118.33	4,092.62	4,089.94	21.03	8.81	-128.38	-94.75	60.54	1,027.38	1,007.30	20.08	51.166	
4,300.00	4,140.34	4,114.87	4,112.16	21.05	8.87	-128.44	-95.74	60.93	1,027.69	1,007.51	20.17	50.943	
4,400.00	4,240.34	4,216.40	4,213.58	21.14	9.13	-128.70	-100.24	62.79	1,029.02	1,008.41	20.61	49.924	
4,500.00	4,340.34	4,320.59	4,317.65	21.23	9.40	-128.97	-104.71	65.00	1,030.06	1,009.00	21.06	48.905	
4,600.00	4,440.34	4,422.25	4,419.20	21.33	9.67	-129.24	-108.89	67.50	1,030.73	1,009.23	21.51	47.921	
4,700.00	4,540.34	4,515.82	4,512.65	21.42	9.91	-129.49	-112.96	69.63	1,031.74	1,009.81	21.93	47.037	
4,800.00	4,640.34	4,610.03	4,606.73	21.52	10.16	-129.74	-117.48	71.36	1,033.39	1,011.02	22.36	46.206	
4,900.00	4,740.34	4,710.24	4,706.81	21.62	10.42	-130.01	-122.44	73.04	1,035.28	1,012.47	22.81	45.384	
5,000.00	4,840.34	4,810.73	4,807.16	21.72	10.68	-130.28	-127.42	74.76	1,037.16	1,013.90	23.26	44.587	
5,100.00	4,940.34	4,913.67	4,909.95	21.83	10.95	-130.58	-132.65	76.90	1,038.87	1,015.15	23.72	43.790	
5,200.00	5,040.34	5,015.45	5,011.54	21.94	11.21	-130.90	-138.05	79.61	1,040.33	1,016.14	24.19	43.011	
5,300.00	5,140.34	5,111.36	5,107.27	22.04	11.47	-131.22	-143.43	82.23	1,041.95	1,017.32	24.64	42.289	
5,400.00	5,240.34	5,207.70	5,203.41	22.15	11.72	-131.54	-149.14	84.66	1,043.99	1,018.89	25.09	41.605	
5,500.00	5,340.34	5,309.56	5,305.04	22.27	11.99	-131.90	-155.38	87.33	1,046.10	1,020.54	25.57	40.917	
5,600.00	5,440.34	5,410.58	5,405.82	22.38	12.26	-132.26	-161.65	90.34	1,048.07	1,022.03	26.04	40.249	
5,700.00	5,540.34	5,505.14	5,500.14	22.49	12.51	-132.62	-167.86	93.17	1,050.29	1,023.79	26.50	39.637	
5,800.00	5,640.34	5,600.00	5,594.72	22.61	12.76	-132.99	-174.60	95.83	1,053.06	1,026.10	26.96	39.062	
5,900.00	5,740.34	5,707.25	5,701.64	22.73	13.05	-133.41	-182.31	99.13	1,055.75	1,028.29	27.46	38.447	
6,000.00	5,840.34	5,813.33	5,807.40	22.85	13.33	-133.85	-189.58	103.13	1,057.75	1,029.79	27.96	37.830	
6,100.00	5,940.34	5,909.60	5,903.38	22.97	13.59	-134.24	-196.05	106.75	1,059.73	1,031.29	28.43	37.271	
6,200.00	6,040.34	6,006.38	5,999.89	23.09	13.85	-134.61	-202.56	109.95	1,062.08	1,033.17	28.91	36.741	
6,300.00	6,140.34	6,110.76	6,103.98	23.22	14.13	-135.00	-209.45	113.43	1,064.38	1,034.97	29.41	36.197	
6,400.00	6,240.34	6,215.23	6,208.16	23.34	14.41	-135.41	-216.13	117.33	1,066.28	1,036.38	29.90	35.656	
6,500.00	6,340.34	6,320.21	6,312.85	23.47	14.69	-135.82	-222.67	121.80	1,067.77	1,037.36	30.41	35.114	
6,600.00	6,440.34	6,423.09	6,415.42	23.60	14.97	-136.25	-228.96	126.74	1,068.84	1,037.93	30.91	34.580	
6,700.00	6,540.34	6,519.40	6,511.42	23.73	15.23	-136.66	-235.05	131.45	1,070.04	1,038.65	31.39	34.086	
6,800.00	6,640.34	6,618.10	6,609.79	23.86	15.49	-137.08	-241.60	136.20	1,071.61	1,039.72	31.88	33.610	
6,900.00	6,740.34	6,729.35	6,720.69	23.99	15.79	-137.54	-248.24	141.70	1,072.64	1,040.23	32.41	33.096	

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



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,000.00	6,840.34	6,831.98	6,823.07	24.13	16.06	-137.93	-253.32	147.03	1,072.80	1,039.90	32.91	32.599		
7,100.00	6,940.34	6,900.00	6,890.87	24.26	16.25	-138.21	-257.24	150.62	1,073.91	1,040.60	33.31	32.244		
7,200.00	7,040.34	6,900.00	6,890.87	24.40	16.25	-138.21	-257.24	150.62	1,081.84	1,048.34	33.50	32.297		
7,300.00	7,140.34	6,900.00	6,890.87	24.54	16.25	-138.21	-257.24	150.62	1,098.85	1,065.16	33.69	32.618		
7,400.00	7,240.34	6,900.00	6,890.87	24.68	16.25	-138.21	-257.24	150.62	1,124.53	1,090.65	33.88	33.191		
7,500.00	7,340.34	6,900.00	6,890.87	24.82	16.25	-138.21	-257.24	150.62	1,158.30	1,124.22	34.07	33.994		
7,600.00	7,440.34	6,900.00	6,890.87	24.96	16.25	-138.21	-257.24	150.62	1,199.48	1,165.21	34.27	35.004		
7,700.00	7,540.34	6,900.00	6,890.87	25.11	16.25	-138.21	-257.24	150.62	1,247.33	1,212.87	34.46	36.195		
7,800.00	7,640.34	6,900.00	6,890.87	25.25	16.25	-138.21	-257.24	150.62	1,301.13	1,266.47	34.66	37.543		
7,900.00	7,740.34	6,900.00	6,890.87	25.40	16.25	-138.21	-257.24	150.62	1,360.16	1,325.30	34.85	39.026		
8,000.00	7,840.34	6,900.00	6,890.87	25.54	16.25	-138.21	-257.24	150.62	1,423.77	1,388.72	35.05	40.622		
8,100.00	7,940.34	6,900.00	6,890.87	25.69	16.25	-138.21	-257.24	150.62	1,491.38	1,456.13	35.25	42.314		
8,200.00	8,040.34	6,900.00	6,890.87	25.84	16.25	-138.21	-257.24	150.62	1,562.47	1,527.02	35.44	44.083		
8,300.00	8,140.34	6,900.00	6,890.87	25.99	16.25	-138.21	-257.24	150.62	1,636.58	1,600.94	35.64	45.917		
8,400.00	8,240.34	6,900.00	6,890.87	26.14	16.25	-138.21	-257.24	150.62	1,713.33	1,677.49	35.84	47.804		
8,480.66	8,321.00	6,900.00	6,890.87	26.27	16.25	-138.21	-257.24	150.62	1,776.92	1,740.91	36.00	49.357		



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft								
Survey Program: 0-MWD												Offset Well Error:		0.00 ft							
Reference												Offset		Semi Major Axis		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor									
0.00	0.00	0.00	0.00	0.00	0.00	-137.28	-7.28	-6.73	9.92												
100.00	100.00	100.00	100.00	0.10	0.10	-137.28	-7.28	-6.73	9.92	9.72	0.19	51.296									
200.00	200.00	200.00	200.00	0.32	0.32	-137.28	-7.28	-6.73	9.92	9.27	0.64	15.425									
300.00	300.00	300.00	300.00	0.55	0.55	-137.28	-7.28	-6.73	9.92	8.82	1.09	9.077 CC, ES									
400.00	399.98	400.16	400.14	0.77	0.77	174.87	-5.57	-7.07	10.74	9.20	1.54	6.971 SF									
500.00	499.84	500.09	499.93	0.99	1.01	-164.35	-0.43	-8.09	14.61	12.61	1.99	7.327									
600.00	599.45	599.55	599.01	1.24	1.25	-148.39	8.06	-9.79	23.09	20.62	2.47	9.340									
700.00	698.70	698.32	697.03	1.51	1.51	-139.40	19.83	-12.14	36.14	33.15	2.99	12.083									
800.00	797.47	796.17	793.69	1.83	1.82	-134.36	34.75	-15.11	53.40	49.84	3.56	14.988									
900.00	895.62	892.90	888.68	2.19	2.16	-131.29	52.67	-18.69	74.63	70.43	4.20	17.782									
1,000.00	993.06	988.33	981.73	2.61	2.56	-129.25	73.42	-22.83	99.67	94.77	4.90	20.341									
1,100.00	1,089.64	1,082.28	1,072.59	3.10	2.99	-127.79	96.81	-27.50	128.40	122.73	5.68	22.617									
1,200.00	1,185.27	1,174.58	1,161.06	3.64	3.47	-126.65	122.62	-32.65	160.72	154.19	6.53	24.610									
1,300.00	1,279.82	1,265.11	1,246.96	4.25	3.99	-125.71	150.64	-38.24	196.51	189.05	7.46	26.340									
1,400.00	1,373.78	1,354.09	1,330.46	4.90	4.55	-125.21	180.75	-44.25	234.74	226.27	8.47	27.730									
1,500.00	1,467.75	1,441.74	1,411.75	5.57	5.15	-124.32	212.89	-50.66	274.46	264.94	9.52	28.840									
1,600.00	1,561.72	1,531.62	1,494.33	6.24	5.80	-123.29	247.70	-57.60	315.33	304.71	10.62	29.699									
1,700.00	1,655.69	1,622.73	1,578.00	6.91	6.47	-122.47	283.06	-64.66	356.33	344.59	11.74	30.365									
1,800.00	1,749.66	1,713.83	1,661.66	7.59	7.15	-121.82	318.43	-71.72	397.38	384.51	12.86	30.894									
1,900.00	1,843.63	1,804.93	1,745.32	8.28	7.84	-121.29	353.79	-78.77	438.46	424.46	14.00	31.324									
2,000.00	1,937.60	1,896.04	1,828.98	8.96	8.53	-120.85	389.16	-85.83	479.56	464.43	15.14	31.679									
2,100.00	2,031.57	1,987.14	1,912.65	9.65	9.22	-120.48	424.53	-92.89	520.69	504.41	16.28	31.976									
2,200.00	2,125.54	2,087.55	2,005.37	10.34	9.83	-120.26	462.30	-100.42	561.14	543.76	17.38	32.292									
2,300.00	2,219.51	2,190.27	2,101.40	11.03	10.42	-120.33	498.04	-107.56	599.93	581.48	18.46	32.507									
2,400.00	2,313.48	2,294.44	2,199.91	11.72	10.98	-120.65	531.25	-114.18	637.04	617.52	19.52	32.635									
2,500.00	2,407.45	2,399.88	2,300.66	12.41	11.52	-121.19	561.72	-120.26	672.46	651.90	20.56	32.701									
2,600.00	2,501.42	2,506.38	2,403.39	13.11	12.02	-121.92	589.25	-125.76	706.22	684.65	21.58	32.730									
2,700.00	2,595.39	2,613.74	2,507.82	13.80	12.47	-122.81	613.68	-130.63	738.36	715.81	22.55	32.738									
2,800.00	2,689.35	2,721.73	2,613.62	14.49	12.89	-123.86	634.84	-134.85	768.95	745.46	23.49	32.741									
2,900.00	2,783.32	2,830.13	2,720.48	15.19	13.25	-125.05	652.63	-138.40	798.07	773.70	24.37	32.752									
3,000.00	2,877.29	2,938.69	2,828.05	15.88	13.56	-126.37	666.97	-141.26	825.82	800.63	25.19	32.784									
3,100.00	2,971.26	3,047.17	2,935.97	16.58	13.82	-127.80	677.79	-143.42	852.35	826.40	25.95	32.847									
3,200.00	3,065.23	3,155.35	3,043.88	17.27	14.03	-129.35	685.08	-144.88	877.78	851.14	26.64	32.953									
3,277.98	3,138.51	3,239.34	3,127.81	17.82	14.16	-130.62	688.33	-145.52	896.95	869.83	27.12	33.071									
3,300.00	3,159.23	3,263.01	3,151.47	17.95	14.19	-131.07	688.87	-145.63	902.22	874.96	27.26	33.102									
3,400.00	3,254.02	3,365.57	3,254.02	18.47	14.30	-132.94	689.47	-145.75	924.40	896.64	27.77	33.291									
3,500.00	3,349.87	3,461.41	3,349.87	18.95	14.40	-134.47	689.47	-145.75	944.53	916.30	28.23	33.462									
3,600.00	3,446.66	3,558.20	3,446.66	19.38	14.50	-135.78	689.47	-145.75	962.63	933.98	28.65	33.600									
3,700.00	3,544.26	3,655.80	3,544.26	19.76	14.60	-136.88	689.47	-145.75	978.54	949.51	29.04	33.701									
3,800.00	3,642.56	3,754.10	3,642.56	20.10	14.71	-137.78	689.47	-145.75	992.13	962.74	29.39	33.757									
3,900.00	3,741.44	3,852.98	3,741.44	20.38	14.82	-138.50	689.47	-145.75	1,003.27	973.55	29.71	33.766									
4,000.00	3,840.78	3,952.32	3,840.78	20.62	14.93	-139.04	689.47	-145.75	1,011.88	981.88	30.00	33.725									
4,100.00	3,940.46	4,052.00	3,940.46	20.81	15.05	-139.41	689.47	-145.75	1,017.91	987.64	30.27	33.632									
4,200.00	4,040.35	4,151.90	4,040.35	20.95	15.16	-139.62	689.47	-145.75	1,021.31	990.81	30.50	33.483									
4,277.98	4,118.33	4,229.87	4,118.33	21.03	15.26	-81.76	689.47	-145.75	1,022.12	991.45	30.67	33.329									
4,300.00	4,140.34	4,251.89	4,140.34	21.05	15.28	-81.76	689.47	-145.75	1,022.12	991.40	30.72	33.273									
4,400.00	4,240.34	4,351.89	4,240.34	21.14	15.41	-81.76	689.47	-145.75	1,022.12	991.16	30.96	33.014									
4,500.00	4,340.34	4,451.89	4,340.34	21.23	15.53	-81.76	689.47	-145.75	1,022.12	990.91	31.21	32.754									
4,600.00	4,440.34	4,551.89	4,440.34	21.33	15.66	-81.76	689.47	-145.75	1,022.12	990.66	31.46	32.494									
4,700.00	4,540.34	4,651.89	4,540.34	21.42	15.79	-81.76	689.47	-145.75	1,022.12	990.41	31.71	32.234									
4,800.00	4,640.34	4,751.89	4,640.34	21.52	15.92	-81.76	689.47	-145.75	1,022.12	990.15	31.97	31.973									
4,900.00	4,740.34	4,851.89	4,740.34	21.62	16.06	-81.76	689.47	-145.75	1,022.12	989.89	32.23	31.712									

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



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft								
Survey Program: 0-MWD												Offset Well Error:		0.00 ft							
Reference												Offset		Semi Major Axis		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor									
5,000.00	4,840.34	4,951.89	4,840.34	21.72	16.19	-81.76	689.47	-145.75	1,022.12	989.62	32.50	31.452									
5,100.00	4,940.34	5,051.89	4,940.34	21.83	16.33	-81.76	689.47	-145.75	1,022.12	989.35	32.77	31.192									
5,200.00	5,040.34	5,151.89	5,040.34	21.94	16.47	-81.76	689.47	-145.75	1,022.12	989.07	33.04	30.933									
5,300.00	5,140.34	5,251.89	5,140.34	22.04	16.61	-81.76	689.47	-145.75	1,022.12	988.80	33.32	30.674									
5,400.00	5,240.34	5,351.89	5,240.34	22.15	16.75	-81.76	689.47	-145.75	1,022.12	988.51	33.60	30.417									
5,500.00	5,340.34	5,451.89	5,340.34	22.27	16.90	-81.76	689.47	-145.75	1,022.12	988.23	33.89	30.160									
5,600.00	5,440.34	5,551.89	5,440.34	22.38	17.05	-81.76	689.47	-145.75	1,022.12	987.94	34.18	29.905									
5,700.00	5,540.34	5,651.89	5,540.34	22.49	17.20	-81.76	689.47	-145.75	1,022.12	987.65	34.47	29.651									
5,800.00	5,640.34	5,751.89	5,640.34	22.61	17.35	-81.76	689.47	-145.75	1,022.12	987.35	34.77	29.398									
5,900.00	5,740.34	5,851.89	5,740.34	22.73	17.50	-81.76	689.47	-145.75	1,022.12	987.05	35.07	29.147									
6,000.00	5,840.34	5,951.89	5,840.34	22.85	17.65	-81.76	689.47	-145.75	1,022.12	986.75	35.37	28.898									
6,100.00	5,940.34	6,051.89	5,940.34	22.97	17.81	-81.76	689.47	-145.75	1,022.12	986.44	35.68	28.651									
6,200.00	6,040.34	6,151.89	6,040.34	23.09	17.96	-81.76	689.47	-145.75	1,022.12	986.13	35.98	28.405									
6,300.00	6,140.34	6,251.89	6,140.34	23.22	18.12	-81.76	689.47	-145.75	1,022.12	985.82	36.30	28.161									
6,400.00	6,240.34	6,351.89	6,240.34	23.34	18.28	-81.76	689.47	-145.75	1,022.12	985.51	36.61	27.919									
6,500.00	6,340.34	6,451.89	6,340.34	23.47	18.44	-81.76	689.47	-145.75	1,022.12	985.19	36.93	27.679									
6,600.00	6,440.34	6,551.89	6,440.34	23.60	18.60	-81.76	689.47	-145.75	1,022.12	984.87	37.25	27.442									
6,700.00	6,540.34	6,651.89	6,540.34	23.73	18.77	-81.76	689.47	-145.75	1,022.12	984.55	37.57	27.206									
6,800.00	6,640.34	6,751.89	6,640.34	23.86	18.93	-81.76	689.47	-145.75	1,022.12	984.22	37.89	26.972									
6,900.00	6,740.34	6,851.89	6,740.34	23.99	19.10	-81.76	689.47	-145.75	1,022.12	983.90	38.22	26.741									
7,000.00	6,840.34	6,951.89	6,840.34	24.13	19.26	-81.76	689.47	-145.75	1,022.12	983.57	38.55	26.512									
7,100.00	6,940.34	7,051.89	6,940.34	24.26	19.43	-81.76	689.47	-145.75	1,022.12	983.23	38.89	26.286									
7,200.00	7,040.34	7,151.89	7,040.34	24.40	19.60	-81.76	689.47	-145.75	1,022.12	982.90	39.22	26.061									
7,300.00	7,140.34	7,251.89	7,140.34	24.54	19.77	-81.76	689.47	-145.75	1,022.12	982.56	39.56	25.839									
7,400.00	7,240.34	7,351.89	7,240.34	24.68	19.94	-81.76	689.47	-145.75	1,022.12	982.22	39.90	25.619									
7,500.00	7,340.34	7,451.89	7,340.34	24.82	20.11	-81.76	689.47	-145.75	1,022.12	981.88	40.24	25.402									
7,600.00	7,440.34	7,551.89	7,440.34	24.96	20.29	-81.76	689.47	-145.75	1,022.12	981.54	40.58	25.187									
7,700.00	7,540.34	7,651.89	7,540.34	25.11	20.46	-81.76	689.47	-145.75	1,022.12	981.19	40.93	24.974									
7,800.00	7,640.34	7,751.89	7,640.34	25.25	20.64	-81.76	689.47	-145.75	1,022.12	980.84	41.27	24.764									
7,900.00	7,740.34	7,851.89	7,740.34	25.40	20.81	-81.76	689.47	-145.75	1,022.12	980.49	41.62	24.556									
8,000.00	7,840.34	7,951.89	7,840.34	25.54	20.99	-81.76	689.47	-145.75	1,022.12	980.14	41.98	24.350									
8,100.00	7,940.34	8,051.89	7,940.34	25.69	21.17	-81.76	689.47	-145.75	1,022.12	979.79	42.33	24.147									
8,200.00	8,040.34	8,151.89	8,040.34	25.84	21.35	-81.76	689.47	-145.75	1,022.12	979.43	42.68	23.946									
8,300.00	8,140.34	8,251.89	8,140.34	25.99	21.53	-81.76	689.47	-145.75	1,022.12	979.08	43.04	23.748									
8,400.00	8,240.34	8,351.89	8,240.34	26.14	21.71	-81.76	689.47	-145.75	1,022.12	978.72	43.40	23.551									
8,480.66	8,321.00	8,373.54	8,262.00	26.27	21.75	-81.76	689.47	-145.75	1,023.82	980.24	43.58	23.492									



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft	
Survey Program: 0-MWD												Offset Well Error:		0.00 ft
Reference				Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-136.69	-14.57	-13.73	20.02					
100.00	100.00	100.00	100.00	0.10	0.10	-136.69	-14.57	-13.73	20.02	19.83	0.19	103.582		
200.00	200.00	200.00	200.00	0.32	0.32	-136.69	-14.57	-13.73	20.02	19.38	0.64	31.147		
300.00	300.00	300.00	300.00	0.55	0.55	-136.69	-14.57	-13.73	20.02	18.93	1.09	18.329 CC, ES		
400.00	399.98	400.13	400.11	0.77	0.77	171.12	-13.07	-14.64	21.35	19.81	1.54	13.864		
500.00	499.84	499.90	499.74	0.99	1.00	-175.79	-8.60	-17.33	26.30	24.31	1.99	13.186 SF		
600.00	599.45	598.96	598.41	1.24	1.24	-163.01	-1.22	-21.78	36.37	33.90	2.47	14.714		
700.00	698.70	696.96	695.69	1.51	1.51	-153.97	8.95	-27.91	51.94	48.97	2.98	17.443		
800.00	797.47	794.29	791.93	1.83	1.81	-148.47	21.42	-35.42	72.52	69.00	3.52	20.610		
900.00	895.62	891.35	887.85	2.19	2.13	-146.28	34.11	-43.07	96.42	92.34	4.08	23.649		
1,000.00	993.06	987.70	983.07	2.61	2.45	-145.77	46.71	-50.66	123.16	118.51	4.66	26.438		
1,100.00	1,089.64	1,083.23	1,077.47	3.10	2.78	-146.06	59.21	-58.19	152.69	147.43	5.26	29.017		
1,200.00	1,185.27	1,177.81	1,170.95	3.64	3.11	-146.74	71.58	-65.64	185.00	179.12	5.88	31.441		
1,300.00	1,279.82	1,271.34	1,263.38	4.25	3.43	-147.60	83.81	-73.01	220.13	213.61	6.52	33.754		
1,400.00	1,373.78	1,364.30	1,355.25	4.90	3.76	-148.73	95.97	-80.34	256.73	249.53	7.19	35.687		
1,500.00	1,467.75	1,457.26	1,447.12	5.57	4.09	-149.58	108.12	-87.66	293.39	285.52	7.87	37.280		
1,600.00	1,561.72	1,550.22	1,538.99	6.24	4.41	-150.25	120.28	-94.99	330.09	321.54	8.55	38.594		
1,700.00	1,655.69	1,643.18	1,630.86	6.91	4.74	-150.78	132.44	-102.32	366.82	357.58	9.24	39.698		
1,800.00	1,749.66	1,736.14	1,722.73	7.59	5.07	-151.21	144.60	-109.64	403.58	393.65	9.93	40.636		
1,900.00	1,843.63	1,829.10	1,814.60	8.28	5.40	-151.57	156.76	-116.97	440.35	429.72	10.63	41.442		
2,000.00	1,937.60	1,922.06	1,906.47	8.96	5.74	-151.88	168.92	-124.29	477.13	465.81	11.32	42.142		
2,100.00	2,031.57	2,020.64	2,004.06	9.65	6.03	-152.27	180.88	-131.50	513.50	501.51	11.99	42.836		
2,200.00	2,125.54	2,120.88	2,103.66	10.34	6.28	-152.92	190.48	-137.29	548.71	536.11	12.59	43.575		
2,300.00	2,219.51	2,221.67	2,204.11	11.03	6.50	-153.79	197.50	-141.52	582.81	569.65	13.16	44.297		
2,400.00	2,313.48	2,322.83	2,305.14	11.72	6.69	-154.83	201.87	-144.15	615.88	602.20	13.68	45.026		
2,500.00	2,407.45	2,424.17	2,406.46	12.41	6.85	-156.04	203.58	-145.18	648.01	633.85	14.16	45.776		
2,600.00	2,501.42	2,519.13	2,501.42	13.11	7.00	-157.21	203.60	-145.19	679.71	665.10	14.61	46.514		
2,700.00	2,595.39	2,613.10	2,595.39	13.80	7.15	-158.27	203.60	-145.19	711.63	696.56	15.08	47.197		
2,800.00	2,689.35	2,707.07	2,689.35	14.49	7.31	-159.24	203.60	-145.19	743.76	728.22	15.54	47.851		
2,900.00	2,783.32	2,801.04	2,783.32	15.19	7.47	-160.12	203.60	-145.19	776.06	760.05	16.01	48.475		
3,000.00	2,877.29	2,895.01	2,877.29	15.88	7.63	-160.94	203.60	-145.19	808.52	792.04	16.48	49.069		
3,100.00	2,971.26	2,988.98	2,971.26	16.58	7.80	-161.70	203.60	-145.19	841.12	824.17	16.95	49.634		
3,200.00	3,065.23	3,082.95	3,065.23	17.27	7.97	-162.40	203.60	-145.19	873.84	856.42	17.42	50.170		
3,277.98	3,138.51	3,156.23	3,138.51	17.82	8.10	-162.91	203.60	-145.19	899.43	881.65	17.79	50.570		
3,300.00	3,159.23	3,176.94	3,159.23	17.95	8.14	-163.09	203.60	-145.19	906.59	888.69	17.90	50.644		
3,400.00	3,254.02	3,271.74	3,254.02	18.47	8.31	-163.84	203.60	-145.19	937.23	918.84	18.39	50.954		
3,500.00	3,349.87	3,367.59	3,349.87	18.95	8.49	-164.46	203.60	-145.19	964.73	945.86	18.87	51.132		
3,600.00	3,446.66	3,464.37	3,446.66	19.38	8.67	-164.98	203.60	-145.19	989.03	969.71	19.32	51.191		
3,700.00	3,544.26	3,561.97	3,544.26	19.76	8.86	-165.41	203.60	-145.19	1,010.09	990.34	19.75	51.145		
3,800.00	3,642.56	3,660.27	3,642.56	20.10	9.04	-165.75	203.60	-145.19	1,027.85	1,007.70	20.15	51.002		
3,900.00	3,741.44	3,759.15	3,741.44	20.38	9.23	-166.03	203.60	-145.19	1,042.30	1,021.77	20.53	50.770		
4,000.00	3,840.78	3,858.49	3,840.78	20.62	9.42	-166.23	203.60	-145.19	1,053.39	1,032.52	20.88	50.455		
4,100.00	3,940.46	3,958.17	3,940.46	20.81	9.62	-166.37	203.60	-145.19	1,061.12	1,039.92	21.20	50.061		
4,200.00	4,040.35	4,058.07	4,040.35	20.95	9.81	-166.45	203.60	-145.19	1,065.46	1,043.97	21.49	49.590		
4,277.98	4,118.33	4,136.04	4,118.33	21.03	9.97	-108.56	203.60	-145.19	1,066.49	1,044.80	21.69	49.169		
4,300.00	4,140.34	4,158.06	4,140.34	21.05	10.01	-108.56	203.60	-145.19	1,066.49	1,044.72	21.77	48.997		
4,400.00	4,240.34	4,258.06	4,240.34	21.14	10.21	-108.56	203.60	-145.19	1,066.49	1,044.37	22.12	48.219		
4,500.00	4,340.34	4,358.06	4,340.34	21.23	10.41	-108.56	203.60	-145.19	1,066.49	1,044.02	22.47	47.459		
4,600.00	4,440.34	4,458.06	4,440.34	21.33	10.61	-108.56	203.60	-145.19	1,066.49	1,043.66	22.83	46.715		
4,700.00	4,540.34	4,558.06	4,540.34	21.42	10.81	-108.56	203.60	-145.19	1,066.49	1,043.30	23.19	45.988		
4,800.00	4,640.34	4,658.06	4,640.34	21.52	11.01	-108.56	203.60	-145.19	1,066.49	1,042.94	23.55	45.278		
4,900.00	4,740.34	4,758.06	4,740.34	21.62	11.21	-108.56	203.60	-145.19	1,066.49	1,042.57	23.92	44.585		

