

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

FORM 3

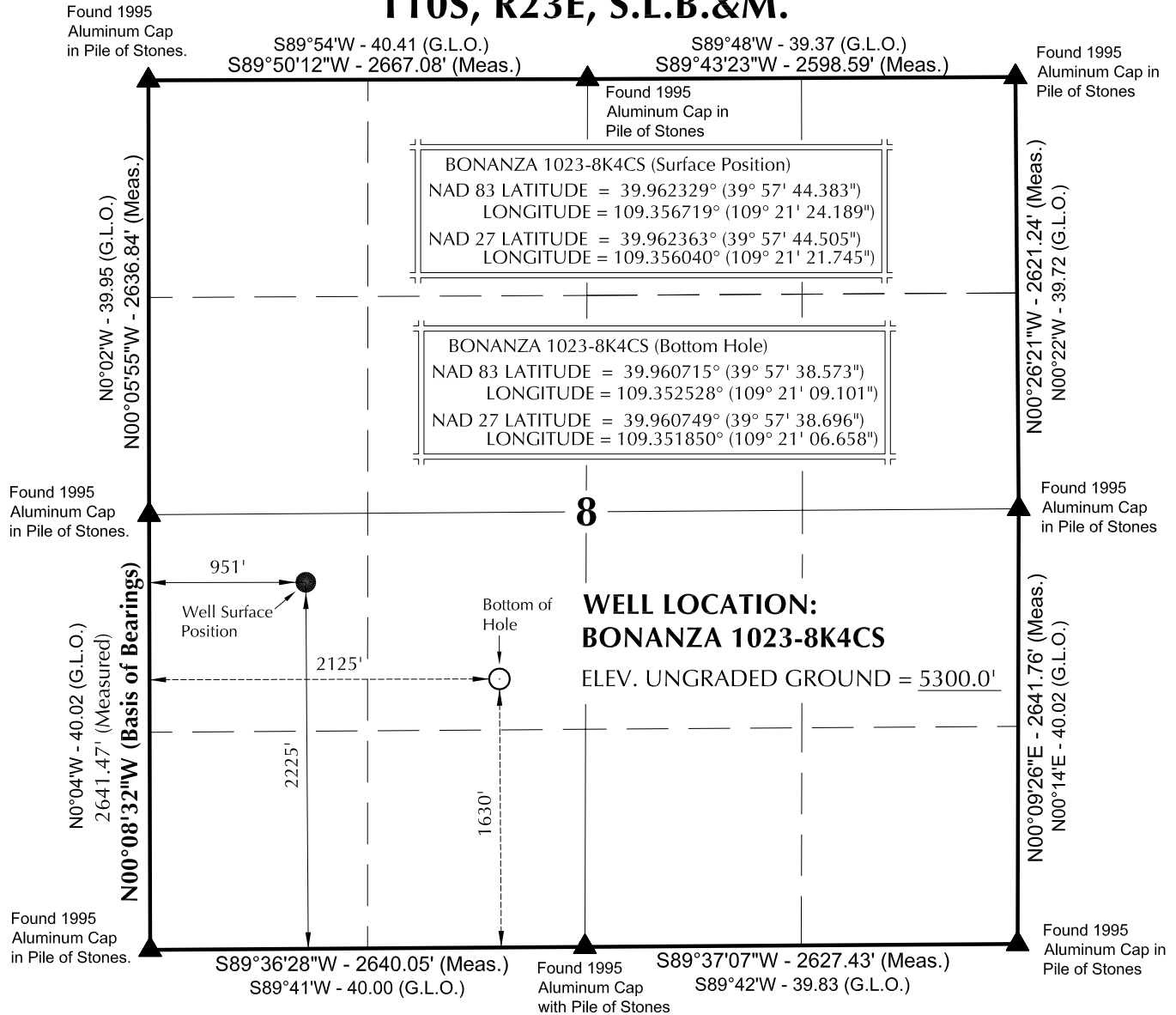
AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER Bonanza 1023-8K4CS		
2. TYPE OF WORK DRILL NEW WELL ☒ REENTER P&A WELL ☐ DEEPEN WELL ☐				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well ☐ Coalbed Methane Well: NO ☐				5. UNIT or COMMUNITIZATION AGREEMENT NAME		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 307-752-1169		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Laura.Gianakos@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 37355		11. MINERAL OWNERSHIP FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐		12. SURFACE OWNERSHIP FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES ☒ (Submit Commingling Application) NO ☐		19. SLANT VERTICAL ☐ DIRECTIONAL ☒ HORIZONTAL ☐		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2225 FSL 951 FWL	NWSW	8	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1630 FSL 2125 FWL	NESW	8	10.0 S	23.0 E	S
At Total Depth	1630 FSL 2125 FWL	NESW	8	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1630		23. NUMBER OF ACRES IN DRILLING UNIT 1920		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 387		26. PROPOSED DEPTH MD: 8446 TVD: 8235		
27. ELEVATION - GROUND LEVEL 5300		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
☒ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			☒ COMPLETE DRILLING PLAN			
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
☒ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			☒ TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156		
SIGNATURE		DATE 07/02/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 43047511520000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8446		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	8446	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	1850		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	1850	28.0			

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



NOTES:

- ▲ = Section Corners Located
1. Well footages are measured at right angles to the Section Lines.
 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
 3. The Bottom of hole bears S63°29'11"E 1314.06' from the Surface Position.
 4. Bearings are based on Global Positioning Satellite observations.
 5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

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

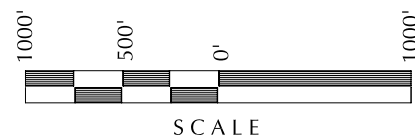
WELL PAD - BONANZA 1023-8L

BONANZA 1023-8K4CS
WELL PLAT

1630' FSL, 2125' FWL (Bottom Hole)
NE $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 8, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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



SURVEYOR'S CERTIFICATE

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


 No. 6028691
 JOHN R.
 HLAUGH
 ENGINEER
 STATE OF UTAH

 John R. Hlaugh
 REGISTERED LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

TIMBERLINE

(435) 789-1365

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

DATE SURVEYED: 02-18-10	SURVEYED BY: M.S.B.	SHEET NO: 4 4 OF 19
DATE DRAWN: 02-19-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised: 06-02-10 E.M.S.	



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-8L PAD

BONANZA 1023-8K4CS

BONANZA 1023-8K4CS

Plan: PLAN #1 5-7-10 RHS

Standard Planning Report

07 May, 2010



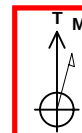
'APIWellNo:43047511520000'



Project: Uintah County, Utah (nad 27)
Site: Bonanza 1023-8L PAD
Well: BONANZA 1023-8K4CS
Wellbore: BONANZA 1023-8K4CS
Section: SECTION 8 T10S R23E
SHL: 2225 FSL 951 FWL
Design: PLAN #1 5-7-10 RHS
Latitude: 39° 57' 44.507 N
Longitude: 109° 21' 21.744 W
GL: 5299.00
KB: WELL @ 5313.00ft (Original Well Elev)



Weatherford®



Azimuths to True North
Magnetic North: 11.17°

Magnetic Field
Strength: 52452.1snT
Dip Angle: 65.91°
Date: 5/7/2010
Model: BGGM2009

LEGEND

- BONANZA 1023-8E2DS, BONANZA 1023-8E2DS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8E3DS, BONANZA 1023-8E3DS, PLAN #1 5-7-10 RHS V0
- BONANZA 1023-8K1CS, BONANZA 1023-8K1CS, PLAN #1 5-7-10 RHS V0
- Bonanza 1023-8L EXISTING, Bonanza 1023-8L EXISTING, Bonanza 1023-8L EXISTING V0
- BONANZA 1023-8L3DS, BONANZA 1023-8L3DS, PLAN #1 5-7-10 RHS V0
- PLAN #1 5-7-10 RHS

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1081.00	1091.01	GREEN RIVER
4037.00	4233.47	WASATCH
7027.00	7238.01	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
1850.00	1906.78	8 5/8"	8.62