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



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,840.34	4,858.06	4,840.34	21.72	11.42	-108.56	203.60	-145.19	1,066.49	1,042.20	24.29	43.907			
5,100.00	4,940.34	4,958.06	4,940.34	21.83	11.62	-108.56	203.60	-145.19	1,066.49	1,041.83	24.66	43.246			
5,200.00	5,040.34	5,058.06	5,040.34	21.94	11.83	-108.56	203.60	-145.19	1,066.49	1,041.46	25.04	42.600			
5,300.00	5,140.34	5,158.06	5,140.34	22.04	12.03	-108.56	203.60	-145.19	1,066.49	1,041.08	25.41	41.969			
5,400.00	5,240.34	5,258.06	5,240.34	22.15	12.24	-108.56	203.60	-145.19	1,066.49	1,040.70	25.79	41.353			
5,500.00	5,340.34	5,358.06	5,340.34	22.27	12.45	-108.56	203.60	-145.19	1,066.49	1,040.32	26.17	40.751			
5,600.00	5,440.34	5,458.06	5,440.34	22.38	12.66	-108.56	203.60	-145.19	1,066.49	1,039.94	26.55	40.163			
5,700.00	5,540.34	5,558.06	5,540.34	22.49	12.86	-108.56	203.60	-145.19	1,066.49	1,039.55	26.94	39.590			
5,800.00	5,640.34	5,658.06	5,640.34	22.61	13.07	-108.56	203.60	-145.19	1,066.49	1,039.17	27.33	39.029			
5,900.00	5,740.34	5,758.06	5,740.34	22.73	13.28	-108.56	203.60	-145.19	1,066.49	1,038.78	27.71	38.482			
6,000.00	5,840.34	5,858.06	5,840.34	22.85	13.49	-108.56	203.60	-145.19	1,066.49	1,038.39	28.10	37.948			
6,100.00	5,940.34	5,958.06	5,940.34	22.97	13.70	-108.56	203.60	-145.19	1,066.49	1,037.99	28.50	37.426			
6,200.00	6,040.34	6,058.06	6,040.34	23.09	13.92	-108.56	203.60	-145.19	1,066.49	1,037.60	28.89	36.916			
6,300.00	6,140.34	6,158.06	6,140.34	23.22	14.13	-108.56	203.60	-145.19	1,066.49	1,037.21	29.28	36.418			
6,400.00	6,240.34	6,258.06	6,240.34	23.34	14.34	-108.56	203.60	-145.19	1,066.49	1,036.81	29.68	35.931			
6,500.00	6,340.34	6,358.06	6,340.34	23.47	14.55	-108.56	203.60	-145.19	1,066.49	1,036.41	30.08	35.456			
6,600.00	6,440.34	6,458.06	6,440.34	23.60	14.76	-108.56	203.60	-145.19	1,066.49	1,036.01	30.48	34.991			
6,700.00	6,540.34	6,558.06	6,540.34	23.73	14.98	-108.56	203.60	-145.19	1,066.49	1,035.61	30.88	34.537			
6,800.00	6,640.34	6,658.06	6,640.34	23.86	15.19	-108.56	203.60	-145.19	1,066.49	1,035.21	31.28	34.093			
6,900.00	6,740.34	6,758.06	6,740.34	23.99	15.40	-108.56	203.60	-145.19	1,066.49	1,034.81	31.69	33.659			
7,000.00	6,840.34	6,858.06	6,840.34	24.13	15.62	-108.56	203.60	-145.19	1,066.49	1,034.40	32.09	33.235			
7,100.00	6,940.34	6,958.06	6,940.34	24.26	15.83	-108.56	203.60	-145.19	1,066.49	1,034.00	32.50	32.820			
7,200.00	7,040.34	7,058.06	7,040.34	24.40	16.05	-108.56	203.60	-145.19	1,066.49	1,033.59	32.90	32.414			
7,300.00	7,140.34	7,158.06	7,140.34	24.54	16.26	-108.56	203.60	-145.19	1,066.49	1,033.18	33.31	32.017			
7,400.00	7,240.34	7,258.06	7,240.34	24.68	16.48	-108.56	203.60	-145.19	1,066.49	1,032.77	33.72	31.629			
7,500.00	7,340.34	7,358.06	7,340.34	24.82	16.69	-108.56	203.60	-145.19	1,066.49	1,032.36	34.13	31.249			
7,600.00	7,440.34	7,458.06	7,440.34	24.96	16.91	-108.56	203.60	-145.19	1,066.49	1,031.95	34.54	30.878			
7,700.00	7,540.34	7,558.06	7,540.34	25.11	17.12	-108.56	203.60	-145.19	1,066.49	1,031.54	34.95	30.514			
7,800.00	7,640.34	7,658.06	7,640.34	25.25	17.34	-108.56	203.60	-145.19	1,066.49	1,031.13	35.36	30.158			
7,900.00	7,740.34	7,758.06	7,740.34	25.40	17.55	-108.56	203.60	-145.19	1,066.49	1,030.71	35.78	29.809			
8,000.00	7,840.34	7,858.06	7,840.34	25.54	17.77	-108.56	203.60	-145.19	1,066.49	1,030.30	36.19	29.468			
8,100.00	7,940.34	7,958.06	7,940.34	25.69	17.99	-108.56	203.60	-145.19	1,066.49	1,029.88	36.61	29.134			
8,200.00	8,040.34	8,058.06	8,040.34	25.84	18.20	-108.56	203.60	-145.19	1,066.49	1,029.47	37.02	28.806			
8,300.00	8,140.34	8,158.06	8,140.34	25.99	18.42	-108.56	203.60	-145.19	1,066.49	1,029.05	37.44	28.486			
8,400.00	8,240.34	8,258.06	8,240.34	26.14	18.64	-108.56	203.60	-145.19	1,066.49	1,028.63	37.86	28.172			
8,480.66	8,321.00	8,259.71	8,242.00	26.27	18.64	-108.56	203.60	-145.19	1,069.41	1,031.39	38.02	28.126			



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft	
Survey Program: 0-MWD												Offset Well Error:		0.00 ft
Reference				Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-136.49	-21.85	-20.74	30.13					
100.00	100.00	100.00	100.00	0.10	0.10	-136.49	-21.85	-20.74	30.13	29.94	0.19	155.871		
200.00	200.00	200.00	200.00	0.32	0.32	-136.49	-21.85	-20.74	30.13	29.49	0.64	46.870		
300.00	300.00	300.00	300.00	0.55	0.55	-136.49	-21.85	-20.74	30.13	29.04	1.09	27.582 CC, ES		
400.00	399.98	400.47	400.45	0.77	0.76	163.52	-22.33	-19.05	31.02	29.50	1.53	20.329		
500.00	499.84	500.82	500.66	0.99	0.97	157.98	-23.77	-13.97	33.92	31.96	1.96	17.281		
600.00	599.45	600.93	600.38	1.24	1.21	150.68	-26.14	-5.55	39.31	36.87	2.44	16.125		
700.00	698.70	700.68	699.37	1.51	1.49	143.40	-29.45	6.18	47.58	44.62	2.97	16.033 SF		
800.00	797.47	799.95	797.41	1.83	1.81	137.14	-33.68	21.13	58.94	55.37	3.57	16.501		
900.00	895.62	898.64	894.29	2.19	2.18	132.15	-38.79	39.23	73.37	69.11	4.26	17.208		
1,000.00	993.06	996.63	989.79	2.61	2.60	128.28	-44.76	60.37	90.79	85.74	5.05	17.972		
1,100.00	1,089.64	1,093.84	1,083.72	3.10	3.08	125.27	-51.55	84.43	111.09	105.15	5.94	18.697		
1,200.00	1,185.27	1,190.18	1,175.92	3.64	3.62	122.91	-59.13	111.29	134.17	127.24	6.94	19.343		
1,300.00	1,279.82	1,285.55	1,266.23	4.25	4.22	121.00	-67.47	140.80	159.94	151.90	8.04	19.896		
1,400.00	1,373.78	1,381.50	1,356.40	4.90	4.87	119.79	-76.38	172.35	187.18	177.95	9.23	20.282		
1,500.00	1,467.75	1,477.65	1,446.75	5.57	5.53	118.88	-85.31	204.00	214.49	204.04	10.45	20.534		
1,600.00	1,561.72	1,573.80	1,537.10	6.24	6.21	118.17	-94.25	235.65	241.84	230.16	11.68	20.708		
1,700.00	1,655.69	1,669.95	1,627.45	6.91	6.88	117.61	-103.18	267.29	269.21	256.29	12.92	20.834		
1,800.00	1,749.66	1,766.10	1,717.81	7.59	7.56	117.15	-112.12	298.94	296.60	282.43	14.17	20.927		
1,900.00	1,843.63	1,862.25	1,808.16	8.28	8.25	116.77	-121.06	330.59	324.01	308.58	15.43	20.997		
2,000.00	1,937.60	1,958.40	1,898.51	8.96	8.94	116.44	-129.99	362.24	351.43	334.74	16.69	21.051		
2,100.00	2,031.57	2,054.55	1,988.86	9.65	9.62	116.17	-138.93	393.89	378.86	360.90	17.96	21.094		
2,200.00	2,125.54	2,150.70	2,079.21	10.34	10.32	115.93	-147.86	425.53	406.29	387.06	19.23	21.128		
2,300.00	2,219.51	2,246.85	2,169.56	11.03	11.01	115.72	-156.80	457.18	433.74	413.23	20.50	21.155		
2,400.00	2,313.48	2,343.00	2,259.91	11.72	11.70	115.54	-165.74	488.83	461.18	439.40	21.78	21.178		
2,500.00	2,407.45	2,439.15	2,350.27	12.41	12.39	115.37	-174.67	520.48	488.63	465.58	23.05	21.196		
2,600.00	2,501.42	2,535.30	2,440.62	13.11	13.09	115.23	-183.61	552.12	516.08	491.75	24.33	21.212		
2,700.00	2,595.39	2,631.45	2,530.97	13.80	13.78	115.10	-192.55	583.77	543.54	517.93	25.61	21.225		
2,800.00	2,689.35	2,727.60	2,621.32	14.49	14.48	114.98	-201.48	615.42	571.00	544.11	26.89	21.236		
2,900.00	2,783.32	2,823.75	2,711.67	15.19	15.17	114.87	-210.42	647.07	598.46	570.29	28.17	21.245		
3,000.00	2,877.29	2,919.90	2,802.02	15.88	15.87	114.77	-219.35	678.72	625.92	596.47	29.45	21.253		
3,100.00	2,971.26	3,016.05	2,892.38	16.58	16.57	114.68	-228.29	710.36	653.38	622.65	30.73	21.260		
3,200.00	3,065.23	3,112.20	2,982.73	17.27	17.26	114.60	-237.23	742.01	680.85	648.83	32.02	21.266		
3,277.98	3,138.51	3,187.18	3,053.19	17.82	17.81	114.54	-244.19	766.69	702.27	669.25	33.02	21.270		
3,300.00	3,159.23	3,208.36	3,073.09	17.95	17.96	114.63	-246.16	773.66	708.28	674.98	33.30	21.272		
3,400.00	3,254.02	3,304.74	3,163.66	18.47	18.66	114.88	-255.12	805.39	734.74	700.26	34.48	21.310		
3,500.00	3,349.87	3,401.80	3,254.86	18.95	19.36	114.86	-264.14	837.33	759.81	724.19	35.62	21.332		
3,600.00	3,446.66	3,509.64	3,356.93	19.38	19.95	114.67	-273.60	870.82	782.80	746.17	36.62	21.376		
3,700.00	3,544.26	3,618.82	3,461.51	19.76	20.48	114.49	-282.10	900.94	803.03	765.51	37.52	21.400		
3,800.00	3,642.56	3,729.20	3,568.39	20.10	20.96	114.30	-289.59	927.47	820.46	782.14	38.33	21.407		
3,900.00	3,741.44	3,840.66	3,677.31	20.38	21.37	114.10	-296.02	950.22	835.03	796.01	39.02	21.398		
4,000.00	3,840.78	3,953.05	3,787.99	20.62	21.73	113.88	-301.32	969.02	846.69	807.07	39.61	21.375		
4,100.00	3,940.46	4,066.21	3,900.10	20.81	22.02	113.66	-305.47	983.70	855.39	815.30	40.09	21.336		
4,200.00	4,040.35	4,179.98	4,013.34	20.95	22.25	113.41	-308.42	994.16	861.11	820.65	40.46	21.282		
4,277.98	4,118.33	4,269.00	4,102.20	21.03	22.39	171.10	-309.88	999.32	863.48	822.81	40.67	21.230		
4,300.00	4,140.34	4,294.17	4,127.35	21.05	22.43	171.04	-310.16	1,000.30	863.85	823.13	40.73	21.210		
4,400.00	4,240.34	4,407.19	4,240.34	21.14	22.54	170.93	-310.66	1,002.08	864.53	823.59	40.94	21.117		
4,500.00	4,340.34	4,507.19	4,340.34	21.23	22.62	170.93	-310.66	1,002.08	864.53	823.40	41.13	21.019		
4,600.00	4,440.34	4,607.19	4,440.34	21.33	22.71	170.93	-310.66	1,002.08	864.53	823.21	41.33	20.920		
4,700.00	4,540.34	4,707.19	4,540.34	21.42	22.80	170.93	-310.66	1,002.08	864.53	823.01	41.52	20.820		
4,800.00	4,640.34	4,807.19	4,640.34	21.52	22.89	170.93	-310.66	1,002.08	864.53	822.81	41.73	20.719		
4,900.00	4,740.34	4,907.19	4,740.34	21.62	22.99	170.93	-310.66	1,002.08	864.53	822.60	41.93	20.617		

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



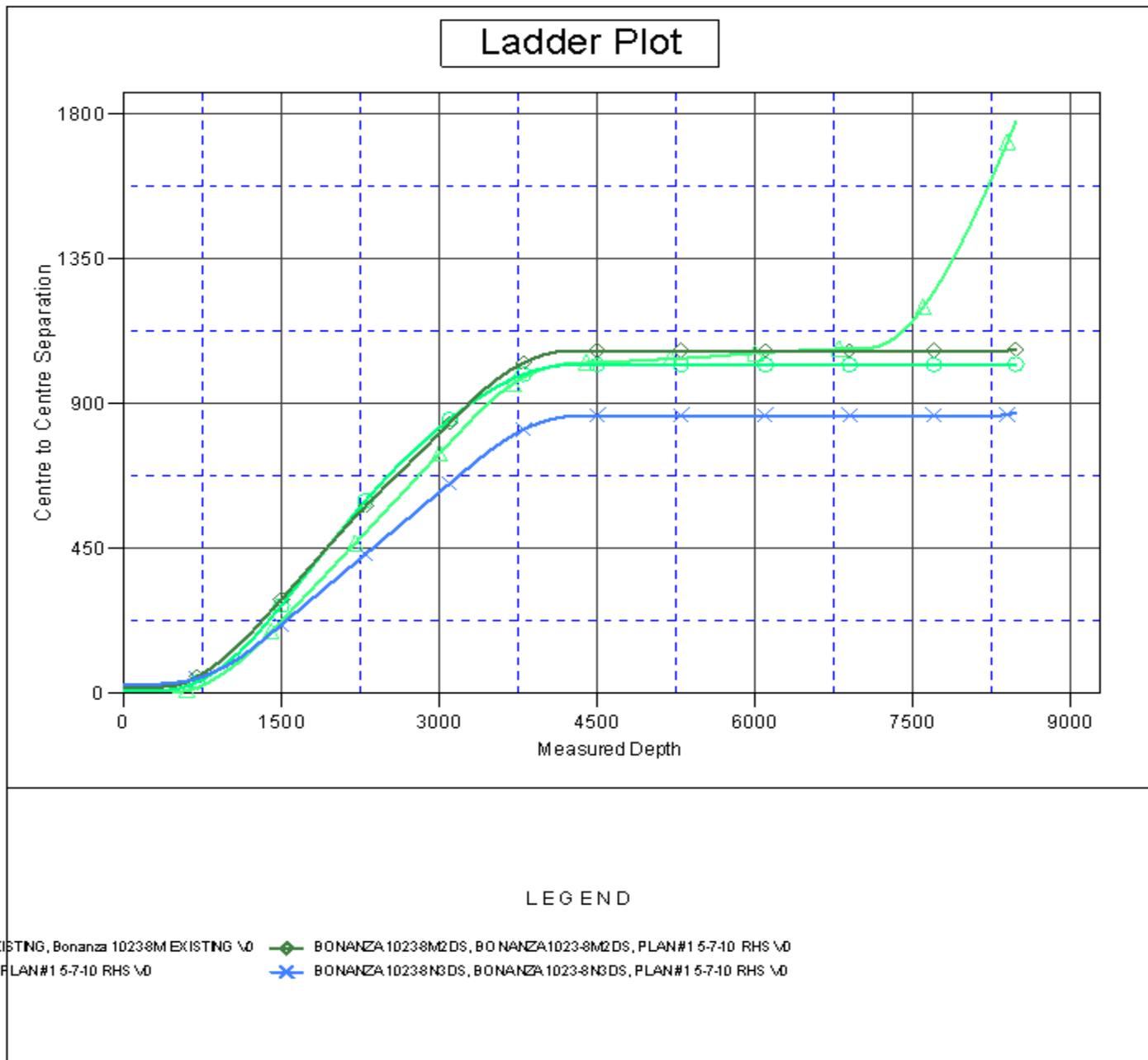
Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft								
Survey Program: 0-MWD												Offset Well Error:		0.00 ft							
Reference												Offset		Semi Major Axis		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor									
5,000.00	4,840.34	5,007.19	4,840.34	21.72	23.08	170.93	-310.66	1,002.08	864.53	822.39	42.14	20.514									
5,100.00	4,940.34	5,107.19	4,940.34	21.83	23.18	170.93	-310.66	1,002.08	864.53	822.17	42.36	20.410									
5,200.00	5,040.34	5,207.19	5,040.34	21.94	23.28	170.93	-310.66	1,002.08	864.53	821.96	42.58	20.306									
5,300.00	5,140.34	5,307.19	5,140.34	22.04	23.38	170.93	-310.66	1,002.08	864.53	821.74	42.80	20.201									
5,400.00	5,240.34	5,407.19	5,240.34	22.15	23.48	170.93	-310.66	1,002.08	864.53	821.51	43.02	20.095									
5,500.00	5,340.34	5,507.19	5,340.34	22.27	23.58	170.93	-310.66	1,002.08	864.53	821.28	43.25	19.989									
5,600.00	5,440.34	5,607.19	5,440.34	22.38	23.69	170.93	-310.66	1,002.08	864.53	821.05	43.48	19.882									
5,700.00	5,540.34	5,707.19	5,540.34	22.49	23.79	170.93	-310.66	1,002.08	864.53	820.81	43.72	19.775									
5,800.00	5,640.34	5,807.19	5,640.34	22.61	23.90	170.93	-310.66	1,002.08	864.53	820.58	43.96	19.668									
5,900.00	5,740.34	5,907.19	5,740.34	22.73	24.01	170.93	-310.66	1,002.08	864.53	820.33	44.20	19.560									
6,000.00	5,840.34	6,007.19	5,840.34	22.85	24.13	170.93	-310.66	1,002.08	864.53	820.09	44.44	19.452									
6,100.00	5,940.34	6,107.19	5,940.34	22.97	24.24	170.93	-310.66	1,002.08	864.53	819.84	44.69	19.344									
6,200.00	6,040.34	6,207.19	6,040.34	23.09	24.35	170.93	-310.66	1,002.08	864.53	819.59	44.94	19.236									
6,300.00	6,140.34	6,307.19	6,140.34	23.22	24.47	170.93	-310.66	1,002.08	864.53	819.33	45.20	19.128									
6,400.00	6,240.34	6,407.19	6,240.34	23.34	24.59	170.93	-310.66	1,002.08	864.53	819.08	45.46	19.019									
6,500.00	6,340.34	6,507.19	6,340.34	23.47	24.71	170.93	-310.66	1,002.08	864.53	818.82	45.72	18.911									
6,600.00	6,440.34	6,607.19	6,440.34	23.60	24.83	170.93	-310.66	1,002.08	864.53	818.55	45.98	18.803									
6,700.00	6,540.34	6,707.19	6,540.34	23.73	24.95	170.93	-310.66	1,002.08	864.53	818.29	46.25	18.694									
6,800.00	6,640.34	6,807.19	6,640.34	23.86	25.07	170.93	-310.66	1,002.08	864.53	818.02	46.51	18.586									
6,900.00	6,740.34	6,907.19	6,740.34	23.99	25.20	170.93	-310.66	1,002.08	864.53	817.75	46.79	18.478									
7,000.00	6,840.34	7,007.19	6,840.34	24.13	25.33	170.93	-310.66	1,002.08	864.53	817.47	47.06	18.370									
7,100.00	6,940.34	7,107.19	6,940.34	24.26	25.45	170.93	-310.66	1,002.08	864.53	817.19	47.34	18.263									
7,200.00	7,040.34	7,207.19	7,040.34	24.40	25.58	170.93	-310.66	1,002.08	864.53	816.91	47.62	18.156									
7,300.00	7,140.34	7,307.19	7,140.34	24.54	25.71	170.93	-310.66	1,002.08	864.53	816.63	47.90	18.048									
7,400.00	7,240.34	7,407.19	7,240.34	24.68	25.85	170.93	-310.66	1,002.08	864.53	816.35	48.19	17.942									
7,500.00	7,340.34	7,507.19	7,340.34	24.82	25.98	170.93	-310.66	1,002.08	864.53	816.06	48.47	17.835									
7,600.00	7,440.34	7,607.19	7,440.34	24.96	26.11	170.93	-310.66	1,002.08	864.53	815.77	48.76	17.729									
7,700.00	7,540.34	7,707.19	7,540.34	25.11	26.25	170.93	-310.66	1,002.08	864.53	815.48	49.06	17.624									
7,800.00	7,640.34	7,807.19	7,640.34	25.25	26.39	170.93	-310.66	1,002.08	864.53	815.18	49.35	17.518									
7,900.00	7,740.34	7,907.19	7,740.34	25.40	26.52	170.93	-310.66	1,002.08	864.53	814.89	49.65	17.414									
8,000.00	7,840.34	8,007.19	7,840.34	25.54	26.66	170.93	-310.66	1,002.08	864.53	814.59	49.95	17.309									
8,100.00	7,940.34	8,107.19	7,940.34	25.69	26.80	170.93	-310.66	1,002.08	864.53	814.28	50.25	17.205									
8,200.00	8,040.34	8,207.19	8,040.34	25.84	26.95	170.93	-310.66	1,002.08	864.53	813.98	50.55	17.102									
8,300.00	8,140.34	8,307.19	8,140.34	25.99	27.09	170.93	-310.66	1,002.08	864.53	813.68	50.86	16.999									
8,334.18	8,174.52	8,341.37	8,174.52	26.04	27.14	170.93	-310.66	1,002.08	864.53	813.57	50.96	16.964									
8,400.00	8,240.34	8,357.85	8,191.00	26.14	27.16	170.93	-310.66	1,002.08	865.94	814.85	51.09	16.949									
8,480.66	8,321.00	8,357.85	8,191.00	26.27	27.16	170.93	-310.66	1,002.08	874.25	823.03	51.22	17.069									



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

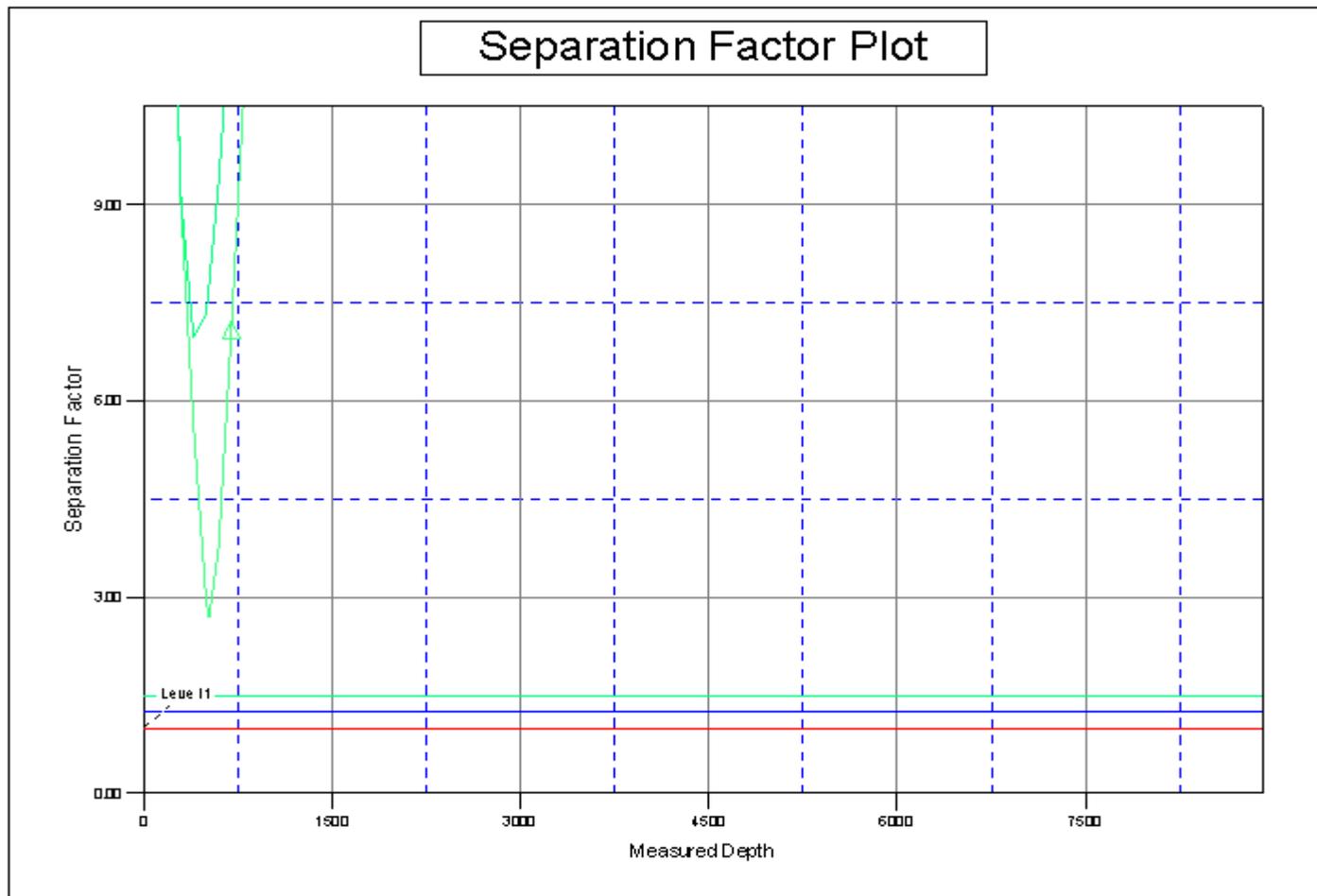
Reference Depths are relative to WELL @ 5313.00ft (Original Well Elev) Coordinates are relative to: BONANZA 1023-8N2BS
 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 1.06°





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8N2BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8M Pad	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8N2BS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8N2BS	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 Elev) Coordinates are relative to: BONANZA 1023-8N2BS
 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

- EXISTING, Bonanza 1023-8M EXISTING \0
- EXISTING, PLAN#1 5-7-10 RHS \0
- BONANZA 1023-8M2DS, BONANZA 1023-8M2DS, PLAN#1 5-7-10 RHS \0
- BONANZA 1023-8N3DS, BONANZA 1023-8N3DS, PLAN#1 5-7-10 RHS \0

Bonanza 1023-8N2BS

Pad: Bonanza 1023-8M

Surface: 531' FSL 683' FWL (SW/4SW/4)

BHL: 1,070' FSL 1,550' FWL (SE/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:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,068'	
Birds Nest	1,338'	Water
Mahogany	1,690'	Water
Wasatch	4,029'	Gas
Mesaverde	6,127'	Gas
MVU2	7,015'	Gas
MVL1	7,588'	Gas
TVD	8,321'	
TD	8,481'	

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 8,321' TVD, approximately equals 5,098 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,267 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Variance for FIT Requirements

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 1,840	28.00	IJ-55	LTC	0.99	2.18	6.69
PRODUCTION	4-1/2"	0 to 8,481	11.60	I-80	BTC	7,780	6,350	278,000
						2.31	1.22	3.24

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.92

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*Buoyn.Fact. of water)
MASP 3,267 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*Buoyn.Fact. of water)
MABHP 5,098 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,340'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	130	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	5,781'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	500	40%	11.00	3.38
	TAIL	2,700'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	570	20%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

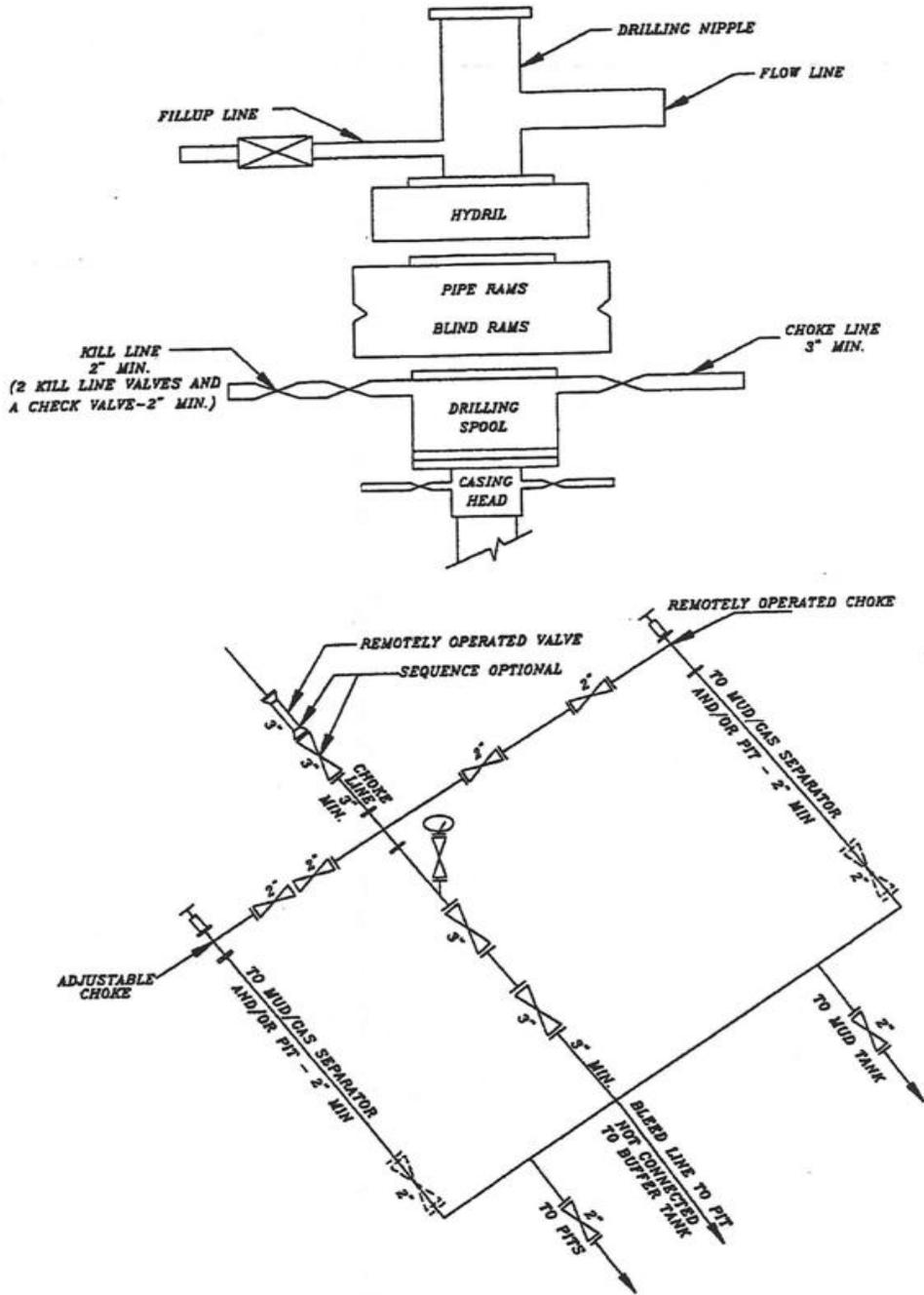
Surveys will be taken at 1,000' minimum intervals.

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

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

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

EXHIBIT A Bonanza 1023-8N2BS

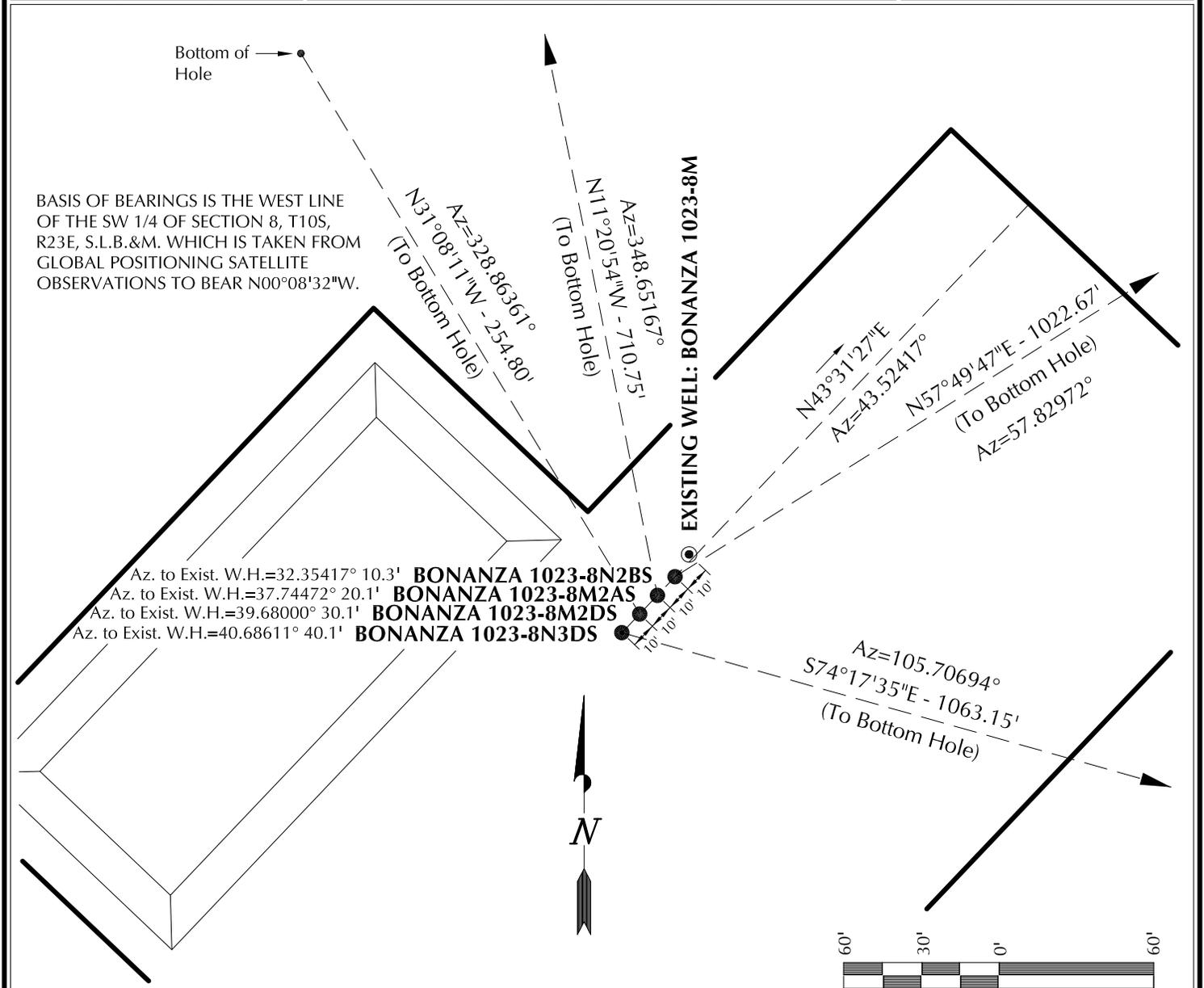


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-8N2BS	39°57'27.639"	109°21'27.597"	39°57'27.761"	109°21'25.153"	531' FSL	39°57'33.009"	109°21'16.475"	39°57'33.131"	109°21'14.031"	1070' FSL
BONANZA 1023-8M2AS	39.957678°	109.357666°	39.957712°	109.356987°	683' FWL	39.959169°	109.354576°	39.959203°	109.353898°	1550' FWL
BONANZA 1023-8M2AS	39.957658°	109.357690°	39.957692°	109.357011°	676' FWL	39.959571°	109.358186°	39.959605°	109.357507°	538' FWL
BONANZA 1023-8M2DS	39°57'27.496"	109°21'27.774"	39°57'27.618"	109°21'25.330"	517' FSL	39°57'29.652"	109°21'29.462"	39°57'29.775"	109°21'27.018"	736' FSL
BONANZA 1023-8N3DS	39.957638°	109.357715°	39.957672°	109.357036°	669' FWL	39.958237°	109.358184°	39.958271°	109.357505°	538' FWL
BONANZA 1023-8N3DS	39°57'27.425"	109°21'27.863"	39°57'27.547"	109°21'25.419"	510' FSL	39°57'24.569"	109°21'14.728"	39°57'24.691"	109°21'12.285"	215' FSL
BONANZA 1023-8M	39.957618°	109.357740°	39.957652°	109.357061°	662' FWL	39.956825°	109.354091°	39.956859°	109.353412°	1685' FWL
BONANZA 1023-8M	39°57'27.725"	109°21'27.526"	39°57'27.847"	109°21'25.083"	540' FSL					
BONANZA 1023-8M	39.957701°	109.357646°	39.957735°	109.356967°	689' 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 1023-8N2BS	544.5'	865.7'	BONANZA 1023-8M2AS	696.8'	-139.9'	BONANZA 1023-8M2DS	218.1'	-131.8'	BONANZA 1023-8N3DS	-287.8'	1023.5'



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WELL PAD - BONANZA 1023-8M

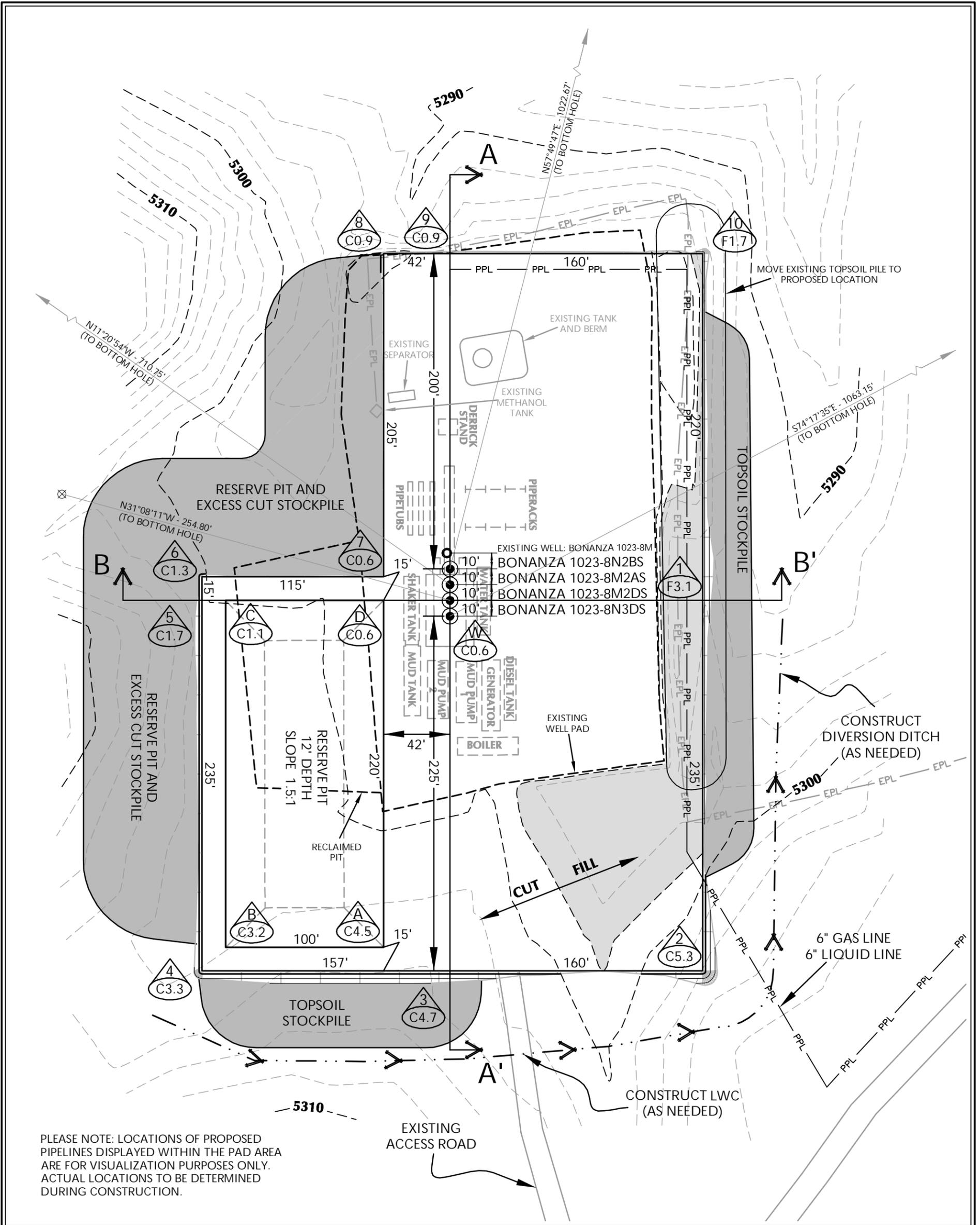
WELL PAD INTERFERENCE PLAT
WELLS - BONANZA 1023-8N2BS,
BONANZA 1023-8M2AS, BONANZA 1023-8M2DS
& BONANZA 1023-8N3DS
LOCATED IN SECTION 8, T10S, R23E,
S.L.B.&M., UTAH COUNTY, UTAH.



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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: 02-23-10	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 02-26-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 06-02-10 E.M.S.	5 OF 18



WELL PAD - BONANZA 1023-8M DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5299.4'
 FINISHED GRADE ELEVATION = 5298.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 2.88 ACRES
 TOTAL DAMAGE AREA = 5.79 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 4,479 C.Y.
 TOTAL FILL FOR WELL PAD = 1,229 C.Y.
 TOPSOIL @ 6" DEPTH = 1,229 C.Y.
 EXCESS MATERIAL = 3,250 C.Y.