SECTION DETAILS

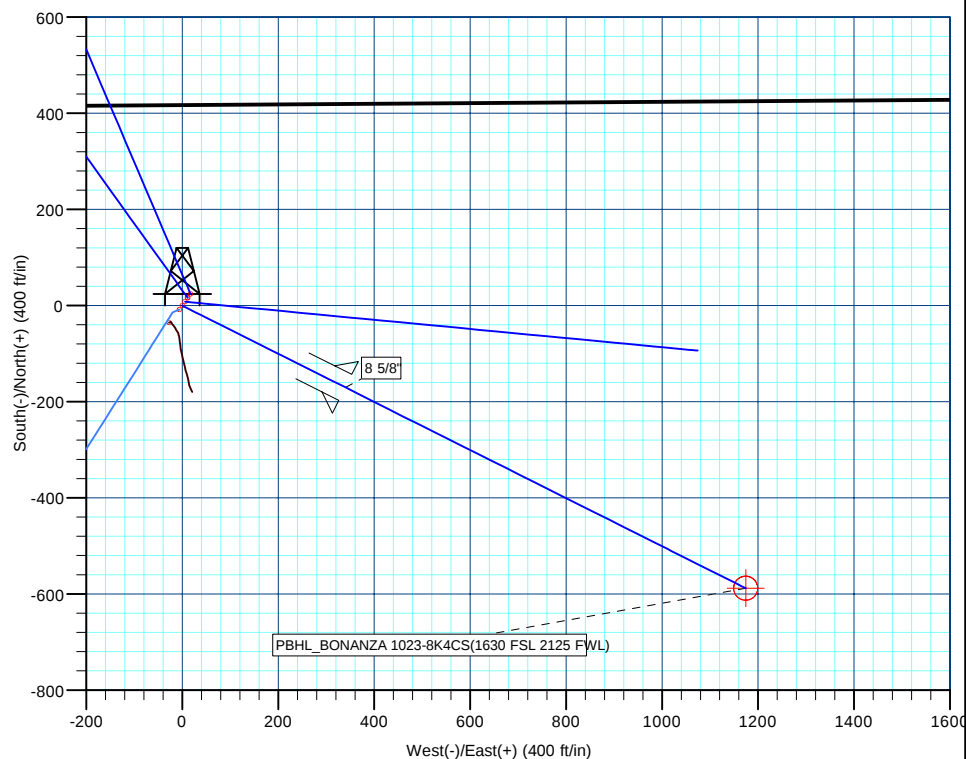
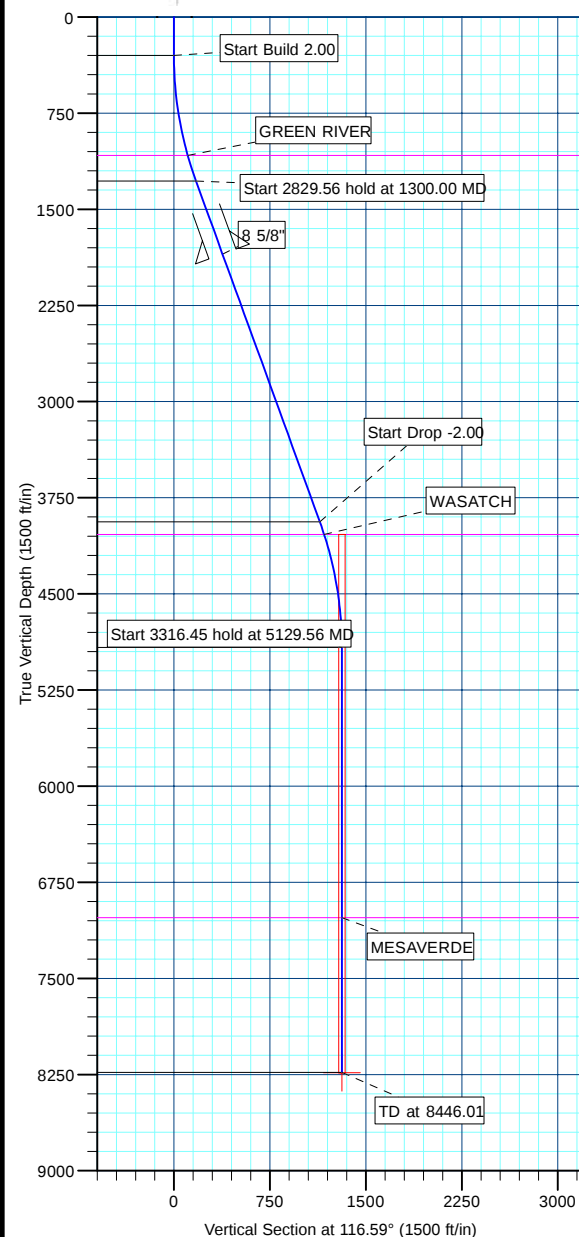
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1300.00	20.00	116.59	1279.82	-77.33	154.50	2.00	116.59	172.77	Start 2829.56 hold at 1300.00 MD
4129.56	20.00	116.59	3938.73	-510.50	1019.91	0.00	0.00	1140.53	Start Drop -2.00
5129.56	0.00	0.00	4918.55	-587.83	1174.40	2.00	180.00	1313.30	Start 3316.45 hold at 5129.56 MD
8446.01	0.00	0.00	8235.00	-587.83	1174.40	0.00	0.00	1313.30	TD at 8446.01

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8235.00	-587.83	1174.40	39° 57' 38.696 N	109° 21' 6.660 W	Circle (Radius: 25.00)

WELL DETAILS: BONANZA 1023-8K4CS

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	14516584.92	2101085.18	5299.00	39° 57' 44.507 N	109° 21' 21.744 W	



Plan: PLAN #1 5-7-10 RHS (BONANZA 1023-8K4CS/BONANZA 1023-8K4CS)

Created By: Robert H. Scott Date: 18:54, May 07 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	North Reference:	True
Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8K4CS		
Design:	PLAN #1 5-7-10 RHS		

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-8L PAD, SECTION 8 T10S R23E			
Site Position:		Northing:	14,516,576.44 ft	Latitude: 39° 57' 44.424 N
From:	Lat/Long	Easting:	2,101,079.45 ft	Longitude: 109° 21' 21.820 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence: 1.06 °

Well	BONANZA 1023-8K4CS			
Well Position	+N/-S	8.38 ft	Northing:	14,516,584.92 ft
	+E/-W	5.89 ft	Easting:	2,101,085.18 ft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
			Ground Level:	5,299.00 ft

Wellbore	BONANZA 1023-8K4CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/7/2010	11.17	65.91	52,452

Design	PLAN #1 5-7-10 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	116.59

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	116.59	1,279.82	-77.33	154.50	2.00	2.00	0.00	116.59	
4,129.56	20.00	116.59	3,938.73	-510.50	1,019.91	0.00	0.00	0.00	0.00	
5,129.56	0.00	0.00	4,918.55	-587.83	1,174.40	2.00	-2.00	0.00	180.00	
8,446.01	0.00	0.00	8,235.00	-587.83	1,174.40	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 1023-8L PAD	North Reference:	True
Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8K4CS		
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	116.59	399.98	-0.78	1.56	1.75	2.00	2.00	0.00
500.00	4.00	116.59	499.84	-3.12	6.24	6.98	2.00	2.00	0.00
600.00	6.00	116.59	599.45	-7.02	14.03	15.69	2.00	2.00	0.00
700.00	8.00	116.59	698.70	-12.48	24.93	27.88	2.00	2.00	0.00
800.00	10.00	116.59	797.47	-19.48	38.92	43.52	2.00	2.00	0.00
900.00	12.00	116.59	895.62	-28.02	55.98	62.60	2.00	2.00	0.00
1,000.00	14.00	116.59	993.06	-38.09	76.10	85.10	2.00	2.00	0.00
GREEN RIVER									
1,091.01	15.82	116.59	1,081.00	-48.57	97.04	108.51	2.00	2.00	0.00
1,100.00	16.00	116.59	1,089.64	-49.67	99.24	110.98	2.00	2.00	0.00
1,200.00	18.00	116.59	1,185.27	-62.76	125.38	140.21	2.00	2.00	0.00
Start 2829.56 hold at 1300.00 MD									
1,300.00	20.00	116.59	1,279.82	-77.33	154.50	172.77	2.00	2.00	0.00
1,400.00	20.00	116.59	1,373.78	-92.64	185.08	206.97	0.00	0.00	0.00
1,500.00	20.00	116.59	1,467.75	-107.95	215.66	241.17	0.00	0.00	0.00
1,600.00	20.00	116.59	1,561.72	-123.26	246.25	275.37	0.00	0.00	0.00
1,700.00	20.00	116.59	1,655.69	-138.56	276.83	309.58	0.00	0.00	0.00
1,800.00	20.00	116.59	1,749.66	-153.87	307.42	343.78	0.00	0.00	0.00
1,900.00	20.00	116.59	1,843.63	-169.18	338.00	377.98	0.00	0.00	0.00
8 5/8"									
1,906.78	20.00	116.59	1,850.00	-170.22	340.08	380.30	0.00	0.00	0.00
2,000.00	20.00	116.59	1,937.60	-184.49	368.59	412.18	0.00	0.00	0.00
2,100.00	20.00	116.59	2,031.57	-199.80	399.17	446.38	0.00	0.00	0.00
2,200.00	20.00	116.59	2,125.54	-215.11	429.76	480.59	0.00	0.00	0.00
2,300.00	20.00	116.59	2,219.51	-230.42	460.34	514.79	0.00	0.00	0.00
2,400.00	20.00	116.59	2,313.48	-245.72	490.93	548.99	0.00	0.00	0.00
2,500.00	20.00	116.59	2,407.45	-261.03	521.51	583.19	0.00	0.00	0.00
2,600.00	20.00	116.59	2,501.42	-276.34	552.10	617.39	0.00	0.00	0.00
2,700.00	20.00	116.59	2,595.39	-291.65	582.68	651.60	0.00	0.00	0.00
2,800.00	20.00	116.59	2,689.35	-306.96	613.27	685.80	0.00	0.00	0.00
2,900.00	20.00	116.59	2,783.32	-322.27	643.85	720.00	0.00	0.00	0.00
3,000.00	20.00	116.59	2,877.29	-337.58	674.44	754.20	0.00	0.00	0.00
3,100.00	20.00	116.59	2,971.26	-352.89	705.02	788.40	0.00	0.00	0.00
3,200.00	20.00	116.59	3,065.23	-368.19	735.60	822.61	0.00	0.00	0.00
3,300.00	20.00	116.59	3,159.20	-383.50	766.19	856.81	0.00	0.00	0.00
3,400.00	20.00	116.59	3,253.17	-398.81	796.77	891.01	0.00	0.00	0.00
3,500.00	20.00	116.59	3,347.14	-414.12	827.36	925.21	0.00	0.00	0.00
3,600.00	20.00	116.59	3,441.11	-429.43	857.94	959.41	0.00	0.00	0.00
3,700.00	20.00	116.59	3,535.08	-444.74	888.53	993.62	0.00	0.00	0.00
3,800.00	20.00	116.59	3,629.05	-460.05	919.11	1,027.82	0.00	0.00	0.00
3,900.00	20.00	116.59	3,723.02	-475.35	949.70	1,062.02	0.00	0.00	0.00
4,000.00	20.00	116.59	3,816.99	-490.66	980.28	1,096.22	0.00	0.00	0.00
4,100.00	20.00	116.59	3,910.95	-505.97	1,010.87	1,130.42	0.00	0.00	0.00
Start Drop -2.00									
4,129.56	20.00	116.59	3,938.73	-510.50	1,019.91	1,140.53	0.00	0.00	0.00
4,200.00	18.59	116.59	4,005.21	-520.91	1,040.72	1,163.81	2.00	-2.00	0.00
WASATCH									
4,233.47	17.92	116.59	4,037.00	-525.61	1,050.10	1,174.30	2.00	-2.00	0.00
4,300.00	16.59	116.59	4,100.53	-534.44	1,067.75	1,194.03	2.00	-2.00	0.00
4,400.00	14.59	116.59	4,196.85	-546.47	1,091.78	1,220.91	2.00	-2.00	0.00
4,500.00	12.59	116.59	4,294.04	-556.99	1,112.79	1,244.40	2.00	-2.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
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Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	North Reference:	True
Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8K4CS		
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)
4,600.00	10.59	116.59	4,392.00	-565.98	1,130.76	1,264.50	2.00	-2.00	0.00
4,700.00	8.59	116.59	4,490.60	-573.44	1,145.66	1,281.16	2.00	-2.00	0.00
4,800.00	6.59	116.59	4,589.71	-579.35	1,157.47	1,294.37	2.00	-2.00	0.00
4,900.00	4.59	116.59	4,689.23	-583.71	1,166.18	1,304.11	2.00	-2.00	0.00
5,000.00	2.59	116.59	4,789.03	-586.52	1,171.78	1,310.37	2.00	-2.00	0.00
5,100.00	0.59	116.59	4,888.99	-587.76	1,174.27	1,313.15	2.00	-2.00	0.00
Start 3316.45 hold at 5129.56 MD									
5,129.56	0.00	0.00	4,918.55	-587.83	1,174.40	1,313.30	2.00	-2.00	0.00
5,200.00	0.00	0.00	4,988.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,300.00	0.00	0.00	5,088.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,400.00	0.00	0.00	5,188.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,500.00	0.00	0.00	5,288.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,600.00	0.00	0.00	5,388.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,700.00	0.00	0.00	5,488.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,800.00	0.00	0.00	5,588.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
5,900.00	0.00	0.00	5,688.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,000.00	0.00	0.00	5,788.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,100.00	0.00	0.00	5,888.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,200.00	0.00	0.00	5,988.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,300.00	0.00	0.00	6,088.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,400.00	0.00	0.00	6,188.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,500.00	0.00	0.00	6,288.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,600.00	0.00	0.00	6,388.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,700.00	0.00	0.00	6,488.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,800.00	0.00	0.00	6,588.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
6,900.00	0.00	0.00	6,688.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,000.00	0.00	0.00	6,788.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,100.00	0.00	0.00	6,888.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,200.00	0.00	0.00	6,988.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
MESAVERDE									
7,238.01	0.00	0.00	7,027.00	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,300.00	0.00	0.00	7,088.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,400.00	0.00	0.00	7,188.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,500.00	0.00	0.00	7,288.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,600.00	0.00	0.00	7,388.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,700.00	0.00	0.00	7,488.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,800.00	0.00	0.00	7,588.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
7,900.00	0.00	0.00	7,688.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
8,000.00	0.00	0.00	7,788.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
8,100.00	0.00	0.00	7,888.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
8,200.00	0.00	0.00	7,988.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
8,300.00	0.00	0.00	8,088.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
8,400.00	0.00	0.00	8,188.99	-587.83	1,174.40	1,313.30	0.00	0.00	0.00
TD at 8446.01 - PBHL BONANZA 1023-8K4CS(1630 FSL 2125 FWL)									
8,446.01	0.00	0.00	8,235.00	-587.83	1,174.40	1,313.30	0.00	0.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site:	Bonanza 1023-8L PAD	North Reference:	True
Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	BONANZA 1023-8K4CS		
Design:	PLAN #1 5-7-10 RHS		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
PBHL_BONANZA 1023-8L PAD	0.00	0.00	8,235.00	-587.83	1,174.40	14,516,018.84	2,102,270.21	39° 57' 38.696 N	109° 21' 6.660 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	1,906.78	1,850.00	8 5/8"	8.62	11.00