RESERVE PIT QUANTITIES
 TOTAL CUT FOR RESERVE PIT +/- 7,410 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 28,150 BARRELS



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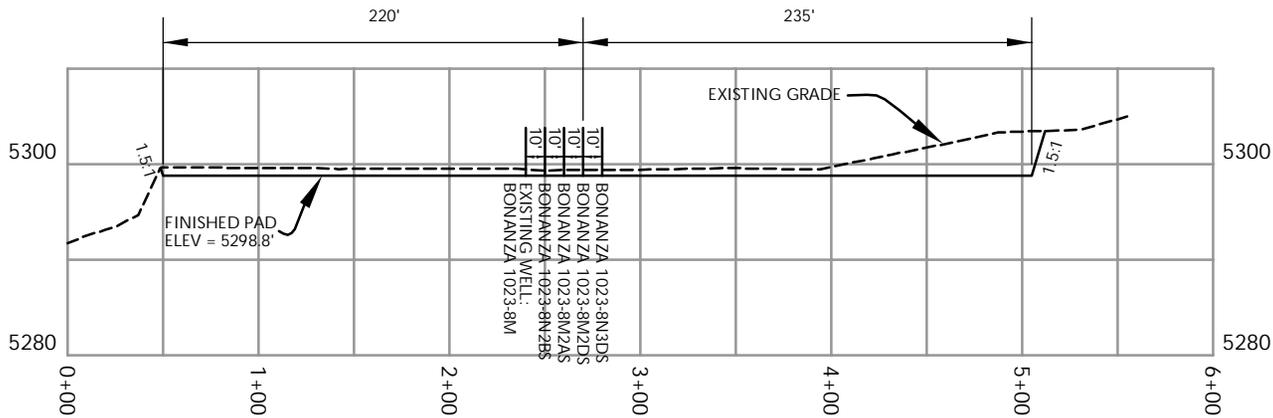
WELL PAD LEGEND

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

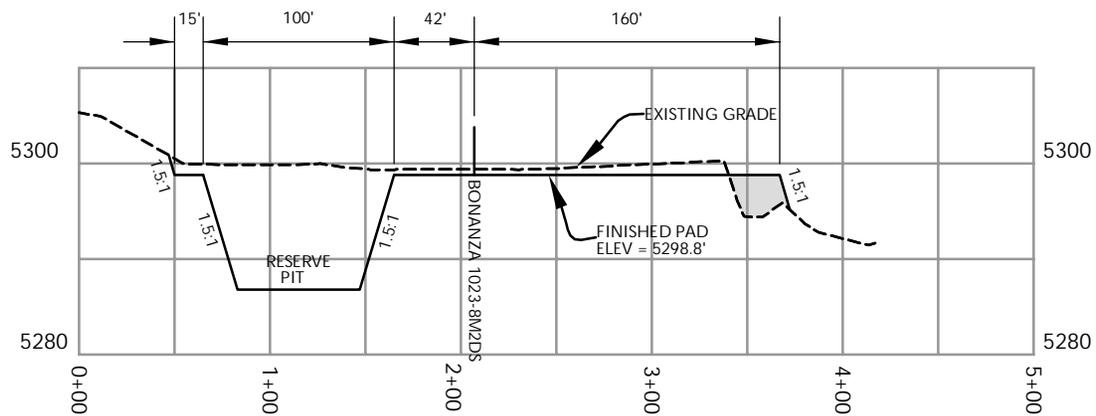


HORIZONTAL 0 30 60 1" = 60'
 2' CONTOURS

Scale: 1"=60' Date: 3/25/10 SHEET NO: 6
 REVISED: SEA 6/18/10 6 OF 18



CROSS SECTION A-A'



CROSS SECTION B-B'

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

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WELL PAD - BONANZA 1023-8M

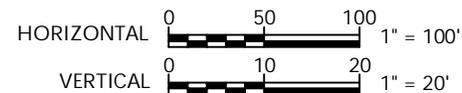
WELL PAD - CROSS SECTIONS
BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
LOCATED IN SECTION 8, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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Scale: 1"=100'

Date: 3/25/10

SHEET NO:

REVISED:

SEA
6/18/10

7

7 OF 18

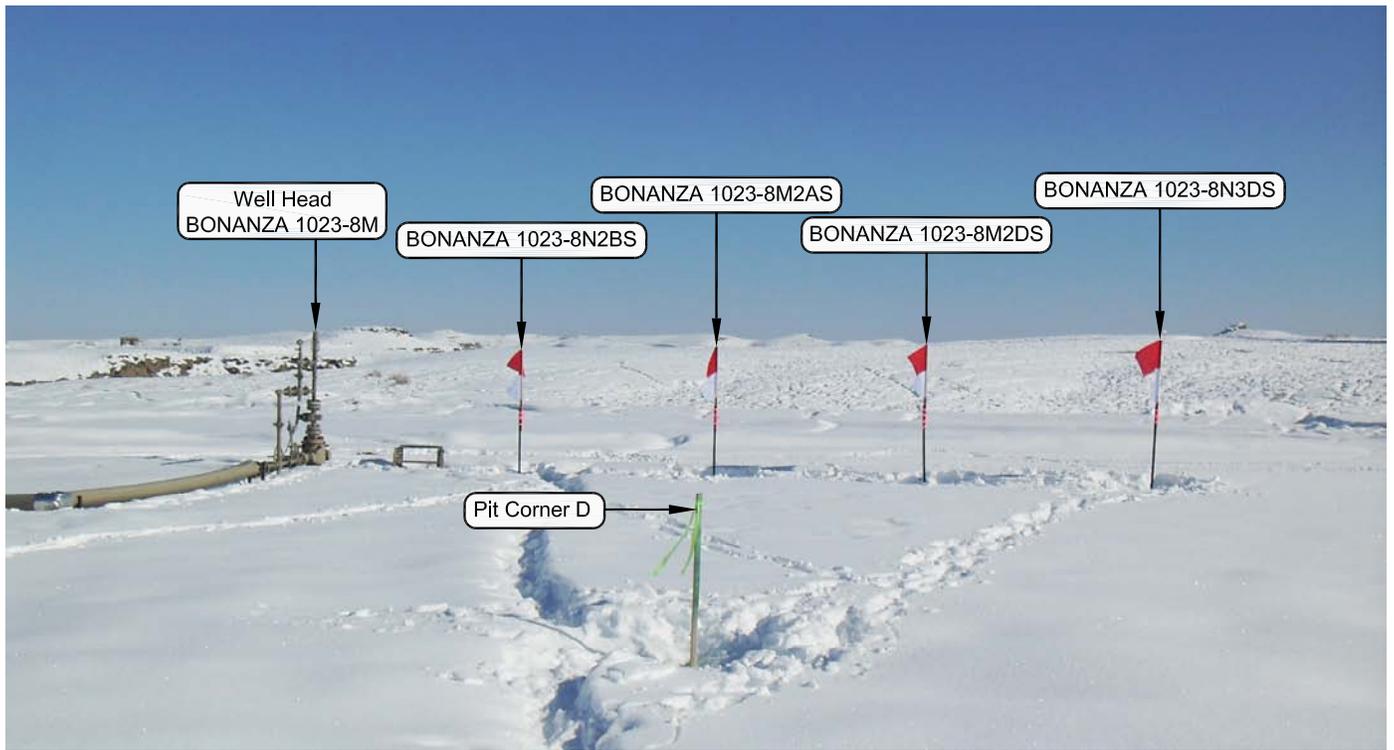


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHEASTERLY

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 1099 18th Street - Denver, Colorado 80202

Well Pad - BONANZA 1023-8M

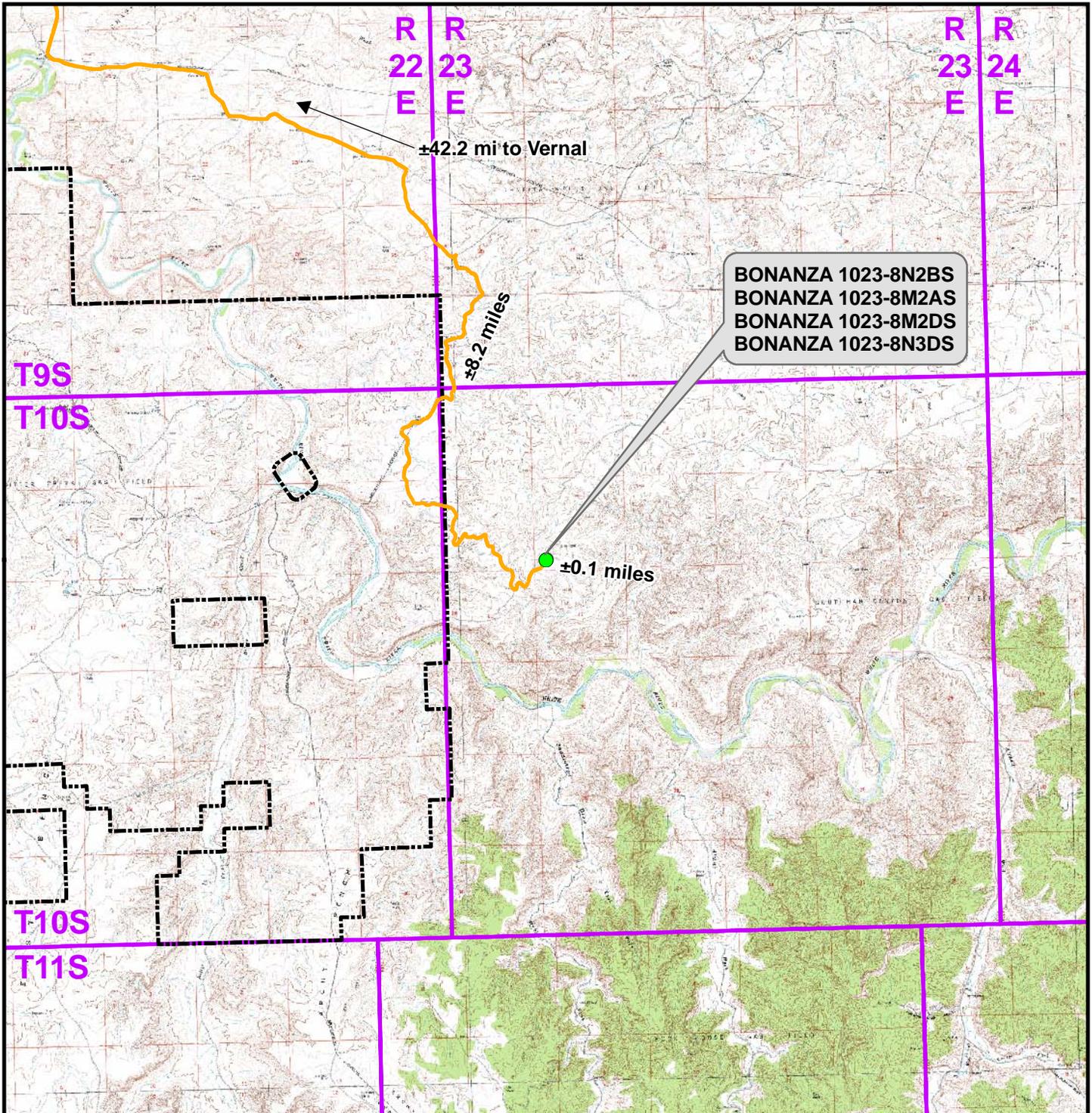
**BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATION PHOTOS
 LOCATED IN SECTION 8, T10S, R23E,
 S.L.B.&M., UINTAH COUNTY, UTAH.**



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

DATE PHOTOS TAKEN: 02-23-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 9 9 OF 18
DATE DRAWN: 02-26-10	DRAWN BY: E.M.S.	
Date Last Revised: 06-02-10 E.M.S.		



Legend

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

Distance From Well Pad - BONANZA 1023-8M To Unit Boundary: ±5,758ft

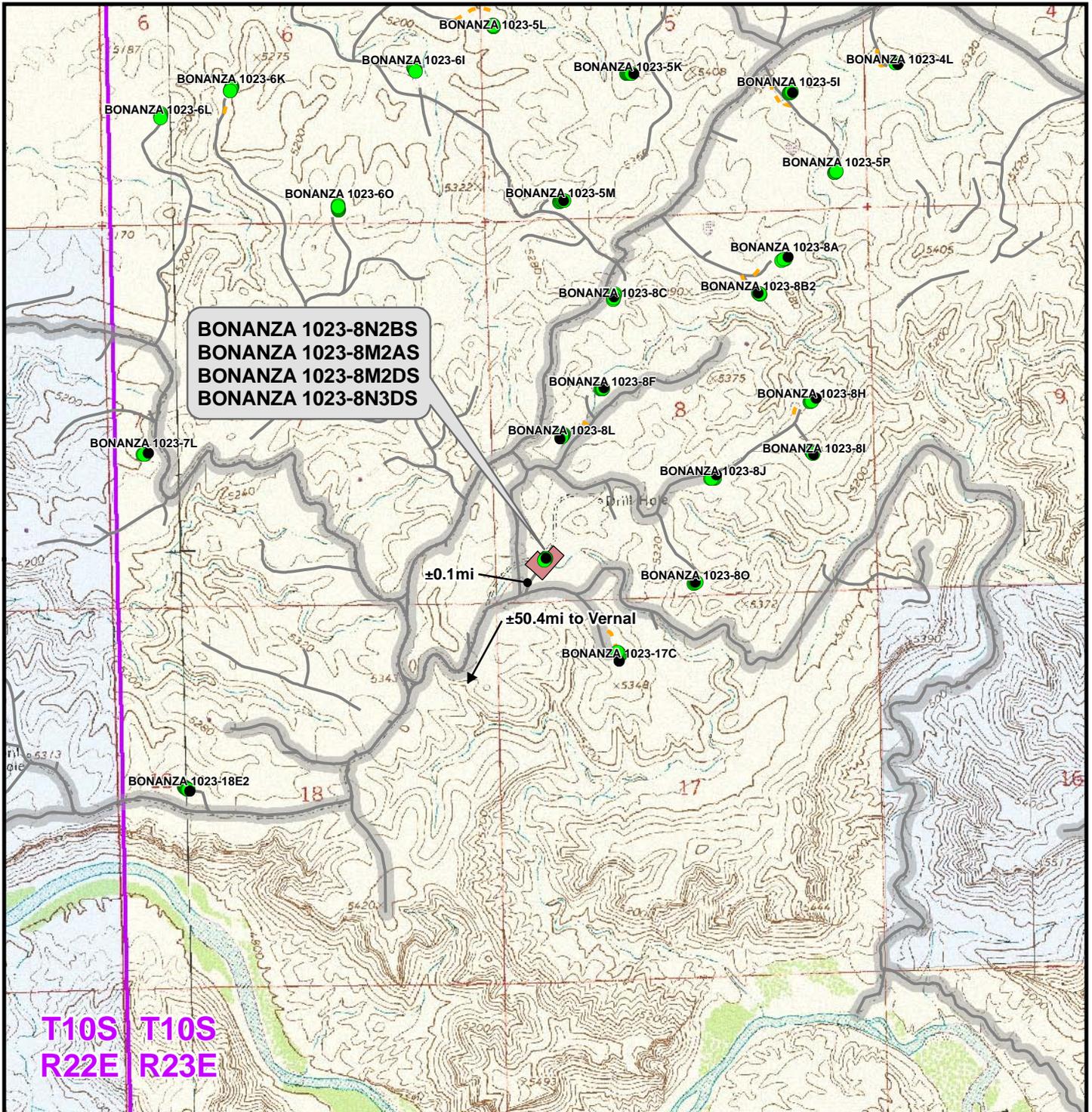
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-8M

TOPO A
 BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATED IN SECTION 8, T10S, R23E
 S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 25 Mar 2010	10
Revised: CPS	Date: 22 June 2010	



Legend

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

Total Proposed Road Length: ±0ft

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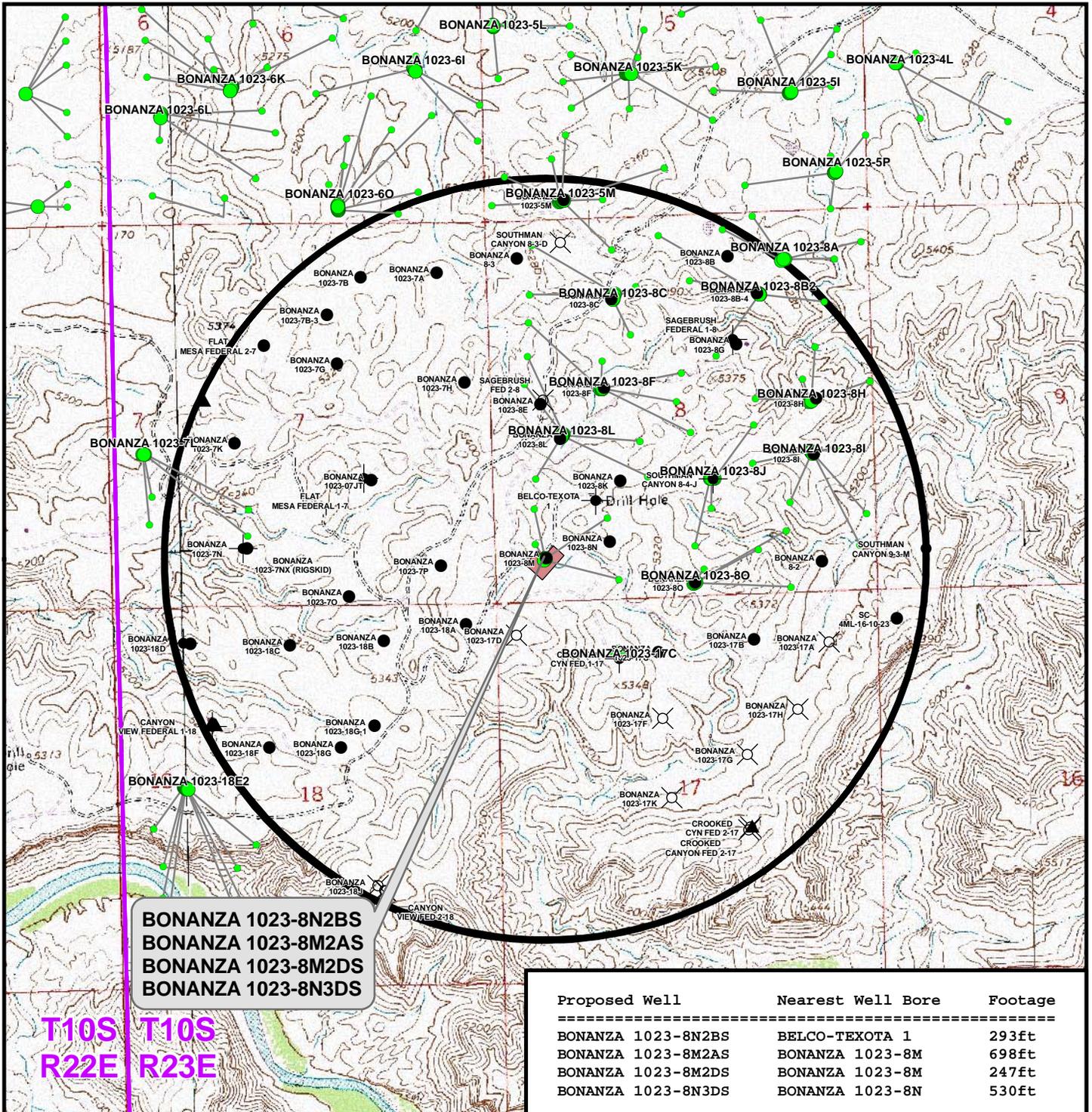
WELL PAD - BONANZA 1023-8M

TOPO B
BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH

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Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 25 Mar 2010	11
Revised: CPS	Date: 22 June 2010	



BONANZA 1023-8N2BS
BONANZA 1023-8M2AS
BONANZA 1023-8M2DS
BONANZA 1023-8N3DS

T10S T10S
R22E R23E

Proposed Well	Nearest Well Bore	Footage
BONANZA 1023-8N2BS	BELCO-TEXOTA 1	293ft
BONANZA 1023-8M2AS	BONANZA 1023-8M	698ft
BONANZA 1023-8M2DS	BONANZA 1023-8M	247ft
BONANZA 1023-8N3DS	BONANZA 1023-8N	530ft

Legend

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

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 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-8M

TOPO C
BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATED IN SECTION 8, T10S, R23E
 S.L.B.&M., UTAH COUNTY, UTAH

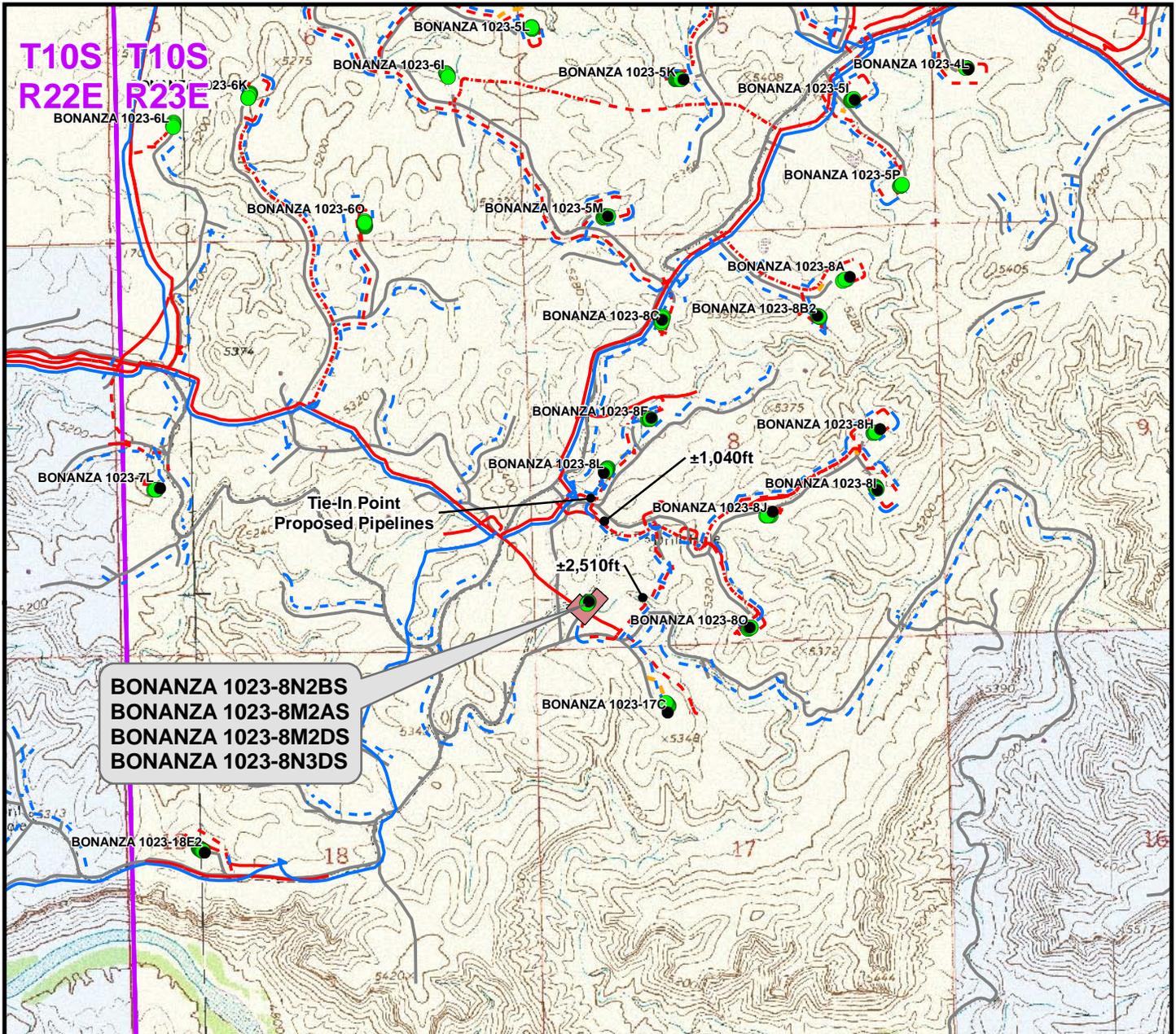
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Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: CPS	Date: 25 Mar 2010
Revised: CPS	Date: 22 June 2010

Sheet No:
12 12 of 18



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±580ft
Proposed 6" (Edge of Pad to Tie-In Point)	±3,550ft
TOTAL PROPOSED LIQUID PIPELINE = ±4,130ft	

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±580ft
Proposed 6" (Edge of Pad to Road Intersection)	±2,510ft
Proposed 12" (Road Intersection to Tie-In Point)	±1,040ft
TOTAL PROPOSED GAS PIPELINE = ±4,130ft	

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

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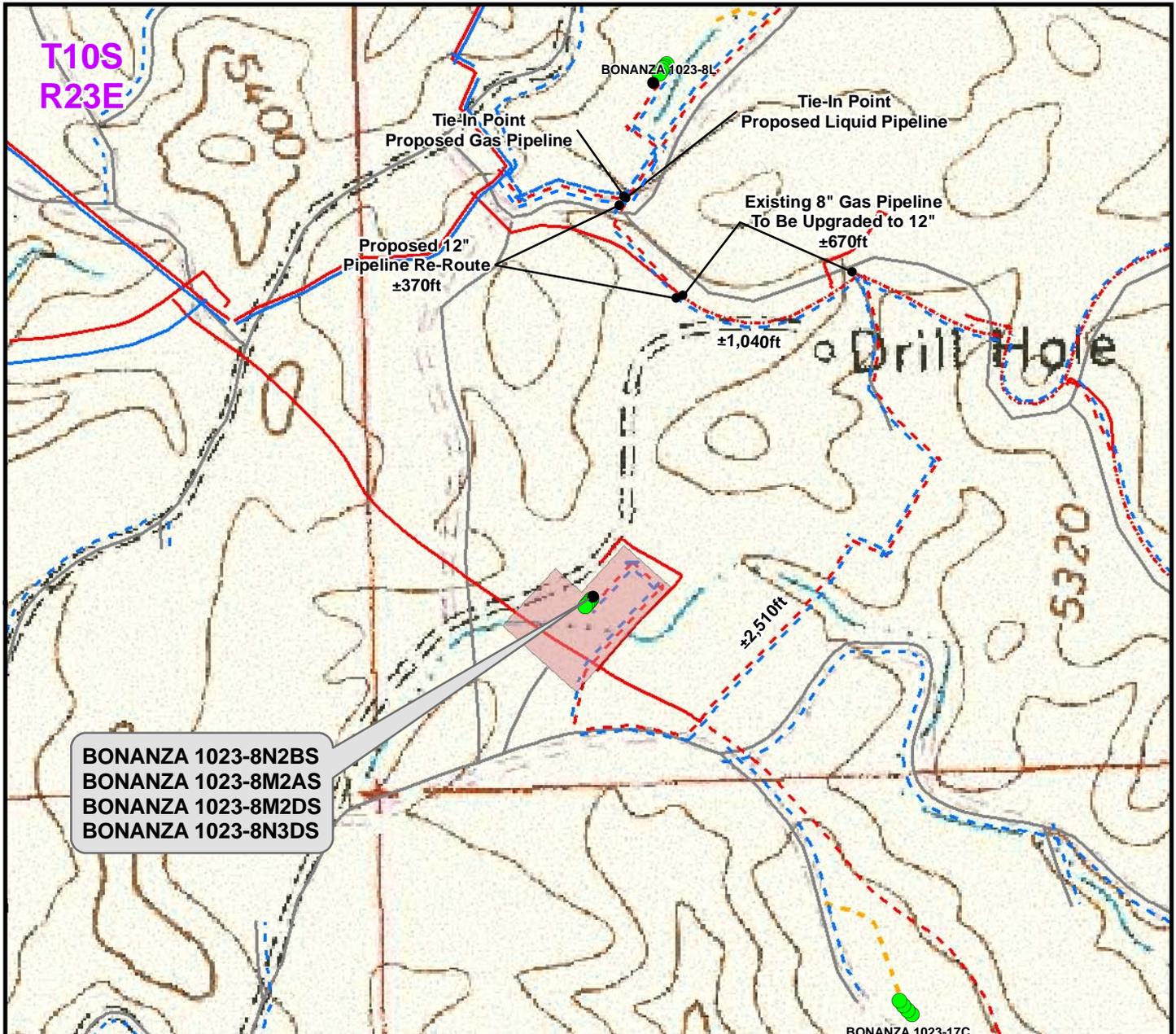
WELL PAD - BONANZA 1023-8M

TOPO D
 BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATED IN SECTION 8, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 25 Mar 2010	13 13 of 18
Revised: CPS	Date: 22 June 2010	



**BONANZA 1023-8N2BS
 BONANZA 1023-8M2AS
 BONANZA 1023-8M2DS
 BONANZA 1023-8N3DS**

Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±580ft
Proposed 6" (Edge of Pad to Tie-In Point)	±3,550ft
TOTAL PROPOSED LIQUID PIPELINE = ±4,130ft	

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±580ft
Proposed 6" (Edge of Pad to Road Intersection)	±2,510ft
Proposed 12" (Road Intersection to Tie-In Point)	±1,040ft
TOTAL PROPOSED GAS PIPELINE = ±4,130ft	

Legend

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

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 1099 18th Street, Denver, Colorado 80202

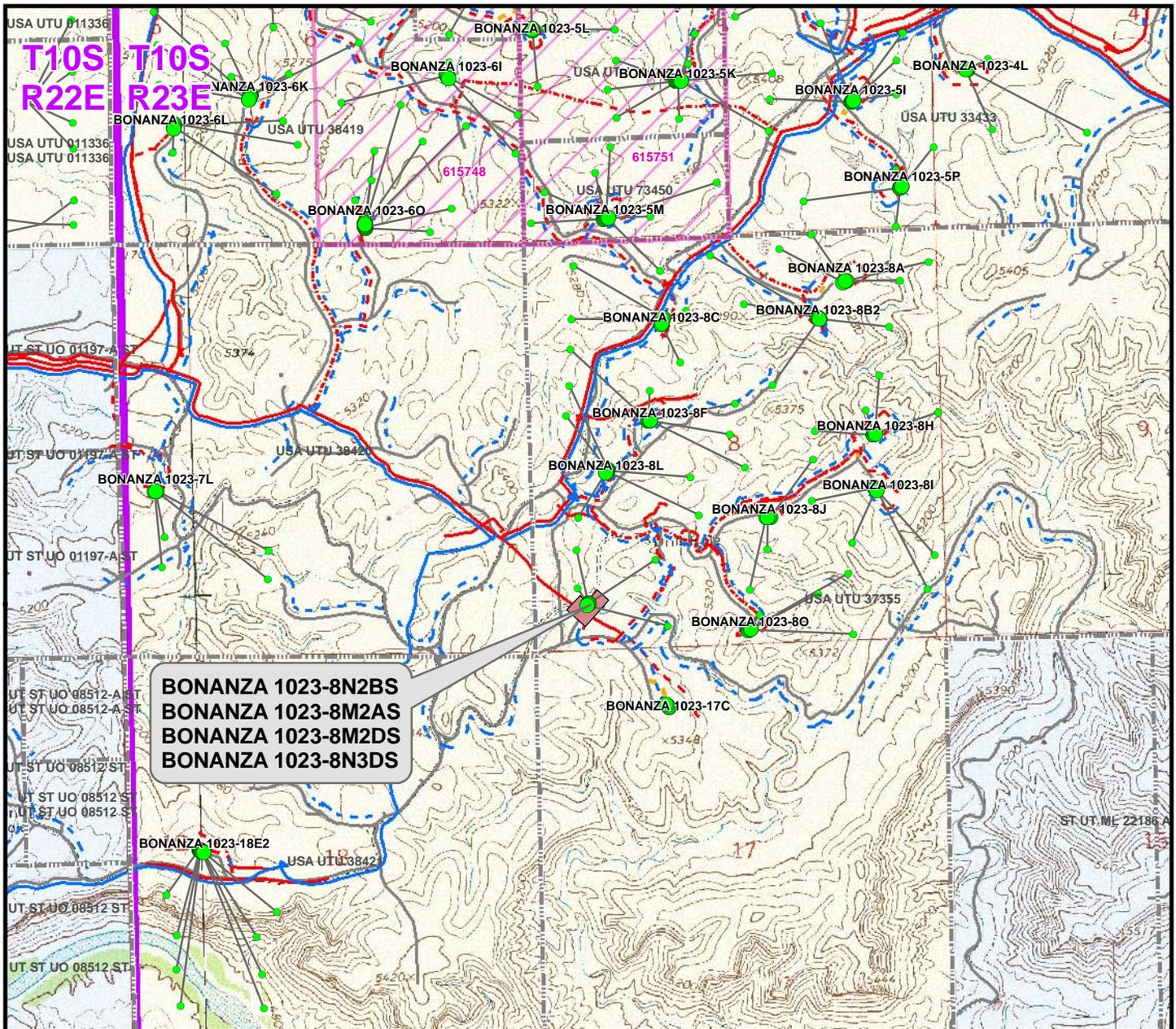
WELL PAD - BONANZA 1023-8M

TOPO D (PAD & PIPELINE DETAIL)
 BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATED IN SECTION 8, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 25 Mar 2010	14 14 of 18
Revised: CPS	Date: 22 June 2010	



**BONANZA 1023-8N2BS
 BONANZA 1023-8M2AS
 BONANZA 1023-8M2DS
 BONANZA 1023-8N3DS**

Proposed Well	Distance to Nearest CA Boundary
BONANZA 1023-8N2BS	4,210ft
BONANZA 1023-8M2AS	4,058ft
BONANZA 1023-8M2DS	4,544ft
BONANZA 1023-8N3DS	5,065ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-8N2BS	1,550ft
BONANZA 1023-8M2AS	538ft
BONANZA 1023-8M2DS	538ft
BONANZA 1023-8N3DS	1,685ft

Legend

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

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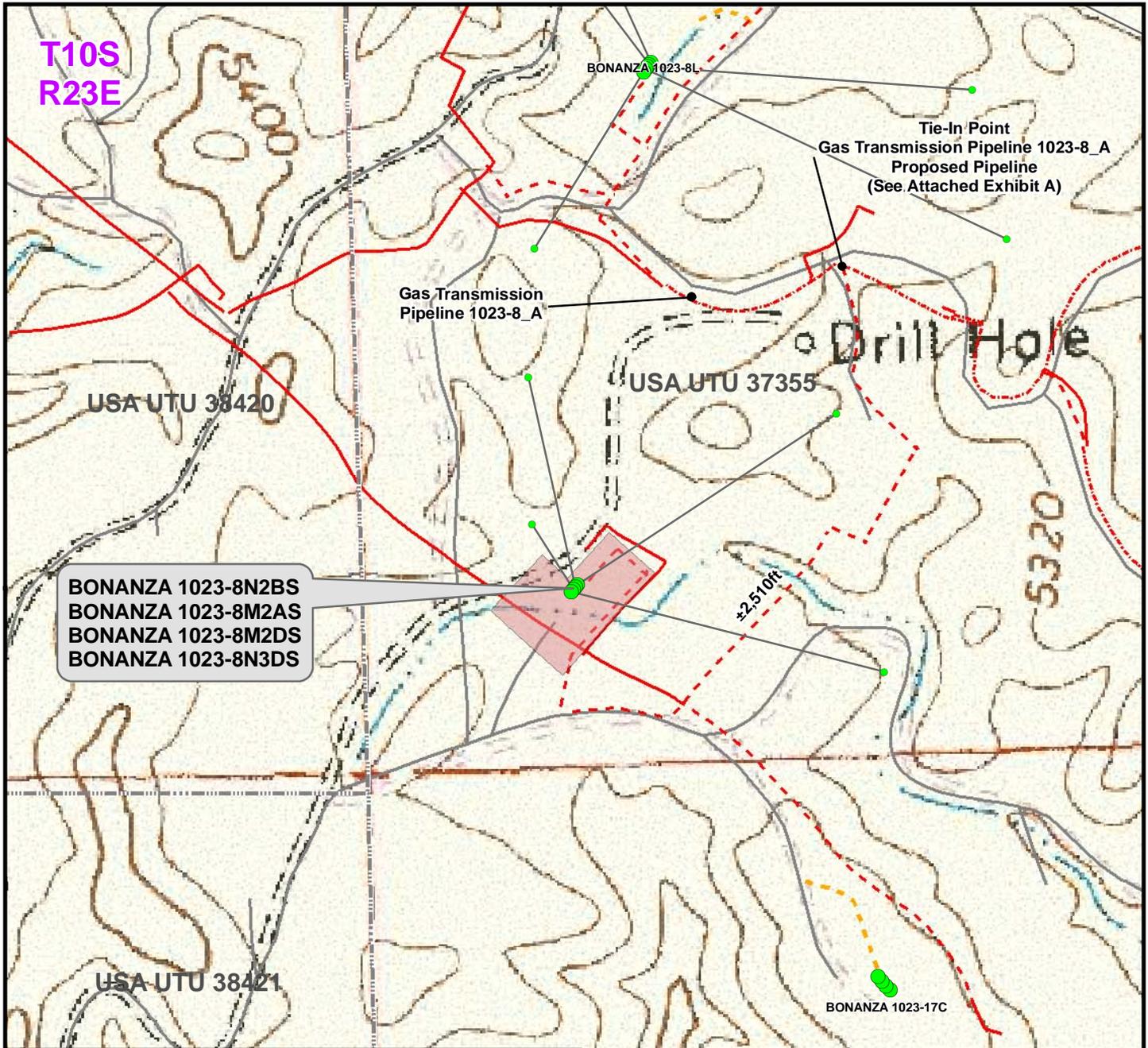
WELL PAD - BONANZA 1023-8M

TOPO E
 BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATED IN SECTION 8, T10S, R23E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 25 Mar 2010	15 15 of 18
Revised: CPS	Date: 22 June 2010	



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

Gas Pipeline	Length	Lease Number
BONANZA 1023-8M	2,510ft	USA UTU 37355
TOTAL: 2,510ft		

Legend

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

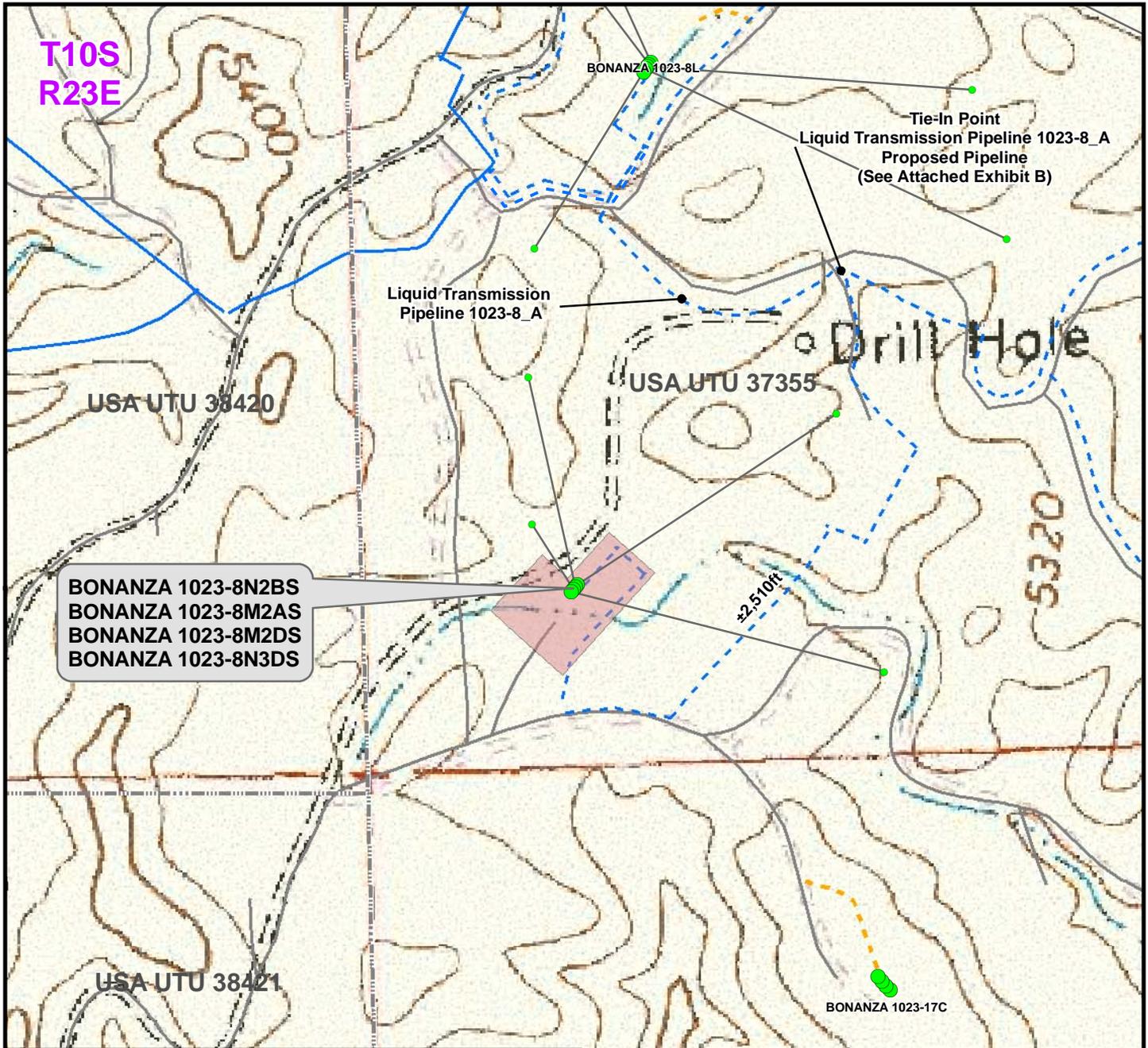
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-8M
 TOPO E (GAS PIPELINE & LEASE DETAIL)
 BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 LOCATED IN SECTION 8, T10S, R23E
 S.L.B.&M., Uintah County, Utah

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Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 22 June 2010	16
Revised:	Date:	



**BONANZA 1023-8N2BS
 BONANZA 1023-8M2AS
 BONANZA 1023-8M2DS
 BONANZA 1023-8N3DS**

±2,510ft

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

Liquid Pipeline	Length	Lease Number
-----	-----	-----
BONANZA 1023-8M	2,510ft	USA UTU 37355
-----	-----	-----
TOTAL: 2,510ft		

Legend

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

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

WELL PAD - BONANZA 1023-8M

TOPO E (LIQUID PIPELINE & LEASE DETAIL)
 BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
 BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
 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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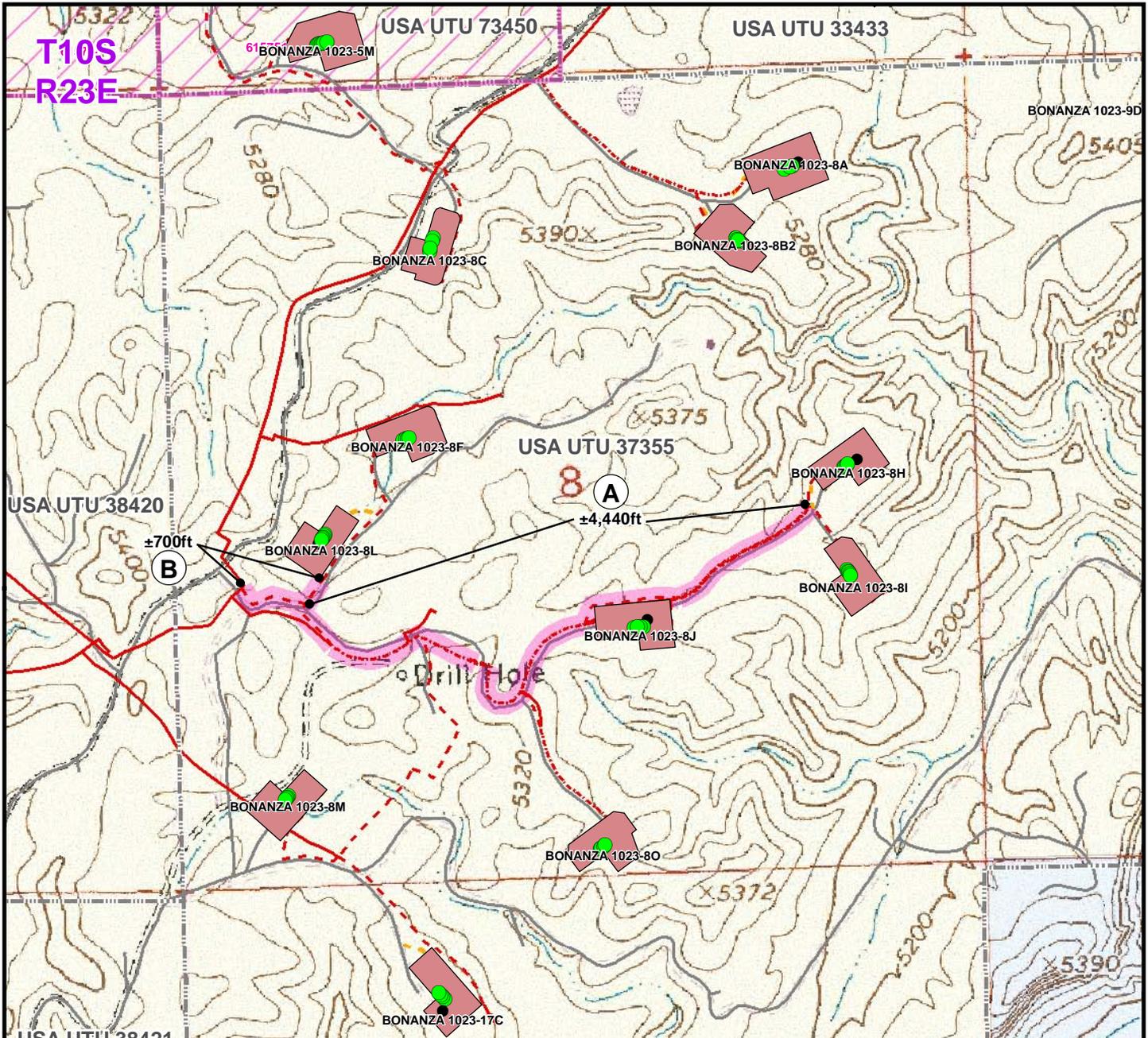


Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 22 June 2010	17
Revised:	Date:	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-8M
WELLS – BONANZA 1023-8N2BS, BONANZA 1023-8M2AS,
BONANZA 1023-8M2DS & BONANZA 1023-8N3DS
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 APPROXIMATELY 14.4 MILES TO THE INTERSECTION OF THE CHIPETA WELLS ROAD (COUNTY B ROAD 3410) WHICH ROAD INTERSECTION IS APPROXIMATELY 400 FEET NORTHEAST OF THE MOUNTAIN FUEL BRIDGE, AT THE WHITE RIVER. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE CHIPETA WELLS ROAD APPROXIMATELY 4.3 MILES TO THE INTERSECTION OF THE ATCHEE WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION ALONG THE ATCHEE WASH ROAD APPROXIMATELY 8.2 MILES TO A SERVICE ROAD TO THE LEFT. EXIT LEFT AND PROCEED ALONG SAID SERVICE ROAD APPROXIMATELY 0.1 MILES TO THE PROPOSED WELL PAD.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.5 MILES IN A SOUTHERLY DIRECTION.



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

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

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

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



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

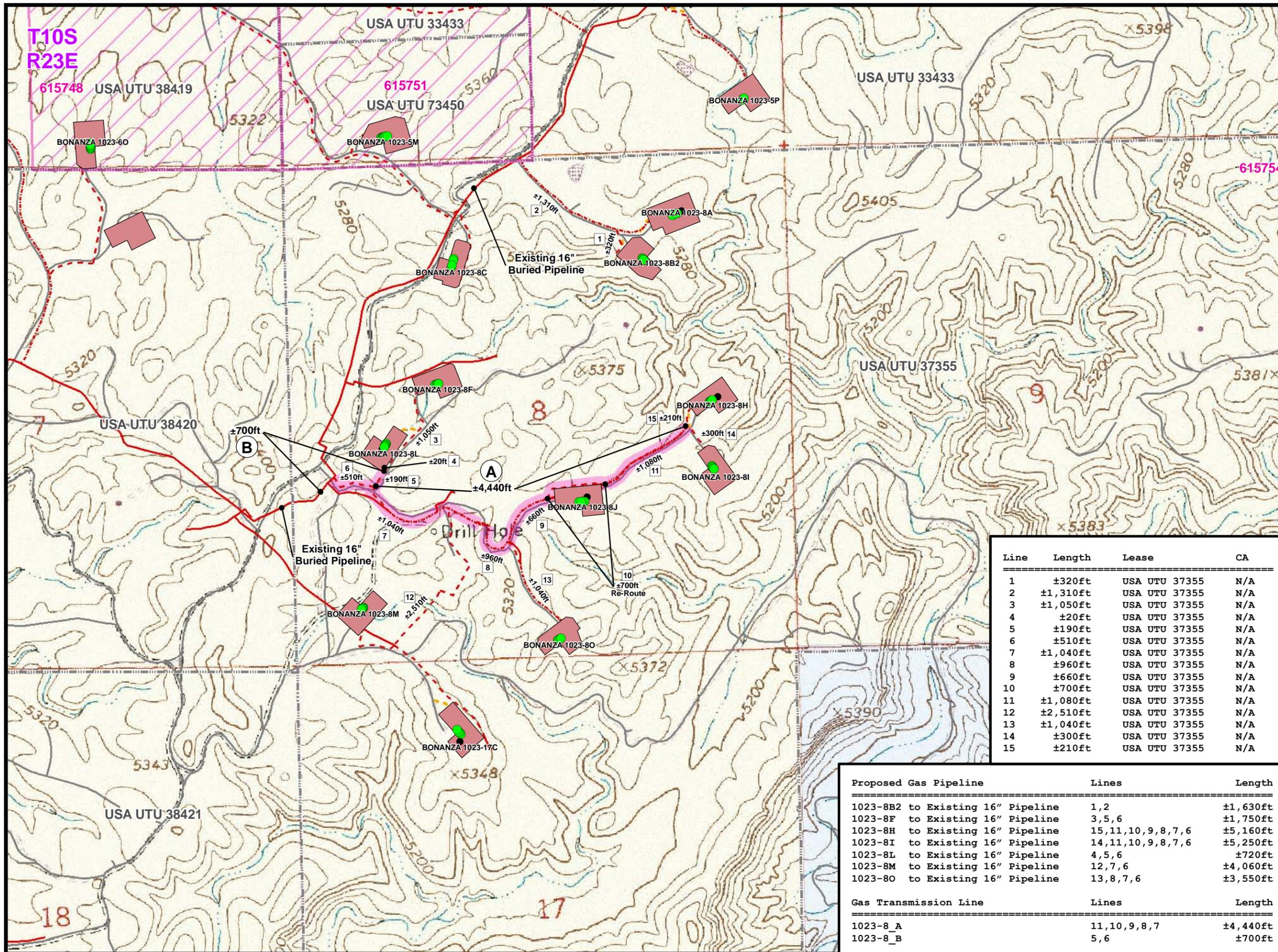
- Well - Proposed
- Well Pad
- - - Water Pipeline - Proposed
- - - Road - Proposed
- Bureau of Land Management
- Well - Existing
- CA Agreement
- - - Water Pipeline - To Be Upgraded
- - - Road - Existing
- Indian Reservation
- Bottom Hole - Proposed
- - - Lease Boundary
- - - Water Pipeline - Existing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