Formations						
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(ft)	(ft)	Name	Lithology	(°)	(°)
	1,091.01	1,081.00	GREEN RIVER			
	4,233.47	4,037.00	WASATCH			
	7,238.01	7,027.00	MESAVERDE			

Plan Annotations					
	Measured Depth	Vertical Depth	Local Coordinates		
	(ft)	(ft)	+N/-S	+E/-W	Comment
	(ft)	(ft)	(ft)	(ft)	
	300.00	300.00	0.00	0.00	Start Build 2.00
	1,300.00	1,279.82	-77.33	154.50	Start 2829.56 hold at 1300.00 MD
	4,129.56	3,938.73	-510.50	1,019.91	Start Drop -2.00
	5,129.56	4,918.55	-587.83	1,174.40	Start 3316.45 hold at 5129.56 MD
	8,446.01	8,235.00	-587.83	1,174.40	TD at 8446.01



ANADARKO PETROLEUM CORP.

**UINTAH COUNTY, UTAH (nad 27)
Bonanza 1023-8L PAD
BONANZA 1023-8K4CS**

**BONANZA 1023-8K4CS
PLAN #1 5-7-10 RHS**

Anticollision Report

07 May, 2010





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Reference	PLAN #1 5-7-10 RHS		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	0.00 to 20,000.00ft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 5/7/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,446.01	PLAN #1 5-7-10 RHS (BONANZA 1023-8L)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bonanza 1023-8L PAD						
BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLA	300.00	300.00	29.66	28.57	27.154	CC, ES
BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLA	500.00	498.09	34.56	32.59	17.571	SF
BONANZA 1023-8E3DS - BONANZA 1023-8E3DS - PLA	300.00	300.00	19.72	18.63	18.053	CC, ES
BONANZA 1023-8E3DS - BONANZA 1023-8E3DS - PLA	500.00	498.65	24.80	22.83	12.598	SF
BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLA	300.00	300.00	9.78	8.69	8.952	CC, ES
BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLA	500.00	499.63	12.23	10.29	6.310	SF
Bonanza 1023-8L EXISTING - Bonanza 1023-8L EXISTING	397.36	383.66	43.76	42.14	26.953	CC
Bonanza 1023-8L EXISTING - Bonanza 1023-8L EXISTING	400.00	386.30	43.76	42.13	26.749	ES
Bonanza 1023-8L EXISTING - Bonanza 1023-8L EXISTING	700.00	684.93	53.59	50.48	17.214	SF
BONANZA 1023-8L3DS - BONANZA 1023-8L3DS - PLA	300.00	300.00	10.24	9.15	9.372	CC, ES
BONANZA 1023-8L3DS - BONANZA 1023-8L3DS - PLA	400.00	399.61	12.23	10.72	8.094	SF

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLAN #1 5-7-10 RHS												
Survey Program: 0-MWD												
Reference												
Offset												
Semi Major Axis												
Distance												
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	35.86	24.04	17.38	29.66			
100.00	100.00	100.00	100.00	0.10	0.10	35.86	24.04	17.38	29.66	29.47	0.19	153.451
200.00	200.00	200.00	200.00	0.32	0.32	35.86	24.04	17.38	29.66	29.02	0.64	46.143
300.00	300.00	300.00	300.00	0.55	0.55	35.86	24.04	17.38	29.66	28.57	1.09	27.154 CC, ES
400.00	399.98	399.36	399.34	0.75	0.77	-86.72	25.62	16.70	30.44	28.92	1.52	19.984
500.00	499.84	498.09	497.94	0.96	1.00	-102.18	30.33	14.69	34.56	32.59	1.97	17.571 SF
600.00	599.45	595.58	595.05	1.20	1.24	-119.30	38.05	11.39	45.36	42.92	2.45	18.528
700.00	698.70	691.23	690.01	1.48	1.50	-131.95	48.57	6.90	64.24	61.30	2.94	21.817
800.00	797.47	784.51	782.21	1.80	1.79	-139.93	61.63	1.32	90.69	87.25	3.44	26.332
900.00	895.62	874.95	871.10	2.18	2.11	-144.85	76.92	-5.22	123.93	119.98	3.95	31.385
1,000.00	993.06	962.13	956.25	2.61	2.45	-147.95	94.09	-12.55	163.35	158.89	4.46	36.620
1,100.00	1,089.64	1,045.71	1,037.32	3.11	2.83	-149.95	112.79	-20.54	208.51	203.53	4.98	41.853
1,200.00	1,185.27	1,125.41	1,114.04	3.68	3.22	-151.25	132.63	-29.02	259.02	253.51	5.51	46.977
1,300.00	1,279.82	1,200.00	1,185.27	4.32	3.62	-152.05	152.98	-37.71	314.52	308.47	6.05	51.947
1,400.00	1,373.78	1,273.31	1,254.69	5.00	4.06	-153.13	174.62	-46.96	373.44	366.82	6.62	56.438
1,500.00	1,467.75	1,349.36	1,326.20	5.69	4.54	-153.88	198.44	-57.14	433.97	426.78	7.19	60.389