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

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



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



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

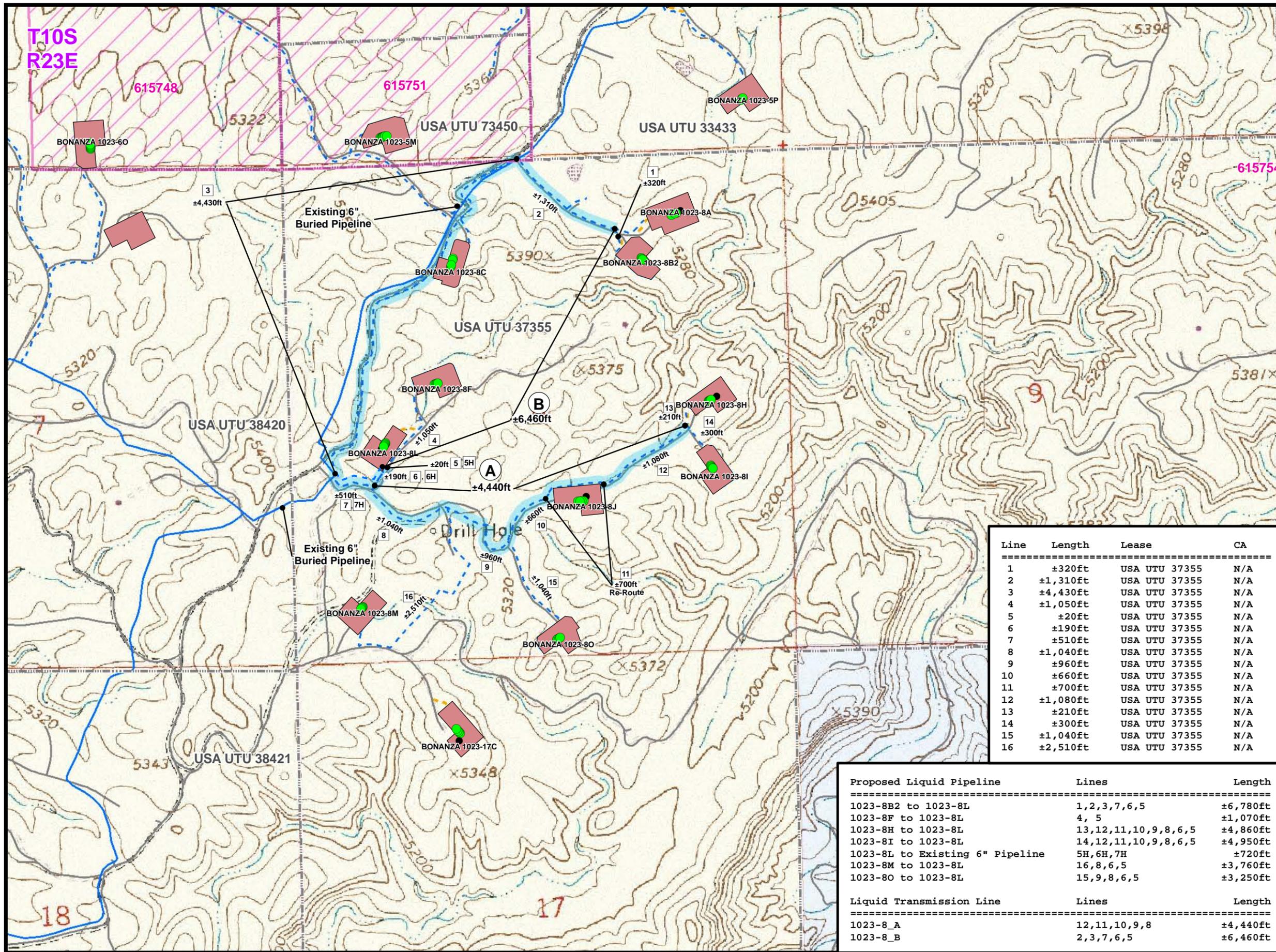
Gas Transmission Line	Lines	Length
1023-8_A	11,10,9,8,7	±4,440ft
1023-8_B	5,6	±700ft

Kerr-McGee Oil & Gas Onshore, LP
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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:



- 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



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

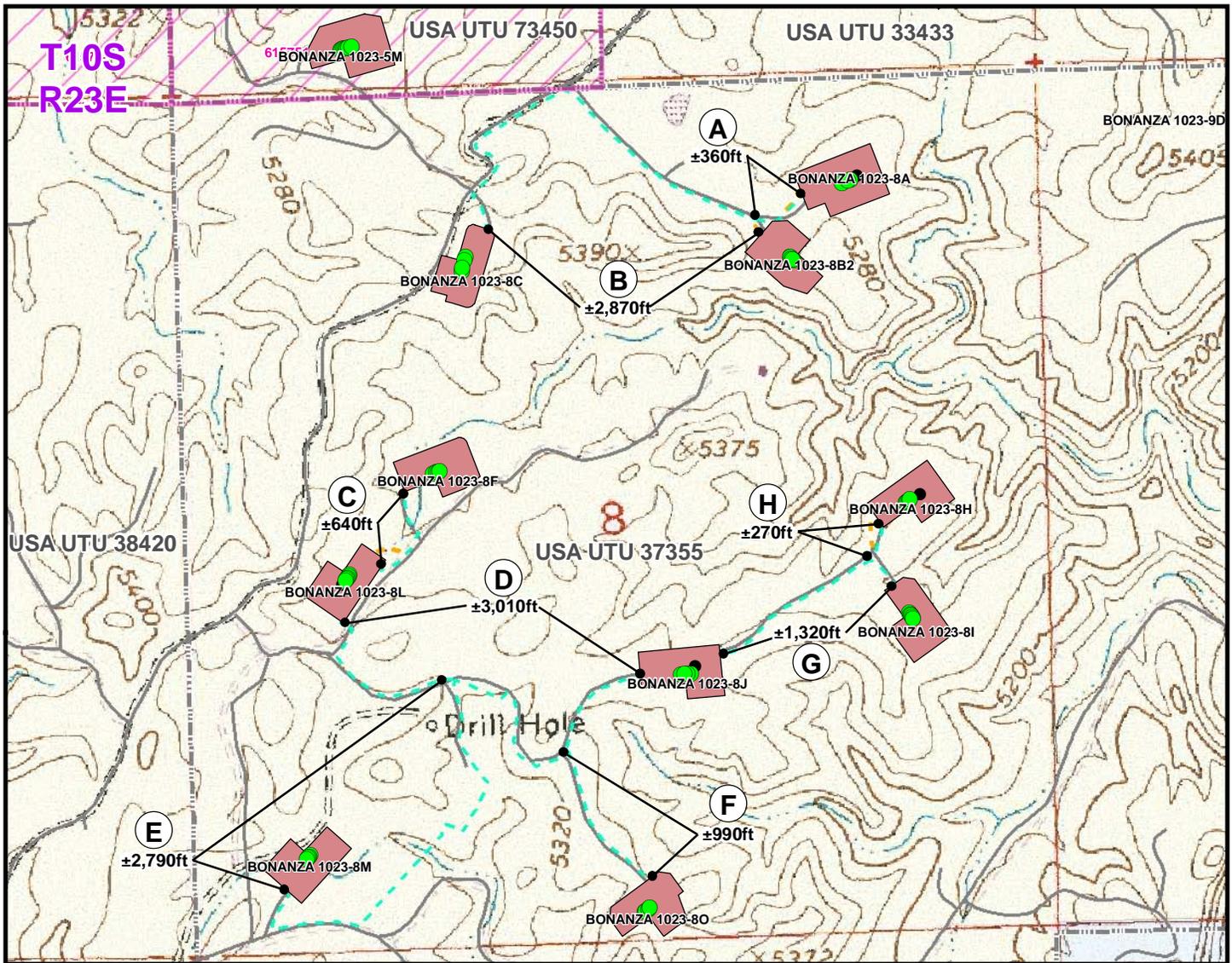
Proposed Liquid Pipeline	Lines	Length
1023-8B2 to 1023-8L	1, 2, 3, 7, 6, 5	±6,780ft
1023-8F to 1023-8L	4, 5	±1,070ft
1023-8H to 1023-8L	13, 12, 11, 10, 9, 8, 6, 5	±4,860ft
1023-8I to 1023-8L	14, 12, 11, 10, 9, 8, 6, 5	±4,950ft
1023-8L to Existing 6" Pipeline	5H, 6H, 7H	±720ft
1023-8M to 1023-8L	16, 8,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

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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:



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

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

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

Kerr-McGee Oil & Gas Onshore LP

Bonanza 1023-8M2AS

Surface: 524' FSL 676' FWL (SW/4SW/4)

BHL: 1,222' FSL 538' FWL (SW/4SW/4)

Bonanza 1023-8M2DS

Surface: 517' FSL 669' FWL (SW/4SW/4)

BHL: 736' FSL 538' FWL (SW/4SW/4)

Bonanza 1023-8N2BS

Surface: 531' FSL 683' FWL (SW/4SW/4)

BHL: 1,070' FSL 1,550' FWL (SE/4SW/4)

Bonanza 1023-8N3DS

Surface: 510' FSL 662' FWL (SW/4SW/4)

BHL: 215' FSL 1,685' FWL (SE/4SW/4)

Pad: Bonanza 1023-8M

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 15, 2010 showing the surface locations in SW/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 Sadler, 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.

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

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and 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 1023-8M, which is a producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records.

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 $\pm 4,060'$ and the individual segments are broken up as follows when starting from the well pad:

- $\pm 580'$ (0.1 miles) – Section 8 T10S R23E (SW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried gas pipeline from the meter to the edge of the pad (please refer to Topo D- Pad and Pipeline Detail).
- $\pm 2,510'$ (0.5 miles) – Section 8 T10S R23E (S/2) – On-lease UTU37355, BLM surface, New 6" buried gas pipeline from the edge of pad to the first tie in point (as shown on Exhibit A Line 12).
- $\pm 1,040'$ (0.2 miles) – Section 8 T10S R23E (S/2) – On-lease UTU37355, BLM surface, $\pm 670'$ of this portion of pipeline starting from the first tie in point for this pad, is an existing 8" pipeline and will be upgraded to a 12" buried gas pipeline. The remaining $\pm 370'$ of this

portion of pipeline will be a new 12" pipeline. The pipeline is proposed from the tie in point for the Bonanza 1023-8M Pad to the tie in point for the Bonanza 1023-8L Pad (as shown on Exhibit A Line 7). 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 and the Bonanza 1023-8O 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 for the Bonanza 1023-8L Pad to the existing 16" buried 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 1023-8F Pad and Bonanza 1023-8L 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 liquids processing facility is ±3,760' and the individual segments are broken up as follows when starting from the well pad:

- ±580' (0.1 miles) – Section 8 T10S R23E (SW/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).
- ±2,510' (0.5 miles) – Section 8 T10S R23E (S/2) – On-lease UTU37355, BLM surface, New 6" buried liquid gathering pipeline from the edge of pad to the first tie in point (as shown on Exhibit B Line 16).
- ±1,040' (0.2 miles) – Section 8 T10S R23E (S/2) – On-lease UTU37355, BLM surface, New 6" buried liquid gathering pipeline proposed from the first tie in point for this pad to the tie in point for the Bonanza 1023-8L Pad (as shown on Exhibit B Line 8). 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 and the Bonanza 1023-8O Pad.
- ±190' (0.04 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried liquid gathering pipeline is proposed from the tie in point for the Bonanza 1023-8L Pad to the tie in point adjacent to the southern corner of the Bonanza 1023-8L pad (as shown on Exhibit B 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 and Bonanza 1023-8O Pad, Bonanza 1023-8L Pad, Bonanza 1023-8A Pad, Bonanza 1023-8B2 Pad and the Bonanza 1023-8C Pad.
- ±20' (0.01 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried liquid gathering pipeline is proposed from the 190' of new pipeline tie in point to the liquids processing facility at the Bonanza 1023-8L pad (as shown on Exhibit B Line 5). 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 1023-8L Pad, Bonanza 1023-8F Pad, Bonanza 1023-8A Pad, Bonanza 1023-8B2 Pad and the Bonanza 1023-8C Pad.

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

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.

None are anticipated.

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 will be completed at a later date.

The following biological field surveys were completed by Grasslands Consulting, Inc. For additional details please refer to report GCI-213:

- 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

July 1, 2010
Date



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 #213

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: Bonanza 1023-8M Pad (Bores: Bonanza 1023-8N2BS, Bonanza 1023-8M2AS, Bonanza 1023-8M2DS, and Bonanza 1023-8N3DS)

Pipeline: Associated pipeline leading to proposed well pad expansion

Access Road: Existing access road (not surveyed)

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.

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

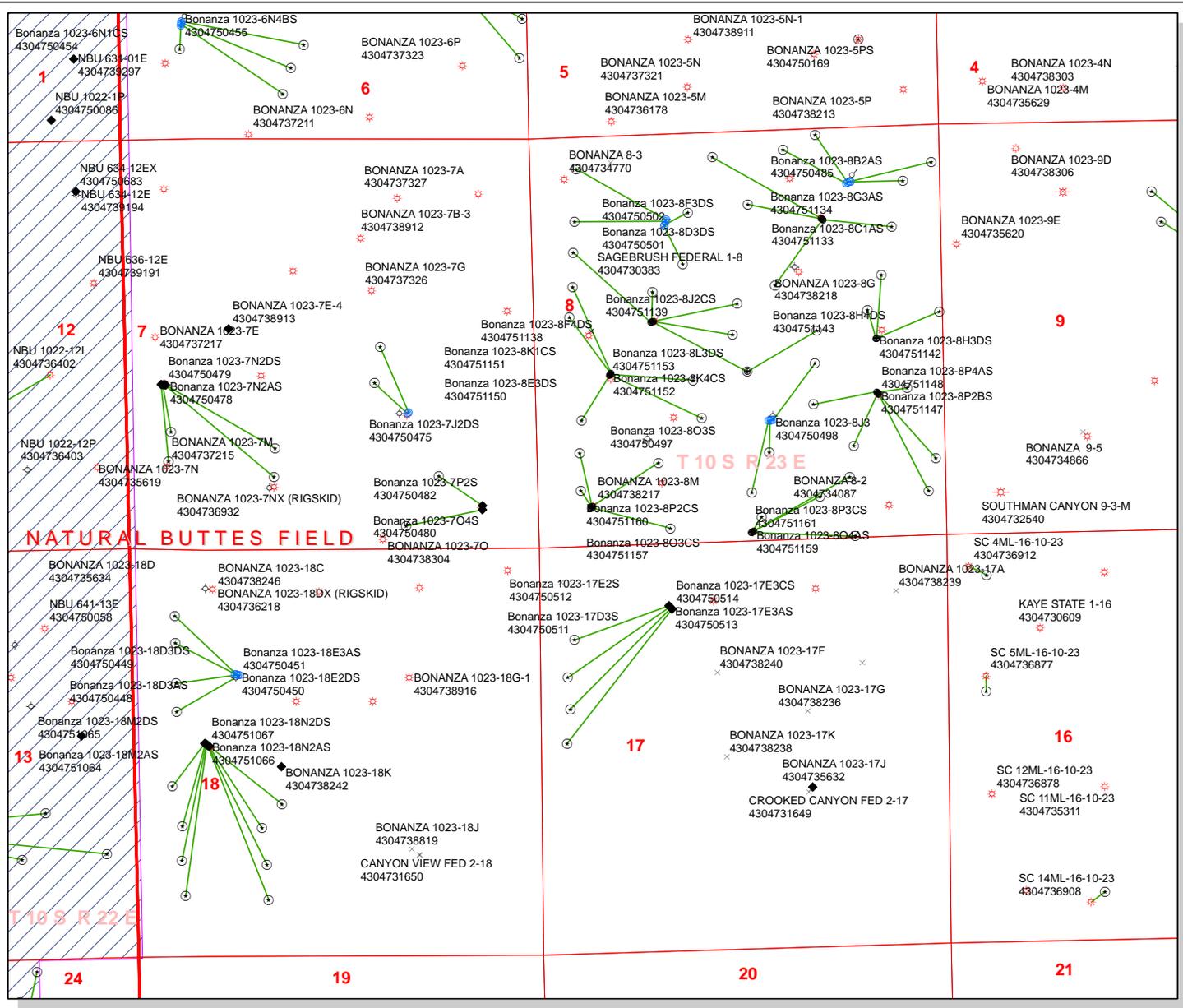
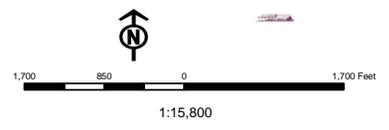
United States Department of Interior (FLPMA)
Permit No. 10-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

API Number: 4304751156
Well Name: Bonanza 1023-8N2BS
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	Wells Query
STATUS	✖ -all other values-
ACTIVE	● Status
EXPLORATORY	⊕ APD - Approved Permit
GAS STORAGE	⊕ DRL - Spudded (Drilling Commenced)
NF PP OIL	⊕ GW - Gas Injection
NF SECONDARY	⊕ GS - Gas Storage
PI OIL	⊕ LA - Location Abandoned
PP GAS	⊕ LOC - New Location
PP GEOTHERML	⊕ OPS - Operation Suspended
PP OIL	⊕ PA - Plugged Abandoned
SECONDARY	⊕ PGW - Producing Gas Well
TERMINATED	⊕ POW - Producing Oil Well
Fields	⊕ RET - Returned APD
Sections	⊕ SGW - Shut-in Gas Well
Township	⊕ SOW - Shut-in Oil Well
	⊕ TA - Temp. Abandoned
	⊕ TW - Test Well
	⊕ WDW - Water Disposal
	⊕ WW - Water Injection Well
	⊕ WSW - Water Supply Well



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 7/2/2010

API NO. ASSIGNED: 43047511560000

WELL NAME: Bonanza 1023-8N2BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWSW 08 100S 230E

Permit Tech Review:

SURFACE: 0531 FSL 0683 FWL

Engineering Review:

BOTTOM: 1070 FSL 1550 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.95752

LONGITUDE: -109.35704

UTM SURF EASTINGS: 640337.00

NORTHINGS: 4424124.00

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**

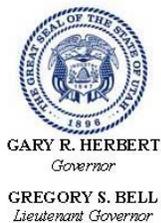
Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



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 1023-8N2BS
API Well Number: 43047511560000
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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JUL 07 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU37355
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT E-Mail: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No.
3a. Address PO BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. BONANZA 1023-8N2BS
3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156		9. API Well No. 43 047 51156
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW 531FSL 683FWL 39.95768 N Lat, 109.35767 W Lon At proposed prod. zone SESW 1070FSL 1550FWL 39.95917 N Lat, 109.35458 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 51 MILES SOUTHEAST OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T10S R23E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1070 FEET	16. No. of Acres in Lease 1920.00	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 293 FEET	19. Proposed Depth 8481 MD 8321 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5299 GL	22. Approximate date work will start 08/02/2010	17. Spacing Unit dedicated to this well 320.00
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 07/02/2010
Title REGULATORY ANALYST I		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date APR 15 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)

Electronic Submission #89028 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal Field Office
Committed to AFMSS for processing by ROBIN R. HANSEN on 07/08/2010

NOTICE OF APPROVAL RECEIVED



APR 21 2011

DIV. OF OIL, GAS & MINING

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



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4401



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	SWSW, Sec. 8, T10S, R23E (S) SESW, Sec. 8, T10S, R23E (B)
Well No:	Bonanza 1023-8N2BS	Lease No:	UTU-37355
API No:	43-047-51156	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:

- All future construction, development, and/or ground disturbing activities must be monitored by a permitted paleontologist at the beginning of construction, development, and/ or ground disturbing activities and thereafter require a spot monitor of those areas as paleontological conditions merit.
- During operations, if any vertebrate paleontological resources are discovered, in accordance with **Section 6 of Form 3100-11** and **43 CFR 3162.1**, all operations affection 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, an a decision as to the preferred alternative/course of action will be rendered.
- 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.
- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticide Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.

- As per conversation with Kerr McGee pipeline personal (Roger Perry). Kerr McGee will notify the BLM of the relinquishment of a portion of the right of way UTU-42531.
- This project will be implemented on or after the APD approval date. If the well has not been spudded by February 5, 2012 this APD 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:

1. Concerning Surface Cement Program - Option 2, cement should be circulated to surface with top off for slippage.

Variances Granted

Air Drilling

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

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

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

OPERATING REQUIREMENT REMINDERS:

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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 1023-8N2BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047511560000	
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: 0531 FSL 0683 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW 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	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/20/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>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.</p>		
		<p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>06/20/2011</u></p> <p>By: <u></u></p>
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 6/16/2011	



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 43047511560000

API: 43047511560000

Well Name: BONANZA 1023-8N2BS

Location: 0531 FSL 0683 FWL QTR SWSW 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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/11/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 The operator requests approval 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: *Derek Quist*

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 7/11/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/8/2011	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 09/08/2011 AT 1000 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/8/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
 Well Name/Number BONANZA 1023-8N2BS
 Qtr/Qtr SW/SW Section 8 Township 10S Range 23E
 Lease Serial Number UTU-37355
 API Number 4304751156

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

Date/Time 09/07/2011 1400 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

SEP 07 2011

DIV. OF OIL, GAS & MINING

Date/Time 09/28/2011 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																														
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON SEPT. 24, 2011. DRILLED SURFACE HOLE TO 2213'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.																																
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100																														
SIGNATURE N/A		TITLE Regulatory Analyst																														
		DATE 9/27/2011																														

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

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751156	BONANZA 1023-8N2BS		SWSW	8	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18218	9/8/2011		9/20/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 09/08/2011 AT 1000 HRS <i>BAL = SESW</i>							

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

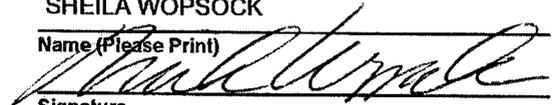
API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

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)

SHEILA WOPSOCK

Name (Please Print)



Signature

REGULATORY ANALYST

9/8/2011

Title

Date

RECEIVED

SEP 16 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047511560000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0531 FSL 0683 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 08 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/29/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: FIT VARIANCE/CLOSE

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

The operator requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well. The operator also requests approval to use a Closed Loop drilling system if available. Please see attachment for details. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 10/06/2011

By: *Derek Quist*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/29/2011	

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 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 1023-8N2BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047511560000	
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: 0531 FSL 0683 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW 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		
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/14/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: RIG REL. - ACTS PIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2213' TO 8427' ON NOV. 11, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED EXTREME RIG 12 ON NOV. 14, 2011 @ 05:30 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/14/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/14/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
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NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/14/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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		STATE: UTAH
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/3/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON JAN. 3, 2012 AT 1:30 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/5/2012	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
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** Contact: JAIME L. SCHARNOWSKE
 Email: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No.
BONANZA 1023-8N2BS

3. Address **PO BOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)
 Ph: 720-929-6304

9. API Well No.
43-047-51156

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **SWSW 531FSL 683FWL 39.957678 N Lat, 109.357666 W Lon**
 At top prod interval reported below **SESW 1117FSL 1528FWL**
 At total depth **SESW 1061FSL 1569FWL**

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 **09/08/2011** 15. Date T.D. Reached **11/11/2011** 16. Date Completed
 D & A Ready to Prod. **01/03/2012** *DHL by HSM*

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

18. Total Depth: MD **8427** TVD **8267** 19. Plug Back T.D.: MD **8375** TVD **8217** 20. Depth Bridge Plug Set: MD **8375** TVD **8217**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/CMI/GR/CCL-BHV-SD/DSN/ACTR 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	8.625 IJ-55	28.0	0	2193		591		0	
7.875	4.500 I-80	11.6	0	8419		1507		4106	

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	7809							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5270	5774	5270 TO 5774	0.360	48	OPEN
B) MESAVERDE	6957	8217	7823 TO 8217	0.360	144	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
5270 TO 8217	PUMP 8,111 BBLs SLICK H2O & 163,725 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
01/03/2012	01/04/2012	24	▶	0.0	866.0	1920.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	609 SI	1139.0	▶	0	866	1920		PGW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #130774 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
FEB 21 2012

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1068
				BIRD'S NEST	1350
				MAHOGANY	1731
				WASATCH	4202
				MESAVERDE	6291

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 #130774 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 02/13/2012

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

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

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011	Spud Date: 9/24/2011
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 5/29/2011	End Date: 11/14/2011
Active Datum: RKB @5,314.00usft (above Mean Sea Level)		UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/24/2011	19:00 - 19:30	0.50	MIRU	01	C	P		MOVE RIG IN OFF THE BONANZA 1023-8M2AS
	19:30 - 20:00	0.50	MIRU	01	B	P		RIG UP PREPARE TO SPUD WELL,P/U MM,M/U 12 1/4" BIT
	20:00 - 22:30	2.50	DRLSUR	02	B	P		SPUD 09/24/2011 20:00. DRILL 12.25" HOLE 44'-210'. (166', 111'/HR) GPM 491. DH RPM 83 RPM=45, WOB 5-15K. PSI ON/OFF 500/350. UP/DOWN/ ROT 32/28/30 K.,CIRC RESERVE W. 8.3# WATER.
9/25/2011	22:30 - 0:00	1.50	DRLSUR	06	A	P		TOH T/P/U DIR TOOLS
	0:00 - 1:30	1.50	DRLSUR	06	A	P		P/U DIR TOOLS & SCRIBE,TIH T/210'
	1:30 - 5:00	3.50	DRLSUR	02	D	P		DRILL 12 1/4" HOLE,ROTATE & SLIDE F/210' T/590'. (380 '@ 108'/HR) GPM 491. DH RPM 83 RPM=45, WOB 18K. PSI ON/OFF 910/650. UP/DOWN/ ROT 32/28/30 K.,CIRC RESERVE W. 8.3# WATER.
9/26/2011	5:00 - 18:00	13.00	DRLSUR	02	D	P		DRILL 12 1/4" HOLE,ROTATE & SLIDE F/590' T/1760'. (1170 '@ 90'/HR) GPM 491. DH RPM 83 RPM=45, WOB 20K. PSI ON/OFF 1300/1065. UP/DOWN/ ROT 62/48/53 K.,CIRC RESERVE W. 8.3# WATER, LOST CIRC @ 1510', RUN AIR AS NEEDED TO MAINTAIN CIRC & RESRVE PIT LEVEL
	18:00 - 0:00	6.00	DRLSUR					DRILL 12 1/4" HOLE,ROTATE & SLIDE F/1760' T/2120'. (360 '@ 60'/HR) GPM 491. DH RPM 83 RPM=45 T/ 55 WOB 15KT/20K PSI ON/OFF 1370/1300. UP/DOWN/ ROT 80/60/69 K.,CIRC RESERVE W. 8.3# WATER, RUN AIR AS NEEDED TO MAINTAIN CIRC & RESRVE PIT LEVEL
	0:00 - 2:00	2.00	DRLSUR	02	D	P		DRILL 12 1/4" HOLE,ROTATE & SLIDE F/2120' T/2213'. (93 '@ 47'/HR) GPM 491. DH RPM 83 RPM=45 T/ 55 WOB 15KT/20K PSI ON/OFF 1370/1300. UP/DOWN/ ROT 84/60/70 K.,CIRC RESERVE W. 8.3# WATER, RUN AIR AS NEEDED TO MAINTAIN CIRC & RESRVE PIT LEVEL(TD 12 1/4" SURF. HOLE @ 02:00)
9/26/2011	2:00 - 3:00	1.00	DRLSUR	05	C	P		CIRC & COND HOLE F/L/D & 8 5/8" 28# SURF. CSG RUN
	3:00 - 7:30	4.50	DRLSUR	06	D	P		LAY DRILL STRING BHA & DIR TOOLS & 12 1/4" SURF. BIT
	7:30 - 8:30	1.00	CSG	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U.
	8:30 - 12:00	3.50	CSG	12	C	P		HOLD SAFETY MEETING. RUN FLOAT,SHOE JNT,BAFFLE & 48 JNTS 8 5/8" 28#J-55 LT&C SURF. CSG W/THE SHOE SET @ 2182' & THE BAFFLE @ 2136'(WASH THE LAST 30' T/BOTTEM)
	12:00 - 13:00	1.00	CSG	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1" PIPE DOWN ANNULUS,. RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH.INSTALL CEMENT HEAD,R/U PRO PETRO CEMENTERS

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
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Event: DRILLING			Start Date: 5/29/2011		End Date: 11/14/2011
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 14:00	1.00	CSG	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 120 BBLs OF WATER AHEAD, NO CIRC, PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 132 BBLs OF H2O. NO CIRC THROUGH OUT CEMENT JOB, FINAL LIFT OF 100 PSI AT 7 BBL/MIN. BUMP PLUG W/600 PSI HELD FOR 5 MIN. FLOAT HELD, NO CEMENT TO SURF.
	14:00 - 14:30	0.50	CSG	12	F	P		TOP OUT THRU 1" PIPE W/150 SKS CLASS "G" 15.8 PPG CEMENT W/4% CACL2 & 1/4#/SK FLOCELE, NO CEMENT TO SURF. (RELEASE RIG @ 14:30 09/26/2011). 09/29/2011 14:00 TOP OUT W/141SKS W/1 BBL TO SURFACE.
11/7/2011	16:00 - 17:00	1.00	MIRU	01	C	P		MOVE CAT WALK FOWARD. SKID RIG FORWARD OVER 4TH WELL ON PAD. CENTER RIG OVER WELL. MOVE CAT WALK BACK. INSTALL CAP ON PREVIOUS WELL HEAD.
	17:00 - 18:00	1.00	MIRU	14	A	P		INSTALL LOCK DOWN RING AND NIPPLE UP BOPE. NIPPLE BACK UP CHOKE FLANGE HOSE. NIPPLE BACK UP FLOW LINE.
	18:00 - 23:00	5.00	MIRU	15	A	P		TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 500 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. INSTALL WEAR BUSHING WITH NO ABNORMAL WEAR.
	23:00 - 0:00	1.00	MIRU	06	A	P		P/U HUNTING .21 RPG 1.5 BH MOTOR (SN 6090). M/U SECURITY FX65M W/ 6-15'S (SN 11673334). SCRIBE MOTOR. MAKE UP DIRECTIONAL TOOLS AND PROGRAM EM TOOL.
11/8/2011	0:00 - 3:30	3.50	MIRU	06	A	P		PROGRAM EM TOOL. TRIP IN WITH 988' OF 4" HWDP. INSTALL ROT HEAD RUBBER. (DEWATERED REMAINING MUD IN PITS TO 8.4 VIS 27.)
	3:30 - 5:00	1.50	MIRU	09	A	P		SLIP AND CUT DRILL LINE.
	5:00 - 6:30	1.50	MIRU	06	A	P		TRIP IN HOLE TAG CEMENT. TAG CEMENT 2076'. PERFORM PRESPUD INSPECTION. HOLD SAFETY MEETING.
	6:30 - 8:00	1.50	DRLPRO	02	F	P		SPUD 11/8/2011 06:30. DRILL CEMENT AND FLOAT EQUIPMENT FROM 2076'-2224'. SHOE @ 2193'.
	8:00 - 15:30	7.50	DRLPRO	02	D			DRILL SLIDE 2224'-3405' (1181', 157'/HR) (WOB 15-22K. AVE WOB-19K. RPM 50. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2150/1700. 450 DIFF. TORQUE ON/OFF 7800/4000. STRING WT UP/DOWN/ROT 100/65/90. DRAG 20K. HOLD TANGENT OF 20 DEGREES FOR 900' AND THEN START DROP. SLIDE 230' @ 140' HR. SLIDE 19% ROT 81%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER. NO SEEPAGE AND NO FLARES. (BOP DRILL 80 SEC)
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. SERVICE PUMPS.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH			Site: BONANZA 1023-8M PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING			Start Date: 5/29/2011		End Date: 11/14/2011
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 23:30	7.50	DRLPRO	02	D	P		DRILL SLIDE 3405'-4392' (987', 132'/HR) (WOB 15-22K. AVE WOB-20K. RPM 50. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2250/1850.400 DIFF. TORQUE ON/OFF 8500/5500. STRING WT UP/DOWN/ROT 122/90/102. DRAG 20K. SLIDING UP DURING DROP. SLIDE 165' @ 65' HR. SLIDE 16% ROT 84%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER. NO SEEPAGE AND NO FLARES.
	23:30 - 0:00	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE TOP DRIVE AND PUMPS.
11/9/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4393'- 5202' (809', 134'/HR) WOB 15-22K. AVE WOB-20K. RPM 50. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2450/2000.400 DIFF. TORQUE ON/OFF 9000/5500. STRING WT UP/DOWN/ROT 125/100/112. DRAG 13K. . SLIDE 61' @ 65' HR. SLIDE 7% ROT 93% FINISHED DROP @ 4651'. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER WT 8.5 VIS 27. 3' FLARE ON CONNECTION GAS (HOLE SEEPING 15 BBLs HR, TOTAL LOSSES 90 BBLs)
	6:00 - 10:00	4.00	MAINT	08	B	Z		TOP DRIVE SHORTED OUT. PULL OUT TO 5000'. CIRC @ 300 GPM WHILE TROUBLE SHOOTING PROBLEM. TOP DRIVE HAD SHORTED WIRES IN CONTROL BOX THAT CONTROLS TORQUE.. WAIT FOR ELECTRICIAN.
	10:00 - 12:00	2.00	MAINT	08	B	Z		TRANSFER 50 BBLs OF 11.5 MUD TO PILL TANK AND PUMP FOR DRY JOB AND TO CONTROL GAS. TRIP TO SHOE.
	12:00 - 15:00	3.00	MAINT	08	B	Z		DO REPAIRS TO TOP DRIVE WITH C & G ELECTRICIAN. XTREME ELECTRICIAN ON ROUTE FROM CHEYENNE. REWIRE TOP DRIVE.
	15:00 - 18:00	3.00	MAINT	08	B	Z		TRIP IN HOLE. BRIDGED OUT AT 4900'. BIT WAS BIT STUCK. TIED ON WITH TOP DRIVE AND WORKED BIT FREE.
	18:00 - 19:00	1.00	MAINT	08	A	Z		WASH AND REAM FROM 4900'-5202'. 5'-15' FLARE ON BOTTOMS UP.
	19:00 - 0:00	5.00	DRLPRO	02	D	P		DRILL SLIDE 5202'-5763' (561', 112'/HR) WOB 20-25K. AVE WOB-23K. RPM 50. DHRPM 117. SPM 124 GPM-558. ON/OFF PSI 2500/2100.400 DIFF. TORQUE ON/OFF 9000/6000. STRING WT UP/DOWN/ROT 140/105/117. DRAG 23K. . SLIDE 20' @ 65' HR. SLIDE 4% ROT 96%. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER WT 8.4 VIS 27. NO FLARE (HOLE SEEPING 15 BBLs HR, TOTAL LOSSES 75 BBLs)
11/10/2011	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL SLIDE 5763'-6126' (363', 103'/HR) WOB 20-25K. AVE WOB-23K. RPM 50. DHRPM 117. SPM 124 GPM-558. ON/OFF PSI 2525/2125.400 DIFF. TORQUE ON/OFF 10000/6500. STRING WT UP/DOWN/ROT 146/108/123. DRAG 23K. . SLIDE 15' @ 50' HR. SLIDE 4% ROT 96%. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER WT 8.4 VIS 27. NO FLARE (HOLE SEEPING 10 BBLs HR, TOTAL LOSSES 35 BBLs)

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH			Site: BONANZA 1023-8M PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING			Start Date: 5/29/2011		End Date: 11/14/2011
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/NW/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:30 - 4:00	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE TOP DRIVE AND PUMP. WORK PIPE RAMS.
	4:00 - 10:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 6126'-6716' (590', 98'/HR) WOB 20-25K. AVE WOB-23K. RPM 50. DHRPM 117. SPM 124 GPM-558. ON/OFF PSI 2525/2125.400 DIFF. TORQUE ON/OFF 10500/7000. STRING WT UP/DOWN/ROT 145/112/129. DRAG 16K. SLIDE 40' @ 45' HR. SLIDE 7% ROT 93%. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER WT 8.4 VIS 27. NO FLARE (HOLE SEEPING 20 BBLS HR, TOTAL LOSSES 120 BBLS) PUMP 20% GEL AND LCM SWEEP TO CONTROL LOSSES. SLOWED SEEPAGE TO 10 BBLS HR.
	10:00 - 10:30	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE DRAWWORKS. SERVICE TOP DRIVE.
	10:30 - 18:00	7.50	DRLPRO	02	A	P		DRILL SLIDE 6716'-7352' (636', 85'/HR) WOB 20-25K. AVE WOB-23K. RPM 50. DHRPM 117. SPM 124 GPM-558. ON/OFF PSI 2600/2200.400 DIFF. TORQUE ON/OFF 12500/7000. STRING WT UP/DOWN/ROT 160/112/141. DRAG 16K. SLIDE 40' @ 40' HR. SLIDE 6% ROT 94%. RUNNING CENTRIFUGES AND DEWATERING. (HOLE SEEPING 10 BBLS/HR LOSS 75 BBLS) DRILLING W/ WATER WT 8.4 VIS 27. 3' CONNECTION FLARE FROM 6700'. PUP SERVICE PUMPS AND GENERATORS.
	18:00 - 18:30	0.50	DRLPRO	07	A	P		
	18:30 - 20:00	1.50	DRLPRO	02	D	P		DRILL SLIDE 7352'-7489' (137', 91'/HR) WOB 20-25K. AVE WOB-24K. RPM 50. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2600/2200.400 DIFF. TORQUE ON/OFF 12500/7000. STRING WT UP/DOWN/ROT 170/112/141. DRAG 16K. SLIDE 40' @ 40' HR. SLIDE 6% ROT 94%. RUNNING CENTRIFUGES AND DEWATERING. DRILLING W/ WATER WT 8.4 VIS 27. 10' FLARES FROM APPROX. 7400'. HOLE TRYING TO PACK OFF ON CONNECTIONS. START MUD UP. 7470'. PUMP 40 BBLS 60 VIS 20% LCM GEL SWEEP. START DISPLACING 11.5 MUD INTO SYSTEM. HOLE STARTED TAKING FLUID. SLOWED PUMPS DOWN. LOSS 50 BBLS OF FLUID.)
	20:00 - 0:00	4.00	DRLPRO	22	A	X		HOLE STARTED PACKING OFF. WORK TIGHT HOLE. LAY DOWN 1 JT. WORKED TIGHT HOLE WITH 50 PSI TRAPPED ON STAND PIPE. NO CIRC. WORK PIPE UP 4 JTS TILL PIPE CAME FREE. CATCH CIRC. CIRC HOLE CLEAN @ REPORT TIME.
11/11/2011	0:00 - 1:00	1.00	DRLPRO	05	A	P		CIRC AND CLEAN HOLE WHILE WORKING PIPE. MUD IN 9.1+42 MUD OUT 10.8/42. 10' FLARE FROM BOTTOMS UP.
	1:00 - 1:30	0.50	DRLPRO	03	D	P		WASH BACK TO BOTTOM 7314'-7489'.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD		Rig Name No: PROPETRO 12/12, XTC 12/12	
Event: DRILLING		Start Date: 5/29/2011		End Date: 11/14/2011	
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	1:30 - 14:30	13.00	DRLPRO	02	D	P		DRILL SLIDE 7489'-8427' (938',72'/HR) TD 11/11/2011 14:30. WOB 20-25K. AVE WOB-23K. RPM 50. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 3700/3400. DIFF 300. TORQUE ON/OFF 11500/8000. STRING WT UP/DOWN/ROT 171/120/147. DRAG 24K. SLIDE 25' @ 40' HR. SLIDE 3% ROT 97%. MUD IN 11.4/41 MUD OUT 11.4/41. 2-6' FLARE WHILE DRILLING. 5' FLARES FROM 8000'-8081. FLARE FROM 8200'. NO LOSSES. RIG SERVICE. FUNCTION PIPE RAMS. SERVICE TOP DRIVE.
	14:30 - 15:00	0.50	EVALPR	07	A	P		CIRC AND CONDION HOLE. RAISE MUD WT TO 11.5. 1' FLARE OFF AND ON. MIX 30 BBL 13# PILL FOR DRY JOB AND HOLD.
	15:00 - 16:30	1.50	EVALPR	05	A	P		PULL OFF BOTTOM @ 60 K OVER. HOLE TAKING PROPER FLUID. PULL UP TO 7827'. WORK THROUGH TIGHT HOLE @ 7827'-7800'. PULL 5 MORE STANDS AND PUMP DRY JOB. WIPER TRIP. NO FLOW ON FLOW CHECKS. WORK THROUGH TIGHT SPOT @ 4520'. WIPER TRIPPING IN HOLE @ 4400. @ RT.
	16:30 - 0:00	7.50	EVALPR	06	E	P		WIPER TRIP BACK IN HOLE. WASH DOWN 8396'-8427'. 10' FILL. HOLE STICKY ON BOTTOM. CIRC AND CONDITION HOLE. MUD WT 11.8 VIS 47. 25' BOTTOMS UP FLARE. MIX 50 BBLS 13.2# PILL FOR DRY JOB AND HOLD.
11/12/2011	0:00 - 2:30	2.50	EVALPR	06	E	P		WIPER TRIP OUT OF HOLE.PULL WET TO 7800' AND PUMP DRY JOB. STICKY COMMING OFF BOTTOM. 70K OVER PULL OFF BOTTOM. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER. LD HWDP. LD DIRECTIONAL TOOLS. BREAK BIT AND LD MOTOR.
	2:30 - 4:00	1.50	EVALPR	05	A	P		HOLD SAFETY MEETING WITH HALLIBURTON LOGGERS. RIG UP LOGGERS. RUN IN WITH TRIPLE COMBO TOOLS. BRIDGE OUT @ 5017'. LOG 5017'-2193'. TIGHT HOLE @ 4500'. RIG DOWN LOGGERS.
	4:00 - 12:00	8.00	EVALPR	06	E	P		MAKE UP BIT AND BIT SUB. P/U 365' OF HWDP. TRIP IN HOLE. INSTALL ROT HEAD RUBBER. BRIDGE @ 5017'. WASH AND REAM BRIDGE. TRIPPING IN HOLE TO 7500' AT REPORT TIME. NO TIGHT HOLE. FINISH WIPER TRIP IN HOLE. NO TIGHT HOLE PAST BRIDGE AT 5017'. TRIP IN TO 8404'. WASH DOWN TO 8427'. GOOD DISPLACEMENT ON TRIP IN.
	12:00 - 17:00	5.00	EVALPR	11	D	P		CIRC AND CONDITION HOLE. MUD WT 11.9 VIS 49. CIRCULATE UP SOME SLOUGH FORMATION OVER SHAKERS. CLEAN HOLE UP. CIRC OUT 15' FLARE ON BOTTOMS UP. MIX 30 BBL 13.4# PILL FOR DRY JOB AND PUMP.
11/13/2011	0:00 - 1:30	1.50	EVALPR	06	E	P		WIPER TRIP OUT OF HOLE. LDDS. PULL ROT HEAD RUBBER. LD HWDP. BREAK BIT FROM BIT SUB. NO TIGHT HOLE ON TRIP OUT. HOLE TAKING PROPER FLUID ON TRIP. NO FLOW ON FLOW CHECKS. PULL WEAR BUSHING.
	1:30 - 3:30	2.00	EVALPR	05	A	P		
	3:30 - 11:00	7.50	EVALPR	06	E	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011	Spud Date: 9/24/2011
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD	Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING		Start Date: 5/29/2011	End Date: 11/14/2011
Active Datum: RKB @5,314.00usft (above Mean Sea Level)		UWI: SW/SW0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 15:30	4.50	EVALPR	11	D			HOLD SAFETY MEETING WITH HALLIBURTON LOGGERS. RIG UP LOGGERS AND RUN IN HOLE W/ TRIPLE COMBO LOGS. LOG FROM 8408'-5017'. PULL TOOLS AND RIG DOWN LOGGERS. (GO THROUGH PUMPS. RIG DOWN BAR HOPPER.) (START MOVING OUT FRONT YARD WITH JD TRUCKING. SET MATTING BOARDS AND SKID RAILS ON NBU 922-36N PAD) (PERFORM BHA INSPECTION ON HWDP, MONELS AND ALL CROSSOVER SUBS)
	15:30 - 16:00	0.50	CSG	12	A	P		HOLD SAFETY MEETING WITH KIMZEY CSG. (TSI HAND EARL JACKSON PRESENT FOR MEETING AND CSG RUN.) RIG UP KIMZEY CSG.
	16:00 - 23:00	7.00	CSG	12	C	P		MAKE UP DCT AUTO FILL FLOAT SHOE AND FLOAT COLLAR W/ THREAD LOCK. RUN 199 JTS OF 4.5" 11.6# I-80 BTC CSG. SET FLOAT SHOE @ 8418.63' KB. SET FLOAT COLLAR @ 8373.60' KB. SET TOP OF MESA VERDE MARKER @ 6079.95' KB. SET WASATCH MARKER @ 3996.93 KB. RAN CENTRALIZER ON FIRST 3 JTS THEN EVERY 3RD FOR A TOTAL OF 15 CENTRALIZER. INSTALLED ROT RUBBER. AUTO FILL STAYED OPEN TO SHOE 5000'. BROKE CIRC. TAGGED FILL @ 8408'. WASHED DOWN CSG 10'. CSG MAKE UP TORQUE 4500-4900. (CSG RUN SUPERVISED BY EARL JACKSON WITH TSI.)
	23:00 - 0:00	1.00	CSG	05	D	P		CIRC BOTTOMS UP W/ 5' FLARE. RIG DOWN KIMZEY CSG. RIG UP BJ SERVICE. INSTALL CEMENT HEAD.
11/14/2011	0:00 - 3:00	3.00	CSG	12	E	P		INSTALL CEMENT HEAD W/ TOP PLUG INSTALLED. PRESSURE TEST TO 6000 PSI. PUMP 28 BBLS OF 11.7# WEIGHTED SPACER. PUMP 151 BBLS (391 SX) OF 12.2 PPG 2.17 YD 11.80 GAL/SK LEAD CEMENT. PUMP 260 BBLS (1116 SX) OF 14.3# 1.31 YD 5.90 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 129.8 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. RETURNS WITH 60 BBLS OF CONTAMINATED MUD AND 65 BBLS CEMENT TO SURFACE. LIFT PSI OF 2100 @ 3 BBLS MIN. BUMP PLUG 3000 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 0', EST TOC FOR TAIL 3529'. RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER. STORED 760 BBLS OF 11.6# MUD.
	3:00 - 6:00	3.00	RDMO	14	A	P		NIPPLE DOWN BOP. LIFT STACK AND SET C-22 SLIPS W/ 95K. CUT OFF CSG. CLEAN SOLIDS OUT OF TANKS. RELEASE RIG 11/14/2011 06:00.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-8N2BS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-8N2BS	Wellbore Name	BONANZA 1023-8N2BS
Report No.	1	Report Date	12/14/2011
Project	UTAH-UINTAH	Site	BONANZA 1023-8M PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/14/2011	End Date	1/3/2012
Spud Date	9/24/2011	Active Datum	RKB @5,314.00usft (above Mean Sea Level)
UWI	SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

1.3 General

Contractor		Job Method		Supervisor	CHRIS LLOYD
Perforated Assembly	PRODUCTION CASING	Conveyed Method			