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 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLAN #1 5-7-10 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		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	
1,600.00	1,561.72	1,428.73	1,400.79	6.39	5.05	-154.47	223.40	-67.80	494.67	486.89	7.78	63.572	
1,700.00	1,655.69	1,508.11	1,475.38	7.10	5.57	-154.93	248.37	-78.47	555.40	547.04	8.36	66.401	
1,800.00	1,749.66	1,587.49	1,549.97	7.81	6.09	-155.30	273.33	-89.14	616.15	607.19	8.96	68.763	
1,900.00	1,843.63	1,666.87	1,624.56	8.53	6.62	-155.60	298.30	-99.81	676.91	667.35	9.56	70.781	
2,000.00	1,937.60	1,746.24	1,699.15	9.24	7.15	-155.85	323.26	-110.47	737.68	727.51	10.17	72.525	
2,100.00	2,031.57	1,825.62	1,773.74	9.96	7.68	-156.07	348.23	-121.14	798.46	787.67	10.78	74.042	
2,200.00	2,125.54	1,905.00	1,848.33	10.68	8.21	-156.26	373.19	-131.81	859.24	847.84	11.40	75.370	
2,300.00	2,219.51	1,984.38	1,922.92	11.40	8.75	-156.42	398.16	-142.47	920.03	908.01	12.02	76.535	
2,400.00	2,313.48	2,063.75	1,997.51	12.12	9.29	-156.56	423.12	-153.14	980.82	968.18	12.64	77.568	
2,500.00	2,407.45	2,143.13	2,072.10	12.84	9.82	-156.68	448.09	-163.81	1,041.62	1,028.35	13.27	78.490	
2,600.00	2,501.42	2,222.51	2,146.69	13.57	10.36	-156.79	473.05	-174.47	1,102.42	1,088.52	13.90	79.317	
2,700.00	2,595.39	2,301.89	2,221.28	14.29	10.90	-156.89	498.02	-185.14	1,163.22	1,148.69	14.53	80.061	
2,800.00	2,689.35	2,381.26	2,295.87	15.02	11.44	-156.98	522.98	-195.81	1,224.02	1,208.86	15.16	80.732	
2,900.00	2,783.32	2,460.64	2,370.46	15.74	11.98	-157.06	547.95	-206.47	1,284.83	1,269.03	15.80	81.341	
3,000.00	2,877.29	2,540.02	2,445.05	16.46	12.52	-157.13	572.91	-217.14	1,345.64	1,329.21	16.43	81.897	
3,100.00	2,971.26	2,619.39	2,519.64	17.19	13.06	-157.20	597.88	-227.81	1,406.44	1,389.38	17.07	82.406	
3,200.00	3,065.23	2,698.77	2,594.23	17.92	13.60	-157.26	622.85	-238.48	1,467.25	1,449.55	17.70	82.872	
3,300.00	3,159.20	2,778.15	2,668.82	18.64	14.14	-157.32	647.81	-249.14	1,528.06	1,509.72	18.34	83.301	
3,400.00	3,253.17	2,857.53	2,743.41	19.37	14.68	-157.37	672.78	-259.81	1,588.87	1,569.89	18.98	83.696	
3,500.00	3,347.14	2,936.90	2,818.00	20.09	15.23	-157.42	697.74	-270.48	1,649.69	1,630.06	19.62	84.062	
3,600.00	3,441.11	3,016.28	2,892.59	20.82	15.77	-157.46	722.71	-281.14	1,710.50	1,690.23	20.27	84.402	
3,700.00	3,535.08	3,095.66	2,967.18	21.55	16.31	-157.51	747.67	-291.81	1,771.31	1,750.40	20.91	84.718	
3,800.00	3,629.05	3,175.04	3,041.77	22.27	16.85	-157.54	772.64	-302.48	1,832.12	1,810.57	21.55	85.011	
3,900.00	3,723.02	3,254.41	3,116.36	23.00	17.40	-157.58	797.60	-313.14	1,892.94	1,870.74	22.20	85.285	
4,000.00	3,816.99	3,333.79	3,190.95	23.73	17.94	-157.62	822.57	-323.81	1,953.75	1,930.91	22.84	85.542	
4,100.00	3,910.95	3,413.17	3,265.54	24.45	18.48	-157.65	847.53	-334.48	2,014.57	1,991.08	23.48	85.783	
4,129.56	3,938.73	3,436.63	3,287.59	24.67	18.64	-157.66	854.91	-337.63	2,032.54	2,008.87	23.68	85.850	
4,200.00	4,005.21	3,493.03	3,340.59	25.11	19.03	-158.06	872.65	-345.21	2,074.74	2,050.52	24.22	85.669	
4,300.00	4,100.53	3,574.72	3,417.35	25.62	19.59	-158.56	898.34	-356.19	2,132.42	2,107.46	24.95	85.462	
4,400.00	4,196.85	3,658.21	3,495.81	26.07	20.16	-158.98	924.60	-367.41	2,187.40	2,161.74	25.67	85.223	
4,500.00	4,294.04	3,743.41	3,575.87	26.47	20.74	-159.31	951.40	-378.86	2,239.65	2,213.29	26.36	84.965	
4,600.00	4,392.00	3,983.51	3,803.82	26.82	22.02	-159.41	1,020.55	-408.40	2,287.37	2,259.93	27.44	83.367	
4,700.00	4,490.60	4,366.20	4,177.76	27.12	23.41	-159.53	1,094.15	-439.85	2,322.19	2,293.50	28.68	80.964	
4,800.00	4,589.71	4,779.58	4,589.71	27.37	24.15	-159.88	1,121.44	-451.51	2,341.26	2,311.61	29.65	78.959	
4,900.00	4,689.23	4,879.10	4,689.23	27.57	24.23	-160.02	1,121.44	-451.51	2,350.42	2,320.38	30.04	78.242	
5,000.00	4,789.03	4,978.90	4,789.03	27.72	24.32	-160.11	1,121.44	-451.51	2,356.31	2,325.93	30.38	77.550	
5,100.00	4,888.99	5,078.85	4,888.99	27.83	24.41	-160.16	1,121.44	-451.51	2,358.92	2,328.24	30.68	76.882	
5,129.56	4,918.55	5,108.41	4,918.55	27.85	24.44	-43.57	1,121.44	-451.51	2,359.06	2,328.30	30.76	76.685	
5,200.00	4,988.99	5,178.85	4,988.99	27.90	24.50	-43.57	1,121.44	-451.51	2,359.06	2,328.11	30.96	76.200	
5,300.00	5,088.99	5,278.85	5,088.99	27.98	24.60	-43.57	1,121.44	-451.51	2,359.06	2,327.83	31.24	75.515	
5,400.00	5,188.99	5,378.85	5,188.99	28.06	24.69	-43.57	1,121.44	-451.51	2,359.06	2,327.54	31.52	74.834	
5,500.00	5,288.99	5,478.85	5,288.99	28.15	24.79	-43.57	1,121.44	-451.51	2,359.06	2,327.25	31.81	74.156	
5,600.00	5,388.99	5,578.85	5,388.99	28.23	24.89	-43.57	1,121.44	-451.51	2,359.06	2,326.96	32.10	73.481	
5,700.00	5,488.99	5,678.85	5,488.99	28.32	24.99	-43.57	1,121.44	-451.51	2,359.06	2,326.67	32.40	72.811	
5,800.00	5,588.99	5,778.85	5,588.99	28.40	25.09	-43.57	1,121.44	-451.51	2,359.06	2,326.37	32.70	72.145	
5,900.00	5,688.99	5,878.85	5,688.99	28.49	25.20	-43.57	1,121.44	-451.51	2,359.06	2,326.06	33.00	71.484	
6,000.00	5,788.99	5,978.85	5,788.99	28.58	25.30	-43.57	1,121.44	-451.51	2,359.06	2,325.76	33.31	70.828	
6,100.00	5,888.99	6,078.85	5,888.99	28.68	25.41	-43.57	1,121.44	-451.51	2,359.06	2,325.45	33.62	70.177	
6,200.00	5,988.99	6,178.85	5,988.99	28.77	25.52	-43.57	1,121.44	-451.51	2,359.06	2,325.14	33.93	69.531	
6,300.00	6,088.99	6,278.85	6,088.99	28.86	25.63	-43.57	1,121.44	-451.51	2,359.06	2,324.82	34.24	68.891	
6,400.00	6,188.99	6,378.85	6,188.99	28.96	25.74	-43.57	1,121.44	-451.51	2,359.06	2,324.50	34.56	68.257	
6,500.00	6,288.99	6,478.85	6,288.99	29.06	25.85	-43.57	1,121.44	-451.51	2,359.06	2,324.18	34.88	67.629	

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 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8E2DS - BONANZA 1023-8E2DS - PLAN #1 5-7-10 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		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	
6,600.00	6,388.99	6,578.85	6,388.99	29.16	25.97	-43.57	1,121.44	-451.51	2,359.06	2,323.86	35.21	67.007	
6,700.00	6,488.99	6,678.85	6,488.99	29.26	26.08	-43.57	1,121.44	-451.51	2,359.06	2,323.53	35.53	66.391	
6,800.00	6,588.99	6,778.85	6,588.99	29.36	26.20	-43.57	1,121.44	-451.51	2,359.06	2,323.20	35.86	65.782	
6,900.00	6,688.99	6,878.85	6,688.99	29.46	26.32	-43.57	1,121.44	-451.51	2,359.06	2,322.87	36.19	65.179	
7,000.00	6,788.99	6,978.85	6,788.99	29.57	26.44	-43.57	1,121.44	-451.51	2,359.06	2,322.54	36.53	64.583	
7,100.00	6,888.99	7,078.85	6,888.99	29.67	26.56	-43.57	1,121.44	-451.51	2,359.06	2,322.20	36.86	63.993	
7,200.00	6,988.99	7,178.85	6,988.99	29.78	26.68	-43.57	1,121.44	-451.51	2,359.06	2,321.86	37.20	63.409	
7,300.00	7,088.99	7,278.85	7,088.99	29.89	26.80	-43.57	1,121.44	-451.51	2,359.06	2,321.52	37.55	62.833	
7,400.00	7,188.99	7,378.85	7,188.99	30.00	26.93	-43.57	1,121.44	-451.51	2,359.06	2,321.18	37.89	62.263	
7,500.00	7,288.99	7,478.85	7,288.99	30.11	27.06	-43.57	1,121.44	-451.51	2,359.06	2,320.83	38.23	61.700	
7,600.00	7,388.99	7,578.85	7,388.99	30.22	27.18	-43.57	1,121.44	-451.51	2,359.06	2,320.48	38.58	61.143	
7,700.00	7,488.99	7,678.85	7,488.99	30.34	27.31	-43.57	1,121.44	-451.51	2,359.06	2,320.13	38.93	60.594	
7,800.00	7,588.99	7,778.85	7,588.99	30.45	27.44	-43.57	1,121.44	-451.51	2,359.06	2,319.78	39.28	60.051	
7,900.00	7,688.99	7,878.85	7,688.99	30.57	27.58	-43.57	1,121.44	-451.51	2,359.06	2,319.43	39.64	59.514	
8,000.00	7,788.99	7,978.85	7,788.99	30.68	27.71	-43.57	1,121.44	-451.51	2,359.06	2,319.07	39.99	58.985	
8,100.00	7,888.99	8,078.85	7,888.99	30.80	27.84	-43.57	1,121.44	-451.51	2,359.06	2,318.71	40.35	58.462	
8,200.00	7,988.99	8,178.85	7,988.99	30.92	27.98	-43.57	1,121.44	-451.51	2,359.06	2,318.35	40.71	57.945	
8,300.00	8,088.99	8,278.85	8,088.99	31.04	28.11	-43.57	1,121.44	-451.51	2,359.06	2,317.99	41.07	57.436	
8,400.00	8,188.99	8,378.85	8,188.99	31.17	28.25	-43.57	1,121.44	-451.51	2,359.06	2,317.63	41.44	56.932	
8,446.01	8,235.00	8,424.87	8,235.00	31.22	28.31	-43.57	1,121.44	-451.51	2,359.06	2,317.46	41.60	56.703	



Weatherford International Ltd.

Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	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	35.64	16.03	11.49	19.72				
100.00	100.00	100.00	100.00	0.10	0.10	35.64	16.03	11.49	19.72	19.53	0.19	102.018	
200.00	200.00	200.00	200.00	0.32	0.32	35.64	16.03	11.49	19.72	19.08	0.64	30.677	
300.00	300.00	300.00	300.00	0.55	0.55	35.64	16.03	11.49	19.72	18.63	1.09	18.053 CC, ES	
400.00	399.98	399.67	399.65	0.75	0.77	-90.47	17.43	10.48	20.28	18.76	1.52	13.318	
500.00	499.84	498.65	498.49	0.96	1.00	-113.50	21.61	7.47	24.80	22.83	1.97	12.598 SF	
600.00	599.45	596.30	595.77	1.20	1.24	-133.95	28.45	2.55	37.47	35.02	2.45	15.299	
700.00	698.70	691.97	690.75	1.48	1.50	-145.78	37.75	-4.15	58.59	55.65	2.93	19.974	
800.00	797.47	785.11	782.79	1.80	1.79	-152.20	49.28	-12.45	87.07	83.66	3.42	25.490	
900.00	895.62	875.20	871.34	2.18	2.11	-155.85	62.73	-22.14	122.18	118.28	3.90	31.331	
1,000.00	993.06	961.82	955.94	2.61	2.46	-158.05	77.79	-32.98	163.41	159.02	4.39	37.265	
1,100.00	1,089.64	1,044.60	1,036.24	3.11	2.84	-159.43	94.11	-44.74	210.37	205.49	4.87	43.178	
1,200.00	1,185.27	1,123.27	1,111.98	3.68	3.23	-160.30	111.36	-57.16	262.70	257.34	5.36	49.006	
1,300.00	1,279.82	1,200.00	1,185.27	4.32	3.65	-160.87	129.81	-70.44	320.07	314.21	5.86	54.652	
1,400.00	1,373.78	1,268.46	1,250.12	5.00	4.06	-161.57	147.61	-83.26	380.81	374.45	6.36	59.883	
1,500.00	1,467.75	1,342.30	1,319.56	5.69	4.53	-162.08	167.97	-97.92	443.20	436.33	6.87	64.494	
1,600.00	1,561.72	1,420.24	1,392.80	6.39	5.04	-162.48	189.60	-113.50	505.80	498.38	7.41	68.241	
1,700.00	1,655.69	1,498.18	1,466.04	7.10	5.56	-162.79	211.23	-129.07	568.41	560.47	7.94	71.622	
1,800.00	1,749.66	1,576.12	1,539.28	7.81	6.08	-163.04	232.86	-144.65	631.02	622.55	8.47	74.468	
1,900.00	1,843.63	1,654.06	1,612.53	8.53	6.61	-163.25	254.50	-160.23	693.65	684.63	9.02	76.936	
2,000.00	1,937.60	1,732.00	1,685.77	9.24	7.13	-163.42	276.13	-175.81	756.28	746.72	9.56	79.087	
2,100.00	2,031.57	1,809.94	1,759.01	9.96	7.67	-163.57	297.76	-191.38	818.91	808.80	10.11	80.972	
2,200.00	2,125.54	1,887.88	1,832.25	10.68	8.20	-163.69	319.39	-206.96	881.55	870.88	10.67	82.628	
2,300.00	2,219.51	1,965.82	1,905.49	11.40	8.73	-163.80	341.03	-222.54	944.18	932.96	11.23	84.095	
2,400.00	2,313.48	2,043.77	1,978.73	12.12	9.27	-163.89	362.66	-238.11	1,006.82	995.03	11.79	85.406	
2,500.00	2,407.45	2,121.71	2,051.97	12.84	9.80	-163.98	384.29	-253.69	1,069.46	1,057.11	12.35	86.581	
2,600.00	2,501.42	2,199.65	2,125.21	13.57	10.34	-164.05	405.92	-269.27	1,132.10	1,119.19	12.92	87.640	
2,700.00	2,595.39	2,277.59	2,198.45	14.29	10.88	-164.12	427.56	-284.85	1,194.75	1,181.26	13.49	88.594	
2,800.00	2,689.35	2,355.53	2,271.69	15.02	11.42	-164.18	449.19	-300.42	1,257.39	1,243.34	14.06	89.461	
2,900.00	2,783.32	2,433.47	2,344.93	15.74	11.96	-164.23	470.82	-316.00	1,320.04	1,305.41	14.63	90.252	
3,000.00	2,877.29	2,511.41	2,418.17	16.46	12.50	-164.28	492.45	-331.58	1,382.68	1,367.48	15.20	90.976	
3,100.00	2,971.26	2,589.35	2,491.41	17.19	13.04	-164.33	514.09	-347.16	1,445.33	1,429.56	15.77	91.639	
3,200.00	3,065.23	2,667.29	2,564.65	17.92	13.58	-164.37	535.72	-362.73	1,507.97	1,491.63	16.35	92.249	
3,300.00	3,159.20	2,745.23	2,637.89	18.64	14.12	-164.41	557.35	-378.31	1,570.62	1,553.70	16.92	92.812	
3,400.00	3,253.17	2,823.17	2,711.13	19.37	14.66	-164.44	578.98	-393.89	1,633.27	1,615.77	17.50	93.334	
3,500.00	3,347.14	2,901.60	2,831.30	20.09	15.43	-164.51	613.36	-418.64	1,695.38	1,677.20	18.18	93.258	
3,600.00	3,441.11	3,146.91	3,019.67	20.82	16.35	-164.70	658.10	-450.86	1,753.08	1,734.11	18.97	92.425	
3,700.00	3,535.08	3,361.74	3,229.60	21.55	17.16	-165.01	694.94	-477.38	1,804.96	1,785.21	19.75	91.376	
3,800.00	3,629.05	3,595.08	3,460.76	22.27	17.79	-165.46	720.37	-495.69	1,850.24	1,829.72	20.52	90.184	
3,900.00	3,723.02	3,845.95	3,711.23	23.00	18.17	-166.05	730.58	-503.05	1,888.10	1,866.87	21.23	88.945	
4,000.00	3,816.99	3,951.70	3,816.99	23.73	18.27	-166.33	730.63	-503.09	1,921.44	1,899.71	21.73	88.424	
4,100.00	3,910.95	4,045.67	3,910.95	24.45	18.36	-166.56	730.63	-503.09	1,954.80	1,932.58	22.22	87.962	
4,129.56	3,938.73	4,073.45	3,938.73	24.67	18.39	-166.63	730.63	-503.09	1,964.67	1,942.30	22.37	87.829	
4,200.00	4,005.21	4,139.93	4,005.21	25.11	18.46	-166.90	730.63	-503.09	1,987.39	1,964.56	22.83	87.040	
4,300.00	4,100.53	4,235.25	4,100.53	25.62	18.55	-167.23	730.63	-503.09	2,016.91	1,993.47	23.44	86.029	
4,400.00	4,196.85	4,331.56	4,196.85	26.07	18.65	-167.51	730.63	-503.09	2,043.18	2,019.16	24.02	85.060	
4,500.00	4,294.04	4,428.76	4,294.04	26.47	18.75	-167.75	730.63	-503.09	2,066.16	2,041.60	24.56	84.128	
4,600.00	4,392.00	4,526.71	4,392.00	26.82	18.86	-167.95	730.63	-503.09	2,085.82	2,060.76	25.06	83.230	
4,700.00	4,490.60	4,625.31	4,490.60	27.12	18.96	-168.12	730.63	-503.09	2,102.13	2,076.61	25.52	82.364	
4,800.00	4,589.71	4,724.43	4,589.71	27.37	19.07	-168.24	730.63	-503.09	2,115.07	2,089.12	25.94	81.524	
4,900.00	4,689.23	4,823.95	4,689.23	27.57	19.19	-168.34	730.63	-503.09	2,124.61	2,098.29	26.32	80.708	
5,000.00	4,789.03	4,923.75	4,789.03	27.72	19.30	-168.40	730.63	-503.09	2,130.74	2,104.08	26.66	79.912	

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 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	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	
5,100.00	4,888.99	5,023.70	4,888.99	27.83	19.42	-168.42	730.63	-503.09	2,133.47	2,106.50	26.96	79.130	
5,129.56	4,918.55	5,053.26	4,918.55	27.85	19.45	-51.83	730.63	-503.09	2,133.61	2,106.57	27.04	78.896	
5,200.00	4,988.99	5,123.70	4,988.99	27.90	19.54	-51.83	730.63	-503.09	2,133.61	2,106.35	27.27	78.245	
5,300.00	5,088.99	5,223.70	5,088.99	27.98	19.66	-51.83	730.63	-503.09	2,133.61	2,106.03	27.59	77.336	
5,400.00	5,188.99	5,323.70	5,188.99	28.06	19.78	-51.83	730.63	-503.09	2,133.61	2,105.70	27.91	76.438	
5,500.00	5,288.99	5,423.70	5,288.99	28.15	19.90	-51.83	730.63	-503.09	2,133.61	2,105.37	28.24	75.552	
5,600.00	5,388.99	5,523.70	5,388.99	28.23	20.03	-51.83	730.63	-503.09	2,133.61	2,105.04	28.57	74.678	
5,700.00	5,488.99	5,623.70	5,488.99	28.32	20.15	-51.83	730.63	-503.09	2,133.61	2,104.71	28.90	73.816	
5,800.00	5,588.99	5,723.70	5,588.99	28.40	20.28	-51.83	730.63	-503.09	2,133.61	2,104.37	29.24	72.966	
5,900.00	5,688.99	5,823.70	5,688.99	28.49	20.41	-51.83	730.63	-503.09	2,133.61	2,104.03	29.58	72.128	
6,000.00	5,788.99	5,923.70	5,788.99	28.58	20.55	-51.83	730.63	-503.09	2,133.61	2,103.69	29.92	71.303	
6,100.00	5,888.99	6,023.70	5,888.99	28.68	20.68	-51.83	730.63	-503.09	2,133.61	2,103.35	30.27	70.490	
6,200.00	5,988.99	6,123.70	5,988.99	28.77	20.82	-51.83	730.63	-503.09	2,133.61	2,103.00	30.62	69.689	
6,300.00	6,088.99	6,223.70	6,088.99	28.86	20.95	-51.83	730.63	-503.09	2,133.61	2,102.65	30.97	68.900	
6,400.00	6,188.99	6,323.70	6,188.99	28.96	21.09	-51.83	730.63	-503.09	2,133.61	2,102.29	31.32	68.124	
6,500.00	6,288.99	6,423.70	6,288.99	29.06	21.23	-51.83	730.63	-503.09	2,133.61	2,101.94	31.68	67.360	
6,600.00	6,388.99	6,523.70	6,388.99	29.16	21.37	-51.83	730.63	-503.09	2,133.61	2,101.58	32.03	66.608	
6,700.00	6,488.99	6,623.70	6,488.99	29.26	21.52	-51.83	730.63	-503.09	2,133.61	2,101.22	32.39	65.868	
6,800.00	6,588.99	6,723.70	6,588.99	29.36	21.66	-51.83	730.63	-503.09	2,133.61	2,100.86	32.75	65.140	
6,900.00	6,688.99	6,823.70	6,688.99	29.46	21.81	-51.83	730.63	-503.09	2,133.61	2,100.50	33.12	64.423	
7,000.00	6,788.99	6,923.70	6,788.99	29.57	21.95	-51.83	730.63	-503.09	2,133.61	2,100.13	33.48	63.719	
7,100.00	6,888.99	7,023.70	6,888.99	29.67	22.10	-51.83	730.63	-503.09	2,133.61	2,099.76	33.85	63.026	
7,200.00	6,988.99	7,123.70	6,988.99	29.78	22.25	-51.83	730.63	-503.09	2,133.61	2,099.39	34.22	62.344	
7,300.00	7,088.99	7,223.70	7,088.99	29.89	22.40	-51.83	730.63	-503.09	2,133.61	2,099.02	34.59	61.674	
7,400.00	7,188.99	7,323.70	7,188.99	30.00	22.55	-51.83	730.63	-503.09	2,133.61	2,098.65	34.97	61.015	
7,500.00	7,288.99	7,423.70	7,288.99	30.11	22.71	-51.83	730.63	-503.09	2,133.61	2,098.27	35.34	60.367	
7,600.00	7,388.99	7,523.70	7,388.99	30.22	22.86	-51.83	730.63	-503.09	2,133.61	2,097.89	35.72	59.730	
7,700.00	7,488.99	7,623.70	7,488.99	30.34	23.02	-51.83	730.63	-503.09	2,133.61	2,097.51	36.10	59.103	
7,800.00	7,588.99	7,723.70	7,588.99	30.45	23.17	-51.83	730.63	-503.09	2,133.61	2,097.13	36.48	58.487	
7,900.00	7,688.99	7,823.70	7,688.99	30.57	23.33	-51.83	730.63	-503.09	2,133.61	2,096.75	36.86	57.881	
8,000.00	7,788.99	7,923.70	7,788.99	30.68	23.49	-51.83	730.63	-503.09	2,133.61	2,096.37	37.25	57.285	
8,100.00	7,888.99	8,023.70	7,888.99	30.80	23.65	-51.83	730.63	-503.09	2,133.61	2,095.98	37.63	56.700	
8,200.00	7,988.99	8,123.70	7,988.99	30.92	23.81	-51.83	730.63	-503.09	2,133.61	2,095.60	38.02	56.124	
8,300.00	8,088.99	8,223.70	8,088.99	31.04	23.97	-51.83	730.63	-503.09	2,133.61	2,095.21	38.40	55.557	
8,400.00	8,188.99	8,323.70	8,188.99	31.17	24.14	-51.83	730.63	-503.09	2,133.61	2,094.82	38.79	55.000	
8,446.01	8,235.00	8,369.72	8,235.00	31.22	24.21	-51.83	730.63	-503.09	2,133.61	2,094.64	38.97	54.747	



Weatherford International Ltd.

Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	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	34.98	8.01	5.61	9.78				
100.00	100.00	100.00	100.00	0.10	0.10	34.98	8.01	5.61	9.78	9.59	0.19	50.590	
200.00	200.00	200.00	200.00	0.32	0.32	34.98	8.01	5.61	9.78	9.14	0.64	15.212	
300.00	300.00	300.00	300.00	0.55	0.55	34.98	8.01	5.61	9.78	8.69	1.09	8.952 CC, ES	
400.00	399.98	399.83	399.81	0.75	0.76	-82.76	7.85	7.34	10.39	8.87	1.51	6.869	
500.00	499.84	499.63	499.47	0.96	0.97	-85.52	7.35	12.53	12.23	10.29	1.94	6.310 SF	
600.00	599.45	599.39	598.84	1.20	1.22	-88.61	6.53	21.16	15.33	12.91	2.42	6.343	
700.00	698.70	699.07	697.78	1.48	1.49	-91.28	5.39	33.23	19.72	16.75	2.97	6.648	
800.00	797.47	798.66	796.14	1.80	1.81	-93.32	3.91	48.70	25.39	21.79	3.60	7.048	
900.00	895.62	898.13	893.79	2.18	2.18	-94.81	2.12	67.54	32.34	28.00	4.34	7.449	
1,000.00	993.06	997.45	990.59	2.61	2.61	-95.89	0.02	89.71	40.54	35.35	5.19	7.807	
1,100.00	1,089.64	1,096.62	1,086.40	3.11	3.10	-96.65	-2.40	115.16	49.98	43.82	6.17	8.105	
1,200.00	1,185.27	1,195.61	1,181.09	3.68	3.65	-97.19	-5.13	143.84	60.65	53.38	7.27	8.343	
1,300.00	1,279.82	1,294.40	1,274.55	4.32	4.27	-97.57	-8.16	175.70	72.54	64.03	8.51	8.525	
1,400.00	1,373.78	1,393.58	1,367.75	5.00	4.94	-97.92	-11.37	209.46	85.06	75.22	9.84	8.648	
1,500.00	1,467.75	1,492.79	1,460.98	5.69	5.62	-98.18	-14.58	243.24	97.59	86.40	11.19	8.722	
1,600.00	1,561.72	1,592.00	1,554.21	6.39	6.32	-98.38	-17.80	277.02	110.11	97.56	12.56	8.769	
1,700.00	1,655.69	1,691.21	1,647.44	7.10	7.01	-98.54	-21.01	310.80	122.64	108.71	13.94	8.799	
1,800.00	1,749.66	1,790.42	1,740.66	7.81	7.71	-98.68	-24.22	344.58	135.17	119.85	15.33	8.820	
1,900.00	1,843.63	1,889.64	1,833.89	8.53	8.42	-98.78	-27.43	378.36	147.70	130.98	16.72	8.834	
2,000.00	1,937.60	1,988.85	1,927.12	9.24	9.12	-98.88	-30.64	412.14	160.23	142.11	18.12	8.843	
2,100.00	2,031.57	2,088.06	2,020.35	9.96	9.83	-98.95	-33.86	445.92	172.77	153.24	19.52	8.849	
2,200.00	2,125.54	2,187.27	2,113.58	10.68	10.54	-99.02	-37.07	479.70	185.30	164.37	20.93	8.853	
2,300.00	2,219.51	2,286.48	2,206.81	11.40	11.25	-99.08	-40.28	513.48	197.83	175.49	22.34	8.856	
2,400.00	2,313.48	2,385.69	2,300.03	12.12	11.97	-99.13	-43.49	547.26	210.36	186.61	23.75	8.858	
2,500.00	2,407.45	2,484.91	2,393.26	12.84	12.68	-99.18	-46.70	581.04	222.89	197.73	25.16	8.859	
2,600.00	2,501.42	2,584.12	2,486.49	13.57	13.39	-99.22	-49.92	614.82	235.43	208.85	26.58	8.859	
2,700.00	2,595.39	2,683.33	2,579.72	14.29	14.11	-99.26	-53.13	648.60	247.96	219.97	27.99	8.859	
2,800.00	2,689.35	2,782.54	2,672.95	15.02	14.82	-99.29	-56.34	682.38	260.49	231.08	29.41	8.858	
2,900.00	2,783.32	2,881.75	2,766.18	15.74	15.54	-99.32	-59.55	716.16	273.02	242.20	30.82	8.858	
3,000.00	2,877.29	2,980.96	2,859.40	16.46	16.25	-99.35	-62.76	749.94	285.56	253.32	32.24	8.857	
3,100.00	2,971.26	3,080.17	2,952.63	17.19	16.97	-99.37	-65.98	783.72	298.09	264.43	33.66	8.856	
3,200.00	3,065.23	3,179.39	3,045.86	17.92	17.69	-99.40	-69.19	817.50	310.62	275.54	35.08	8.855	
3,300.00	3,159.20	3,278.60	3,139.09	18.64	18.40	-99.42	-72.40	851.28	323.15	286.66	36.50	8.854	
3,400.00	3,253.17	3,377.81	3,232.32	19.37	19.12	-99.44	-75.61	885.06	335.69	297.77	37.92	8.853	
3,500.00	3,347.14	3,478.13	3,326.73	20.09	19.80	-99.53	-78.82	918.80	348.14	308.84	39.30	8.859	
3,600.00	3,441.11	3,579.55	3,423.20	20.82	20.34	-100.11	-81.78	949.96	360.06	319.52	40.54	8.882	
3,700.00	3,535.08	3,680.76	3,520.51	21.55	20.82	-101.20	-84.42	977.65	371.46	329.76	41.70	8.907	
3,800.00	3,629.05	3,781.49	3,618.27	22.27	21.24	-102.74	-86.71	1,001.79	382.53	339.75	42.78	8.942	
3,900.00	3,723.02	3,881.50	3,716.12	23.00	21.60	-104.70	-88.67	1,022.36	393.51	349.76	43.75	8.994	
4,000.00	3,816.99	3,980.56	3,813.69	23.73	21.91	-107.01	-90.29	1,039.37	404.73	360.13	44.59	9.076	
4,100.00	3,910.95	4,078.46	3,910.64	24.45	22.17	-109.63	-91.57	1,052.87	416.52	371.24	45.28	9.198	
4,129.56	3,938.73	4,107.14	3,939.12	24.67	22.24	-110.46	-91.89	1,056.20	420.18	374.72	45.46	9.243	
4,200.00	4,005.21	4,175.20	4,006.84	25.11	22.38	-112.57	-92.53	1,062.97	428.96	383.21	45.76	9.375	
4,300.00	4,100.53	4,271.31	4,102.70	25.62	22.54	-115.44	-93.18	1,069.79	441.27	395.30	45.97	9.598	
4,400.00	4,196.85	4,366.83	4,198.15	26.07	22.66	-118.16	-93.52	1,073.40	453.32	407.29	46.04	9.847	
4,500.00	4,294.04	4,462.73	4,294.04	26.47	22.75	-120.75	-93.58	1,074.04	465.02	419.05	45.97	10.115	
4,600.00	4,392.00	4,560.68	4,392.00	26.82	22.83	-122.98	-93.58	1,074.04	475.79	429.92	45.87	10.372	
4,700.00	4,490.60	4,659.28	4,490.60	27.12	22.92	-124.77	-93.58	1,074.04	485.17	439.38	45.79	10.595	
4,800.00	4,589.71	4,758.40	4,589.71	27.37	23.01	-126.15	-93.58	1,074.04	492.88	447.14	45.74	10.775	
4,900.00	4,689.23	4,857.92	4,689.23	27.57	23.10	-127.15	-93.58	1,074.04	498.71	452.98	45.74	10.903	
5,000.00	4,789.03	4,957.72	4,789.03	27.72	23.20	-127.78	-93.58	1,074.04	502.53	456.74	45.79	10.975	