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	5,270.0 (usft)-8,217.0 (usft)	Start Date/Time	12/17/2011 12:00AM
No. of Intervals	28	End Date/Time	12/17/2011 12:00AM
Total Shots	192	Net Perforation Interval	56.00 (usft)
Avg Shot Density	3.43 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/17/2011 12:00AM	WASATCH/1			5,270.0	5,273.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density/ (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/17/2011 12:00AM	WASATCH/ 1			5,474.0	5,477.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	WASATCH/ 1			5,562.0	5,563.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	WASATCH/ 1			5,660.0	5,661.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	WASATCH/ 1			5,723.0	5,725.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	WASATCH/ 1			5,772.0	5,774.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			6,957.0	6,959.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			6,981.0	6,983.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,018.0	7,020.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,139.0	7,141.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,171.0	7,174.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,217.0	7,219.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,232.0	7,233.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,301.0	7,304.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/ 1			7,345.0	7,346.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/17/2011 12:00AM	MESAVERDE/			7,355.0	7,357.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,381.0	7,383.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,523.0	7,524.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,578.0	7,580.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,648.0	7,649.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,671.0	7,673.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,705.0	7,707.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,823.0	7,825.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,844.0	7,847.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,880.0	7,881.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			7,893.0	7,895.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			8,115.0	8,117.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/17/2011 12:00AM	MESAVERDE/			8,213.0	8,217.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011	Spud Date: 9/24/2011
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 12/14/2011	End Date: 1/3/2012
Active Datum: RKB @5,314.00usft (above Mean Sea Level)		UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub-Code	P/U	MD From (usft)	Operation
12/14/2011	9:45 - 11:30	1.75	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 22 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 26 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 71 PSI. NO COMMUNICATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFW
12/16/2011	9:00 - 11:00	2.00	COMP	30	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER DESIGN. POOH. SWIFWE.
12/17/2011	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES & WIRE LINE SAFETY.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 12/14/2011		End Date: 1/3/2012	
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	DRLCON	36	B	P		<p>PSI TEST FRAC LINES T/ 8100 PSI. HOLD FOR 15 MIN. LOST 985 PSI. NO VISABLE LEAKS. BLEED OFF PSI. SET POP-OFFS T/ 6750 PSI. FRAC STG 1)WHP 430 PSI, BRK 4019 PSI @ 4.2 BPM. ISIP 2137 PSI, FG .70. CALC PERFS OPEN @ 40.1 BPM @ 6071 PSI = 60% HOLES OPEN. ISIP 2151 PSI, FG .70, NPI 14 PSI. MP 6541 PSI, MR 52.4 BPM, AP 5788 PSI, AR 46. BPM, PUMP 30/50 OTTAWA SAND.</p> <p>((PUMP PRE PAD & PAD STARTED SAND, PUMPED 567 LBS SAND. FLUSHED WELL. PUMP RT WENT F/ 33 T/ 88 BPM. CLEAN FLUID TOTAL SHOWED WE PUMPED 580 BBLS. STRAPS SHOWED WE ONLY PUMPED 380 BBLS. SHUT DOWN WAIT 1HR 15 MIN FOR E-TECH T/COME F/ VERNAL. FIXED SLURRY RT. CAN NOT SEE RT ON LA 3 PUMP. JUST GO OFF STRAPS. DOWN 3HRS 30MIN.))</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7925' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1460 PSI, BRK 4051 PSI @ 4.5 BPM. ISIP 2187 PSI, FG .72. CALC PERFS OPEN @ 49.3 BPM @ 5618 PSI = 74% HOLES OPEN. ISIP 2283 PSI, FG .73, NPI 96 PSI. MP 5992 PSI, MR 50.9 BPM, AP 4586 PSI, AR 49.4 BPM, PUMPED 30/50 OWATTA SAND. SWIFN.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH TAG SAND 7312' BECAME STUCK. WORK WIRE LINE. WOULD NOT COME FREE. SET CBP @ 7312' POOH W/ WL. SWIFN.</p> <p>((FRAC 2 STG'S IN THIS WELL. PLUG BECAME STUCK. SET CBP @ 7312'.))</p>
12/30/2011	11:00 - 17:00	6.00	COMP	31	I	P		<p>MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER & INSTAL HAND RAILS, P/U TBG REMOVE THREAD PROTECTORS TALLY & DRIFT, SWI, SDFHOLIDAYWE.</p>
1/3/2012	7:00 - 7:15	0.25	COMP	48		P		<p>HSM, SLIPS, TRIPS & FALLS, LANDING TBG</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 12/14/2011		End Date: 1/3/2012	
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:30	10.25	COMP	44	C	P		<p>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. P/T FLOWLINE TO HAL 9000 TO 2,500 PSI FOR 15 MIN, LOST 16 PSI, NO VISIBLE LEAKS</p> <p>C/O 15' SAND, TAG 1ST PLUG @ 7,312' DRL PLUG IN 10 MIN. 600 PSI INCREASE RIH, CSG PRESS 300 PSI.</p> <p>C/O 20' SAND, TAG 2ND PLUG @ 7,925' DRL PLUG IN 9 MIN. 400 PSI INCREASE RIH, CSG PRESS 100 PSI.</p> <p>PBTD @ 8,374'; BTM PERF @ 8,217', RIH TAGGED @ 8,252' C/O TO 8,347', 130' PAST BTM PERF, LD 17 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 246 JTS 2 3/8" L-80, EOT 7,808.62'.</p> <p>RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,800 PSI, LET BIT FALL FOR 20 MIN.</p> <p>P/T FLOWLINE TO HAL 9000 TO 2,500 PSI FOR 15 MIN, LOST 160 PSI, NO VISIBLE LEAKS</p> <p>TURN OVER TO FLOW BACK CREW, RD & MOVE TO RECOMP WELL ON PAD.</p> <p>KB= 15' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 283 JTS 246 JTS 2 3/8" L-80 = 7,790.59' TBG USED 246 JTS POBS= 2.20' TBG RETURNED 37JTS EOT @ 7,808.62'</p> <p>TWTR= 2,462 BBLS TWR= 400 BBLS TWLTR= 2,323 BBLS</p>
	13:30 -		PROD	50				
1/4/2012	7:00 -		PROD	50				<p>WELL TURNED TO SALES @ 1330 HR ON 1/3/2012 - 1380 MCFD, 1920 BWPD, FCP 1900#, FTP 1580#, 20/64" CK</p> <p>WELL IP'D ON 1/4/12 - 866 MCFD, 0 BOPD, 1920 BWPD, CP 1139 #, FTP 609#, CK 20/64", LP 73#, 24 HRS</p> <p>HSM, TRIPPING TBG IN DERICK & L/D TBG.</p> <p>RIG UP RIG, SICP 180 #, SITP, 180 #, CONTROL WELL W/ 60 BBLS T-MAC, ND WH NU BOPS, RU FLOOR & TBG EQUIP. UNLAND TBG L/D HANGER.</p> <p>POOH W/ 164 JTS 23/8 L-80 IN DERICK S.L.M & CHECKING W/ BROACH, L/D REM 82 JTS 23/8 L-80 ON FLOAT.</p>
2/7/2012	7:00 - 7:30	0.50	COMP	48		P		
	7:30 - 10:00	2.50	COMP	30	A	P		
	10:00 - 13:00	3.00	COMP	31	I	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 12/14/2011		End Date: 1/3/2012	
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 15:00	2.00	COMP	34	I	P		RU JW RIH W/ 41/2 GAUGE RING TO 7750', POOH RIH SET HAL 8-K CBP @ 7737', POOH RD JW. SWI SDFN.
2/8/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ TEST TRUCK, STAYING AWAY FRON WELL HEAD & LINES.
	7:30 - 9:30	2.00	COMP	33	C	P		SICP 200 PSI, BLEAD OFF PSI, ND BOPS NU FV, RU B&C TEST CSG TO 1,091 PSI LOST 9 PSI IN 15 MIN, TEST TO 3592 PSI 12 LOST PSI IN 15 MIN, TEST TO 7163 PSI DROPPED TO 2800 PSI, KICK PUMP BACK IN PUMPING @ 2200 PSI NOT GAINING.SHUT DWN.NOT COMUNICATING W/ SURF.
	9:30 - 12:00	2.50	COMP	46	E	P		ORDERED WL TRUCK TO COME & SET HAL 10-K CBP.
	12:00 - 15:30	3.50	COMP	34	I	P		RU CASED HOLE RIH HAL 10-K CBP TAG PLUG @ 7737 BECAME STUCK SET 10-K CBP @ 7737' POOH, FILL HOLE PUMPING IN @ 1800 PSI @ 1.5 BPM, W/ RIG PUMP. TRY W/ TEST TRUCK NOT GAINING PSI. RD WIRE & TEST TRUCK.
	15:30 - 16:30	1.00	COMP	30	F	P		ND FV, NU BOPS, RU FLOOR SWI SDFN
2/9/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ TOOL HAND
	7:30 - 17:00	9.50	COMP	33	C	P		SICP 0, RIH W/ 41/2 32A PKR & 82 JTS SET PKR @ 2611.95' TEST CSG TO 3,000# OK. RIH 58 TOTAL 140 JTS SET PKR @ 4449' TEST CSG TO 3200 # OK, RIH 24 MORE JTS TOTAL 164 SET PKR @ 5209.44' TEST CSG TO 3,000# OK, PU 47 JTS TOTAL 211 SET PKR @ 6698.50' TEST CSG TO 3,000# OK, PU 32 JTS TOTAL 243 SET PKR @ 7712.21' TEST CSG TO 1700 PSI PUMP @ 1.5 BPM. TEST TBG TO 3300 PSI HELD, L/D 5 JTS 238 IN SET PKR @ 7553.83 TEST TBG 3100 # OK, L/D 8 JTS 230 IN SET PKR @ 7300.46' TEST TBG 3400 # HELD, L/D 5 JTS 225 IN SET PKR @ 7142.11' TEST TBG 3300 OK, HAD SOME TROUBLE GETTING PKR LOOSE. L/D 5 JTS 220 IN SET PKR @ 6983.71' TEST TBG TO 3100 OK,L/D 4 JTS 216 IN SET PKR @ 6854' TEST TBG NO TEST. PU 2 JTS 218 IN SET PKR @ 6916' TEST TBG NO TEST. TEST CSG TO 3,000 OK PU 1 JT 219 IN SET PKR @ 6948' TEST TBG PKR STRAR COMUNICATING. LEAK IS IN CSG COLLAR @ 6946'. UN SET PKR L/D 55 JTS ON TRAILOR. POOH W/ 164 JTS IN DERICK L/D PKR. SWI DRAIN EQUIP SDFN.
2/10/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ WIRELINE.
	7:30 - 8:30	1.00	COMP	30	F	P		NB BOPS NU FV. RU FLOOR.
	8:30 - 15:00	6.50	COMP	37	B	P		RU CASED HOLE, RIH W/ 31/8 23 GRM, .36" HLS 120 DEG PHASING GNS & PERF 3RD STG AS OF PROCEDURE, POOH RIH DUMP BAIL 12 GALS ACID @ TOP PERF, POOH SWI PREP TO FRAC IN AM.
								(NOTE WHILE RUNNING IN HOLE COLLAR LOCATOR KICKING LEAK @ 6956 10' BELOW COLLAR @ 6946') INCASE OF ANY TROUBLE.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011	Spud Date: 9/24/2011
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 12/14/2011	End Date: 1/3/2012
Active Datum: RKB @5,314.00usft (above Mean Sea Level)		UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/11/2012	7:00 -		COMP	36	E	P		<p>JSA-SAFETY MEETING W/ SUPERIOR FRAC, CASEDHOLE WIRELINE AND RIG CREW</p> <p>FRAC STG 3)WHP 1135 PSI, BRK 2980 PSI @ 8.0 BPM. ISIP 2385 PSI, FG .75. CALC PERFS OPEN @ 50.6 BPM @ 4692 PSI = 100% HOLES OPEN. ISIP 2699 PSI, FG .79, NPI 318 PSI. MP 5395 PSI, MR 55.5 BPM, AP 4278 PSI, AR 51 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7420' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 4)WHP 2083 PSI, BRK 2246 PSI @ 4.3 BPM. ISIP 2110 PSI, o.73 FG . CALC PERFS OPEN @ 56.4 BPM @ 5586 PSI = 91% HOLES OPEN. ISIP 1776 PSI, FG 0.68, NPI -334 PSI. MP 5923 PSI, MR 56.8 BPM, AP 4495 PSI, AR 55.9 BPM, PUMPED 30/50 OWATTA SAND. .</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7263' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 1445 PSI, BRK 1684 PSI @ 4.5 BPM. ISIP 1471 PSI, FG 0.64. CALC PERFS OPEN @ 62.7 BPM @ 4462 PSI = 100% HOLES OPEN. ISIP 1812 PSI, FG 0.69, NPI 341 PSI. MP 5157 PSI, MR 63 BPM, AP 4085 PSI, AR 62.4 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7050 ' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6)WHP 1640 PSI, BRK 2154 PSI @ 5.7 BPM. ISIP 1912 PSI, FG.0.71 CALC PERFS OPEN @ 51.9 BPM @ 5166 PSI = 88% HOLES OPEN. ISIP 2527 PSI, FG 0.80, NPI 615 PSI. MP 5554 PSI, MR 53.1 BPM, AP 4349 PSI, AR 52.5 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET</p>

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-8N2BS GREEN		Spud Conductor: 9/8/2011		Spud Date: 9/24/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8M PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 12/14/2011		End Date: 1/3/2012	
Active Datum: RKB @5,314.00usft (above Mean Sea Level)			UWI: SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								<p>CBP @ 5804 ' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 180 PSI, BRK 1872 PSI @ 3.5 BPM. ISIP 1162 PSI, FG 0.64. CALC PERFS OPEN @ 52.1 BPM @ 3650 PSI = 100% HOLES OPEN. ISIP 1594 PSI, FG 0.72, NPI 432 PSI. MP 3807 PSI, MR 53.4 BPM, AP 3123 PSI, AR 52.7 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 5507 ' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 1068 PSI, BRK 1608 PSI @ 3.8 BPM. ISIP 1417 PSI, FG.0.70. CALC PERFS OPEN @ 52.9 BPM @ 4085 PSI = 93% HOLES OPEN. ISIP 1547 PSI, FG 0.73, NPI 132 PSI. MP 4437 PSI, MR 53.2 BPM, AP 3329 PSI, AR 52.5 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>(KILL PLUG) P/U 4 1/2" 8K HAL CBP RIH SET CBP @ 5220', SHUT WELL IN, R/D WIRELINE AND FRAC CREW,</p> <p>TOTAL SAND = 163,725# TOTAL WTR = 8111 BBLS TOTAL SCALE = 613 GALS TOTAL BIO = 164 GALS</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023-8N2BS GREEN	Wellbore No.	OH
Well Name	BONANZA 1023-8N2BS	Common Name	BONANZA 1023-8N2BS
Project	UTAH-UINTAH	Site	BONANZA 1023-8M PAD
Vertical Section Azimuth	57.90 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	9/24/2011	UWI	SW/SW/0/10/S/23/E/8/0/0/26/PM/S/531/W/0/683/0/0
Active Datum	RKB @5,314.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: SURF. DEVIATION

Survey Name	SURF. DEVIATION	Company	SCIENTIFIC
Started	9/25/2011	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.1.1 Tie On Point

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

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/25/2011	Tie On	11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/2011	NORMAL	190.00	0.44	138.68	190.00	-0.52	0.45	0.11	0.25	0.25	0.00	138.68
	NORMAL	274.00	0.79	227.98	273.99	-1.15	0.24	-0.41	1.07	0.42	106.31	118.58
	NORMAL	358.00	0.79	171.20	357.99	-2.11	-0.11	-1.21	0.89	0.00	-67.60	-118.39
	NORMAL	448.00	2.02	101.42	447.96	-3.03	1.54	-0.30	2.11	1.37	-77.53	-92.77
	NORMAL	538.00	3.17	75.84	537.87	-2.74	5.51	3.21	1.78	1.28	-28.42	-58.46
	NORMAL	628.00	4.84	60.37	627.65	-0.25	11.23	9.38	2.19	1.86	-17.19	-40.78
	NORMAL	718.00	6.72	59.86	717.19	4.27	19.08	18.43	2.09	2.09	-0.57	-1.82
	NORMAL	808.00	8.60	61.56	806.38	10.12	29.55	30.41	2.10	2.09	1.89	7.72
	NORMAL	898.00	10.36	60.96	895.15	17.25	42.55	45.21	1.96	1.96	-0.67	-3.51
	NORMAL	988.00	11.75	57.76	983.48	26.07	57.37	62.46	1.69	1.54	-3.56	-25.40
	NORMAL	1,078.00	12.93	56.81	1,071.40	36.47	73.55	81.69	1.33	1.31	-1.06	-10.23
	NORMAL	1,168.00	14.75	57.72	1,158.78	48.10	91.67	103.21	2.04	2.02	1.01	7.26
	NORMAL	1,258.00	17.19	58.34	1,245.30	61.20	112.68	127.97	2.72	2.71	0.69	4.30
	NORMAL	1,348.00	18.64	55.98	1,330.94	78.24	135.92	155.65	1.80	1.61	-2.64	-27.93
	NORMAL	1,438.00	20.02	55.20	1,415.86	93.08	160.49	185.41	1.56	1.53	-0.84	-10.69
	NORMAL	1,528.00	21.35	54.95	1,500.06	111.28	186.55	217.16	1.48	1.48	-0.28	-3.92
	NORMAL	1,618.00	22.45	53.37	1,583.56	130.94	213.75	250.66	1.39	1.22	-1.76	-28.91

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 (°)
9/25/2011	NORMAL	1,708.00	21.05	50.73	1,667.16	151.43	240.06	283.83	1.90	-1.56	-2.93	-146.28
	NORMAL	1,798.00	21.36	51.69	1,751.06	171.82	265.43	316.16	0.52	0.34	1.07	48.69
	NORMAL	1,888.00	21.56	53.36	1,834.82	191.85	291.56	348.94	0.71	0.22	1.86	72.65
	NORMAL	1,978.00	21.80	53.28	1,918.46	211.71	318.23	382.08	0.27	0.27	-0.09	-7.06
	NORMAL	2,068.00	21.87	52.81	2,002.00	231.84	344.98	415.43	0.21	0.08	-0.52	-68.40
	NORMAL	2,158.00	20.03	53.60	2,086.05	251.12	370.74	447.50	2.07	-2.04	0.88	171.64

2.2 Survey Name: Survey #1

Survey Name	Survey #1	Company	NATIVE NAVIGATION
Started	11/8/2011	Ended	
Tool Name	EM	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,158.00	20.03	53.60	2,086.05	251.12	370.74

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 (°)
11/8/2011	Tie On	2,158.00	20.03	53.60	2,086.05	251.12	370.74	447.51	0.00	0.00	0.00	0.00
11/8/2011	NORMAL	2,220.00	19.10	53.80	2,144.47	263.41	387.47	468.21	1.50	-1.50	0.32	175.98
	NORMAL	2,311.00	21.00	58.10	2,229.96	280.82	413.33	499.37	2.64	2.09	4.73	39.84
	NORMAL	2,402.00	20.00	56.80	2,315.19	297.96	440.20	531.24	1.21	-1.10	-1.43	-156.13
	NORMAL	2,493.00	19.30	57.80	2,400.89	314.50	465.95	561.84	0.85	-0.77	1.10	154.81
	NORMAL	2,583.00	19.70	56.60	2,485.73	330.77	491.20	591.88	0.63	0.44	-1.33	-45.61
	NORMAL	2,674.00	21.40	54.80	2,570.94	348.79	517.57	623.79	1.99	1.87	-1.98	-21.23
	NORMAL	2,765.00	21.80	53.90	2,655.55	368.31	544.79	657.22	0.57	0.44	-0.99	-40.05
	NORMAL	2,856.00	21.00	52.90	2,740.27	388.11	571.45	690.32	0.97	-0.88	-1.10	-155.95
	NORMAL	2,946.00	20.60	52.50	2,824.41	407.47	596.87	722.15	0.47	-0.44	-0.44	-160.64
	NORMAL	3,037.00	19.10	52.00	2,910.00	426.39	621.30	752.90	1.66	-1.65	-0.55	-173.78
	NORMAL	3,128.00	18.40	53.80	2,996.17	444.03	644.63	782.04	1.00	-0.77	1.98	141.27
	NORMAL	3,219.00	17.90	58.00	3,082.64	459.93	668.08	810.35	1.54	-0.55	4.62	112.90
	NORMAL	3,309.00	16.90	56.20	3,168.53	474.53	690.68	837.26	1.26	-1.11	-2.00	-152.56
	NORMAL	3,400.00	15.60	55.40	3,255.89	488.84	711.74	862.70	1.45	-1.43	-0.88	-170.61
	NORMAL	3,491.00	14.10	51.60	3,343.85	502.68	730.50	885.95	1.96	-1.65	-4.18	-148.83
	NORMAL	3,581.00	13.00	50.80	3,431.34	515.88	746.94	906.89	1.24	-1.22	-0.89	-170.72
	NORMAL	3,673.00	11.10	48.90	3,521.31	528.25	761.63	925.91	2.11	-2.07	-2.07	-169.14
	NORMAL	3,763.00	9.40	48.40	3,609.87	538.82	773.66	941.71	1.89	-1.89	-0.56	-177.25
	NORMAL	3,854.00	8.00	47.80	3,699.82	548.01	783.91	955.28	1.54	-1.54	-0.66	-176.59
	NORMAL	3,944.00	7.60	52.50	3,788.99	555.84	793.27	967.37	0.84	-0.44	5.22	124.41
	NORMAL	4,035.00	7.30	53.20	3,879.22	562.97	802.67	979.12	0.34	-0.33	0.77	163.51
	NORMAL	4,126.00	7.00	54.50	3,969.51	569.65	811.82	990.42	0.37	-0.33	1.43	152.30
	NORMAL	4,216.00	6.90	54.80	4,058.85	575.95	820.70	1,001.29	0.12	-0.11	0.33	160.20
	NORMAL	4,307.00	6.30	55.80	4,149.25	581.91	829.29	1,011.74	0.67	-0.66	1.10	169.65
11/9/2011	NORMAL	4,398.00	5.00	54.80	4,239.81	587.00	836.66	1,020.69	1.43	-1.43	-1.10	-176.17
	NORMAL	4,489.00	2.90	52.00	4,330.58	590.70	841.72	1,026.94	2.32	-2.31	-3.08	-176.15
	NORMAL	4,579.00	1.10	50.30	4,420.53	592.66	844.18	1,030.06	2.00	-2.00	-1.89	-178.96
	NORMAL	4,670.00	0.31	272.36	4,511.52	593.23	844.60	1,030.72	1.48	-0.87	-151.58	-171.13
	NORMAL	4,761.00	0.26	179.37	4,602.52	593.03	844.36	1,030.41	0.46	-0.05	-102.19	-141.25
	NORMAL	4,852.00	0.62	190.88	4,693.52	592.34	844.27	1,029.97	0.41	0.40	12.65	19.59

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 (°)
11/9/2011	NORMAL	4,942.00	0.70	171.46	4,783.51	591.32	844.26	1,029.42	0.26	0.09	-21.58	-80.21
	NORMAL	5,033.00	0.83	179.98	4,874.50	590.11	844.34	1,028.84	0.19	0.14	9.36	45.50
	NORMAL	5,124.00	0.97	178.05	4,965.49	588.68	844.37	1,028.11	0.16	0.15	-2.12	-13.18
	NORMAL	5,215.00	0.97	165.66	5,056.48	587.16	844.59	1,027.49	0.23	0.00	-13.62	-96.19
	NORMAL	5,305.00	0.70	109.23	5,146.47	586.25	845.29	1,027.60	0.92	-0.30	-62.70	-134.98
	NORMAL	5,396.00	0.75	123.21	5,237.46	585.74	846.32	1,028.19	0.20	0.05	15.36	81.28
	NORMAL	5,487.00	0.62	130.24	5,328.46	585.09	847.19	1,028.59	0.17	-0.14	7.73	150.60
	NORMAL	5,577.00	1.32	138.85	5,418.44	584.00	848.25	1,028.90	0.79	0.78	9.57	16.09
11/10/2011	NORMAL	5,668.00	1.54	135.60	5,509.42	582.33	849.79	1,029.33	0.26	0.24	-3.57	-21.87
	NORMAL	5,759.00	1.27	149.75	5,600.39	580.59	851.15	1,029.56	0.48	-0.30	15.55	134.82
	NORMAL	5,850.00	1.71	143.07	5,691.36	578.63	852.48	1,029.64	0.52	0.48	-7.34	-24.90
	NORMAL	5,940.00	2.15	139.82	5,781.31	576.27	854.37	1,029.99	0.50	0.49	-3.61	-15.60
	NORMAL	6,031.00	2.15	140.43	5,872.24	573.65	856.56	1,030.45	0.03	0.00	0.67	90.30
	NORMAL	6,122.00	2.29	149.31	5,963.17	570.77	858.58	1,030.63	0.41	0.15	9.76	72.33
	NORMAL	6,213.00	2.02	143.60	6,054.11	567.92	860.46	1,030.70	0.38	-0.30	-6.27	-144.34
	NORMAL	6,303.00	1.63	150.89	6,144.06	565.52	862.02	1,030.75	0.50	-0.43	8.10	152.84
	NORMAL	6,394.00	0.75	136.57	6,235.04	563.96	863.06	1,030.80	1.01	-0.97	-15.74	-168.39
	NORMAL	6,485.00	0.35	193.52	6,326.04	563.25	863.41	1,030.72	0.69	-0.44	62.58	152.31
	NORMAL	6,576.00	0.66	129.45	6,417.04	562.65	863.74	1,030.69	0.66	0.34	-70.41	-95.90
	NORMAL	6,666.00	0.83	115.30	6,507.03	562.04	864.73	1,031.20	0.28	0.19	-15.72	-54.48
	NORMAL	6,757.00	1.30	124.40	6,598.01	561.18	866.18	1,031.97	0.55	0.52	10.00	24.38
	NORMAL	6,848.00	1.00	108.40	6,689.00	560.34	867.79	1,032.89	0.48	-0.33	-17.58	-140.86
	NORMAL	6,938.00	0.79	176.38	6,778.99	559.48	868.57	1,033.09	1.13	-0.23	75.53	133.86
	NORMAL	7,029.00	1.45	176.47	6,869.97	557.70	868.68	1,032.24	0.73	0.73	0.10	0.20
	NORMAL	7,120.00	0.09	44.98	6,960.96	556.60	868.80	1,031.76	1.66	-1.49	-144.49	-177.44
	NORMAL	7,211.00	0.35	113.27	7,051.96	556.54	869.11	1,031.99	0.36	0.29	75.04	83.08
	NORMAL	7,302.00	0.09	100.97	7,142.96	556.42	869.44	1,032.20	0.29	-0.29	-13.52	-175.82
	NORMAL	7,393.00	0.40	126.99	7,233.96	556.22	869.76	1,032.36	0.35	0.34	28.59	33.07
11/11/2011	NORMAL	7,483.00	1.10	153.88	7,323.95	555.25	870.39	1,032.39	0.85	0.78	29.88	40.57
	NORMAL	7,574.00	1.41	143.68	7,414.93	553.56	871.44	1,032.38	0.42	0.34	-11.21	-40.95
	NORMAL	7,665.00	1.27	148.08	7,505.90	551.81	872.63	1,032.46	0.19	-0.15	4.84	145.87
	NORMAL	7,756.00	1.31	149.93	7,596.88	550.05	873.69	1,032.42	0.06	0.04	2.03	47.08
	NORMAL	7,847.00	1.80	138.40	7,687.85	548.08	875.16	1,032.62	0.64	0.54	-12.67	-38.41
	NORMAL	7,938.00	2.02	152.21	7,778.80	545.59	876.86	1,032.73	0.56	0.24	15.18	71.46
	NORMAL	8,028.00	2.33	147.46	7,868.73	542.65	878.58	1,032.63	0.40	0.34	-5.28	-32.57
	NORMAL	8,119.00	1.80	152.74	7,959.67	539.82	880.23	1,032.52	0.62	-0.58	5.80	162.88
	NORMAL	8,210.00	1.85	146.23	8,050.62	537.33	881.70	1,032.44	0.23	0.05	-7.15	-79.71
	NORMAL	8,300.00	2.15	145.09	8,140.57	534.73	883.47	1,032.57	0.34	0.33	-1.27	-8.12
	NORMAL	8,377.00	2.46	148.26	8,217.51	532.15	885.17	1,032.63	0.44	0.40	4.12	23.94
	NORMAL	8,427.00	2.46	148.26	8,267.46	530.32	886.30	1,032.61	0.00	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: BONANZA 1023-8N2BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047511560000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0531 FSL 0683 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 08 Township: 10.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/14/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: RIG REL. - ACTS PIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2213' TO 8427' ON NOV. 11, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED EXTREME RIG 12 ON NOV. 14, 2011 @ 05:30 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/14/2011	

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: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6029

Well 1

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

Well 2

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

Well 3

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

ACTION CODES:

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

RECEIVED

MAY 21 2012

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

5/21/2012

Title

Date

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

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

* not moved in unit

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

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

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

★ not moved into unit

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