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 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8K1CS - BONANZA 1023-8K1CS - PLAN #1 5-7-10 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		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	
5,100.00	4,888.99	5,057.67	4,888.99	27.83	23.29	-128.05	-93.58	1,074.04	504.24	458.35	45.89	10.988	
5,129.56	4,918.55	5,087.23	4,918.55	27.85	23.32	-11.48	-93.58	1,074.04	504.33	458.40	45.93	10.980	
5,200.00	4,988.99	5,157.67	4,988.99	27.90	23.39	-11.48	-93.58	1,074.04	504.33	458.26	46.07	10.948	
5,300.00	5,088.99	5,257.67	5,088.99	27.98	23.49	-11.48	-93.58	1,074.04	504.33	458.07	46.26	10.901	
5,400.00	5,188.99	5,357.67	5,188.99	28.06	23.59	-11.48	-93.58	1,074.04	504.33	457.87	46.46	10.854	
5,500.00	5,288.99	5,457.67	5,288.99	28.15	23.70	-11.48	-93.58	1,074.04	504.33	457.66	46.67	10.807	
5,600.00	5,388.99	5,557.67	5,388.99	28.23	23.80	-11.48	-93.58	1,074.04	504.33	457.46	46.87	10.759	
5,700.00	5,488.99	5,657.67	5,488.99	28.32	23.91	-11.48	-93.58	1,074.04	504.33	457.25	47.09	10.711	
5,800.00	5,588.99	5,757.67	5,588.99	28.40	24.02	-11.48	-93.58	1,074.04	504.33	457.03	47.30	10.663	
5,900.00	5,688.99	5,857.67	5,688.99	28.49	24.13	-11.48	-93.58	1,074.04	504.33	456.81	47.52	10.614	
6,000.00	5,788.99	5,957.67	5,788.99	28.58	24.24	-11.48	-93.58	1,074.04	504.33	456.59	47.74	10.565	
6,100.00	5,888.99	6,057.67	5,888.99	28.68	24.35	-11.48	-93.58	1,074.04	504.33	456.37	47.96	10.516	
6,200.00	5,988.99	6,157.67	5,988.99	28.77	24.47	-11.48	-93.58	1,074.04	504.33	456.14	48.19	10.466	
6,300.00	6,088.99	6,257.67	6,088.99	28.86	24.58	-11.48	-93.58	1,074.04	504.33	455.91	48.42	10.416	
6,400.00	6,188.99	6,357.67	6,188.99	28.96	24.70	-11.48	-93.58	1,074.04	504.33	455.68	48.65	10.366	
6,500.00	6,288.99	6,457.67	6,288.99	29.06	24.82	-11.48	-93.58	1,074.04	504.33	455.44	48.89	10.316	
6,600.00	6,388.99	6,557.67	6,388.99	29.16	24.94	-11.48	-93.58	1,074.04	504.33	455.21	49.13	10.266	
6,700.00	6,488.99	6,657.67	6,488.99	29.26	25.06	-11.48	-93.58	1,074.04	504.33	454.96	49.37	10.216	
6,800.00	6,588.99	6,757.67	6,588.99	29.36	25.19	-11.48	-93.58	1,074.04	504.33	454.72	49.61	10.165	
6,900.00	6,688.99	6,857.67	6,688.99	29.46	25.31	-11.48	-93.58	1,074.04	504.33	454.47	49.86	10.115	
7,000.00	6,788.99	6,957.67	6,788.99	29.57	25.44	-11.48	-93.58	1,074.04	504.33	454.22	50.11	10.064	
7,100.00	6,888.99	7,057.67	6,888.99	29.67	25.56	-11.48	-93.58	1,074.04	504.33	453.97	50.36	10.014	
7,200.00	6,988.99	7,157.67	6,988.99	29.78	25.69	-11.48	-93.58	1,074.04	504.33	453.71	50.62	9.963	
7,300.00	7,088.99	7,257.67	7,088.99	29.89	25.82	-11.48	-93.58	1,074.04	504.33	453.45	50.88	9.912	
7,400.00	7,188.99	7,357.67	7,188.99	30.00	25.95	-11.48	-93.58	1,074.04	504.33	453.19	51.14	9.862	
7,500.00	7,288.99	7,457.67	7,288.99	30.11	26.09	-11.48	-93.58	1,074.04	504.33	452.93	51.40	9.811	
7,600.00	7,388.99	7,557.67	7,388.99	30.22	26.22	-11.48	-93.58	1,074.04	504.33	452.66	51.67	9.761	
7,700.00	7,488.99	7,657.67	7,488.99	30.34	26.36	-11.48	-93.58	1,074.04	504.33	452.39	51.94	9.710	
7,800.00	7,588.99	7,757.67	7,588.99	30.45	26.49	-11.48	-93.58	1,074.04	504.33	452.12	52.21	9.660	
7,900.00	7,688.99	7,857.67	7,688.99	30.57	26.63	-11.48	-93.58	1,074.04	504.33	451.85	52.48	9.609	
8,000.00	7,788.99	7,957.67	7,788.99	30.68	26.77	-11.48	-93.58	1,074.04	504.33	451.57	52.76	9.559	
8,100.00	7,888.99	8,057.67	7,888.99	30.80	26.91	-11.48	-93.58	1,074.04	504.33	451.29	53.04	9.509	
8,200.00	7,988.99	8,157.67	7,988.99	30.92	27.05	-11.48	-93.58	1,074.04	504.33	451.01	53.32	9.458	
8,300.00	8,088.99	8,257.67	8,088.99	31.04	27.19	-11.48	-93.58	1,074.04	504.33	450.73	53.60	9.408	
8,400.00	8,188.99	8,357.67	8,188.99	31.17	27.34	-11.48	-93.58	1,074.04	504.33	450.44	53.89	9.359	
8,446.01	8,235.00	8,403.69	8,235.00	31.22	27.40	-11.48	-93.58	1,074.04	504.33	450.31	54.02	9.336	



Weatherford International Ltd.

Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	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		
0.00	0.00	0.00	0.00	0.00	0.00	-142.08	-35.26	-27.47	46.83					
100.00	100.00	86.12	86.12	0.10	0.11	-142.22	-35.24	-27.31	44.58	44.37	0.21	211.268		
200.00	200.00	186.17	186.17	0.32	0.36	-142.56	-35.12	-26.90	44.24	43.56	0.68	65.029		
300.00	300.00	286.13	286.13	0.55	0.62	-142.88	-34.99	-26.49	43.89	42.72	1.17	37.620		
397.36	397.34	383.66	383.66	0.75	0.88	102.23	-34.84	-25.95	43.76	42.14	1.62	26.953 CC		
400.00	399.98	386.30	386.30	0.75	0.88	102.33	-34.83	-25.93	43.76	42.13	1.64	26.749 ES		
500.00	499.84	486.17	486.16	0.96	1.14	108.38	-34.52	-25.13	44.39	42.28	2.11	21.060		
600.00	599.45	585.68	585.67	1.20	1.41	117.88	-34.39	-24.44	47.21	44.61	2.60	18.131		
700.00	698.70	684.93	684.92	1.48	1.67	129.11	-34.32	-24.01	53.59	50.48	3.11	17.214 SF		
800.00	797.47	783.74	783.73	1.80	1.93	139.63	-34.34	-23.58	64.24	60.62	3.62	17.753		
900.00	895.62	881.94	881.93	2.18	2.17	148.23	-34.45	-23.17	79.41	75.31	4.11	19.344		
1,000.00	993.06	979.30	979.29	2.61	2.38	154.72	-34.70	-22.86	99.01	94.46	4.55	21.763		
1,100.00	1,089.64	1,075.98	1,075.96	3.11	2.56	159.52	-35.07	-22.66	122.78	117.80	4.97	24.699		
1,200.00	1,185.27	1,171.96	1,171.94	3.68	2.75	163.08	-35.54	-22.41	150.28	144.88	5.40	27.838		
1,300.00	1,279.82	1,267.15	1,267.13	4.32	2.95	165.68	-36.36	-22.02	181.21	175.38	5.83	31.059		
1,400.00	1,373.78	1,362.17	1,362.14	5.00	3.15	167.68	-37.53	-21.43	213.75	207.43	6.32	33.800		
1,500.00	1,467.75	1,457.02	1,456.98	5.69	3.37	169.10	-38.92	-20.59	246.15	239.32	6.83	36.037		
1,600.00	1,561.72	1,553.09	1,553.03	6.39	3.60	170.22	-40.36	-19.53	278.46	271.10	7.36	37.856		
1,700.00	1,655.69	1,648.95	1,648.86	7.10	3.84	171.10	-42.01	-17.78	310.12	302.23	7.89	39.292		
1,800.00	1,749.66	1,743.05	1,742.93	7.81	4.07	171.75	-43.90	-16.21	341.89	333.46	8.43	40.556		
1,900.00	1,843.63	1,837.07	1,836.91	8.53	4.30	172.24	-45.98	-14.91	373.87	364.91	8.97	41.702		
2,000.00	1,937.60	1,931.58	1,931.39	9.24	4.53	172.64	-48.18	-13.80	406.03	396.53	9.50	42.732		
2,100.00	2,031.57	2,026.71	2,026.49	9.96	4.76	173.00	-50.32	-12.52	438.08	428.04	10.04	43.619		
2,200.00	2,125.54	2,120.97	2,120.72	10.68	4.99	173.29	-52.49	-11.35	470.22	459.64	10.59	44.414		
2,300.00	2,219.51	2,216.67	2,216.39	11.40	5.23	173.57	-54.59	-10.00	502.26	491.12	11.14	45.095		
2,400.00	2,313.48	2,310.46	2,310.14	12.12	5.47	173.81	-56.64	-8.66	534.28	522.59	11.69	45.717		
2,500.00	2,407.45	2,400.95	2,400.60	12.84	5.68	173.98	-58.83	-7.92	566.78	554.56	12.22	46.390		
2,600.00	2,501.42	2,497.58	2,497.20	13.57	5.91	174.12	-61.29	-7.36	599.45	586.69	12.76	46.987		
2,700.00	2,595.39	2,591.35	2,590.94	14.29	6.13	174.24	-63.65	-6.69	632.01	618.71	13.30	47.525		
2,800.00	2,689.35	2,684.25	2,683.81	15.02	6.35	174.35	-66.03	-6.22	664.74	650.91	13.83	48.053		
2,900.00	2,783.32	2,778.17	2,777.70	15.74	6.56	174.43	-68.47	-5.94	697.65	683.28	14.37	48.553		
3,000.00	2,877.29	2,874.36	2,873.85	16.46	6.79	174.51	-71.09	-5.63	730.49	715.58	14.91	48.988		
3,100.00	2,971.26	2,970.49	2,969.93	17.19	7.02	174.56	-73.97	-5.15	763.08	747.62	15.46	49.354		
3,200.00	3,065.23	3,065.02	3,064.42	17.92	7.25	174.60	-76.84	-4.56	795.56	779.55	16.01	49.693		
3,300.00	3,159.20	3,158.90	3,158.25	18.64	7.47	174.63	-79.90	-4.14	828.10	811.54	16.56	50.014		
3,400.00	3,253.17	3,253.25	3,252.54	19.37	7.70	174.63	-83.16	-3.85	860.71	843.60	17.11	50.313		
3,500.00	3,347.14	3,348.01	3,347.24	20.09	7.93	174.64	-86.46	-3.56	893.30	875.64	17.66	50.590		
3,600.00	3,441.11	3,443.82	3,442.99	20.82	8.16	174.65	-89.78	-3.20	925.84	907.63	18.21	50.829		
3,700.00	3,535.08	3,541.03	3,540.14	21.55	8.40	174.66	-93.10	-2.57	958.16	939.39	18.78	51.022		
3,800.00	3,629.05	3,636.80	3,635.85	22.27	8.64	174.68	-96.31	-1.69	990.26	970.92	19.34	51.198		
3,900.00	3,723.02	3,730.08	3,729.08	23.00	8.88	174.70	-99.47	-0.90	1,022.41	1,002.51	19.90	51.374		
4,000.00	3,816.99	3,823.70	3,822.64	23.73	9.12	174.72	-102.67	-0.26	1,054.69	1,034.23	20.46	51.544		
4,100.00	3,910.95	3,918.59	3,917.48	24.45	9.36	174.73	-105.92	0.37	1,087.00	1,065.97	21.03	51.700		
4,129.56	3,938.73	3,946.64	3,945.51	24.67	9.43	174.73	-106.88	0.56	1,096.54	1,075.35	21.19	51.744		
4,200.00	4,005.21	4,013.81	4,012.64	25.11	9.60	174.78	-109.18	1.03	1,118.46	1,096.81	21.65	51.670		
4,300.00	4,100.53	4,110.27	4,109.04	25.62	9.85	174.82	-112.47	1.73	1,146.71	1,124.47	22.25	51.544		
4,400.00	4,196.85	4,207.73	4,206.44	26.07	10.10	174.84	-115.78	2.50	1,171.57	1,148.75	22.82	51.347		
4,500.00	4,294.04	4,306.54	4,305.19	26.47	10.35	174.85	-119.12	3.38	1,192.97	1,169.61	23.36	51.076		
4,600.00	4,392.00	4,405.78	4,404.37	26.82	10.61	174.84	-122.43	4.36	1,210.87	1,187.01	23.86	50.748		
4,700.00	4,490.60	4,501.07	4,499.61	27.12	10.86	174.81	-125.52	5.22	1,225.46	1,201.14	24.31	50.402		
4,800.00	4,589.71	4,600.00	4,598.49	27.37	11.11	174.76	-128.58	5.85	1,236.90	1,212.17	24.74	50.003		
4,900.00	4,689.23	4,697.32	4,695.76	27.57	11.36	174.70	-131.50	6.39	1,245.00	1,219.89	25.11	49.575		

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 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	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		
5,000.00	4,789.03	4,798.31	4,796.70	27.72	11.62	174.62	-134.51	7.05	1,249.55	1,224.09	25.46	49.081		
5,100.00	4,888.99	4,900.63	4,898.98	27.83	11.89	174.52	-137.52	7.89	1,250.49	1,224.72	25.77	48.525		
5,129.56	4,918.55	4,930.88	4,929.21	27.85	11.97	-68.92	-138.39	8.19	1,250.07	1,224.21	25.86	48.347		
5,200.00	4,988.99	5,000.00	4,998.30	27.90	12.15	-69.00	-140.36	8.94	1,248.63	1,222.49	26.15	47.755		
5,300.00	5,088.99	5,099.40	5,097.66	27.98	12.41	-69.10	-143.21	9.93	1,246.68	1,220.12	26.56	46.940		
5,400.00	5,188.99	5,196.02	5,194.23	28.06	12.66	-69.21	-146.08	10.58	1,244.99	1,218.03	26.97	46.169		
5,500.00	5,288.99	5,299.06	5,297.21	28.15	12.93	-69.34	-149.27	11.19	1,243.34	1,215.95	27.39	45.390		
5,600.00	5,388.99	5,400.00	5,398.10	28.23	13.19	-69.47	-152.57	12.02	1,241.42	1,213.60	27.81	44.631		
5,700.00	5,488.99	5,499.65	5,497.69	28.32	13.45	-69.61	-155.95	12.82	1,239.48	1,211.24	28.24	43.897		
5,800.00	5,588.99	5,597.08	5,595.06	28.40	13.71	-69.74	-159.30	13.37	1,237.75	1,209.10	28.65	43.197		
5,900.00	5,688.99	5,697.48	5,695.41	28.49	13.97	-69.87	-162.54	13.93	1,236.12	1,207.04	29.08	42.505		
6,000.00	5,788.99	5,797.99	5,795.88	28.58	14.23	-69.98	-165.27	14.72	1,234.45	1,204.94	29.51	41.832		
6,100.00	5,888.99	5,894.28	5,892.14	28.68	14.48	-70.06	-167.46	15.50	1,232.90	1,202.97	29.93	41.194		
6,200.00	5,988.99	5,990.49	5,988.33	28.77	14.74	-70.13	-169.28	16.11	1,231.67	1,201.32	30.35	40.584		
6,300.00	6,088.99	6,090.76	6,088.58	28.86	15.00	-70.20	-170.94	16.66	1,230.59	1,199.81	30.78	39.980		
6,400.00	6,188.99	6,191.47	6,189.27	28.96	15.27	-70.26	-172.59	17.28	1,229.46	1,198.24	31.21	39.388		
6,500.00	6,288.99	6,293.21	6,291.00	29.06	15.54	-70.32	-174.18	18.04	1,228.23	1,196.57	31.65	38.804		
6,600.00	6,388.99	6,395.04	6,392.82	29.16	15.81	-70.37	-175.66	19.00	1,226.85	1,194.76	32.09	38.231		
6,700.00	6,488.99	6,496.17	6,493.93	29.26	16.07	-70.42	-177.32	20.02	1,225.35	1,192.82	32.53	37.670		
6,800.00	6,588.99	6,597.24	6,594.98	29.36	16.34	-70.51	-179.52	20.94	1,223.76	1,190.79	32.97	37.117		
6,822.74	6,611.73	6,600.00	6,597.73	29.38	16.35	-70.51	-179.59	20.97	1,223.55	1,190.53	33.02	37.059		
6,900.00	6,688.99	6,600.00	6,597.73	29.46	16.35	-70.51	-179.59	20.97	1,225.99	1,192.84	33.15	36.986		
7,000.00	6,788.99	6,600.00	6,597.73	29.57	16.35	-70.51	-179.59	20.97	1,236.32	1,203.00	33.32	37.106		
7,100.00	6,888.99	6,600.00	6,597.73	29.67	16.35	-70.51	-179.59	20.97	1,254.57	1,221.08	33.49	37.460		
7,200.00	6,988.99	6,600.00	6,597.73	29.78	16.35	-70.51	-179.59	20.97	1,280.39	1,246.72	33.66	38.033		
7,300.00	7,088.99	6,600.00	6,597.73	29.89	16.35	-70.51	-179.59	20.97	1,313.33	1,279.49	33.84	38.811		
7,400.00	7,188.99	6,600.00	6,597.73	30.00	16.35	-70.51	-179.59	20.97	1,352.89	1,318.87	34.02	39.773		
7,500.00	7,288.99	6,600.00	6,597.73	30.11	16.35	-70.51	-179.59	20.97	1,398.48	1,364.29	34.19	40.900		
7,600.00	7,388.99	6,600.00	6,597.73	30.22	16.35	-70.51	-179.59	20.97	1,449.55	1,415.18	34.37	42.174		
7,700.00	7,488.99	6,600.00	6,597.73	30.34	16.35	-70.51	-179.59	20.97	1,505.54	1,470.99	34.55	43.576		
7,800.00	7,588.99	6,600.00	6,597.73	30.45	16.35	-70.51	-179.59	20.97	1,565.92	1,531.19	34.73	45.089		
7,900.00	7,688.99	6,600.00	6,597.73	30.57	16.35	-70.51	-179.59	20.97	1,630.20	1,595.29	34.91	46.696		
8,000.00	7,788.99	6,600.00	6,597.73	30.68	16.35	-70.51	-179.59	20.97	1,697.94	1,662.85	35.09	48.384		
8,100.00	7,888.99	6,600.00	6,597.73	30.80	16.35	-70.51	-179.59	20.97	1,768.75	1,733.47	35.28	50.141		
8,200.00	7,988.99	6,600.00	6,597.73	30.92	16.35	-70.51	-179.59	20.97	1,842.26	1,806.80	35.46	51.954		
8,300.00	8,088.99	6,600.00	6,597.73	31.04	16.35	-70.51	-179.59	20.97	1,918.17	1,882.52	35.64	53.814		
8,400.00	8,188.99	6,600.00	6,597.73	31.17	16.35	-70.51	-179.59	20.97	1,996.20	1,960.37	35.83	55.714		
8,446.01	8,235.00	6,600.00	6,597.73	31.22	16.35	-70.51	-179.59	20.97	2,032.75	1,996.84	35.92	56.599		



Weatherford International Ltd.

Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8L3DS - BONANZA 1023-8L3DS - PLAN #1 5-7-10 RHS												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	-144.91	-8.38	-5.89	10.24				
100.00	100.00	100.00	100.00	0.10	0.10	-144.91	-8.38	-5.89	10.24	10.04	0.19	52.965	
200.00	200.00	200.00	200.00	0.32	0.32	-144.91	-8.38	-5.89	10.24	9.60	0.64	15.927	
300.00	300.00	300.00	300.00	0.55	0.55	-144.91	-8.38	-5.89	10.24	9.15	1.09	9.372 CC, ES	
400.00	399.98	399.61	399.59	0.75	0.76	111.27	-8.97	-7.51	12.23	10.72	1.51	8.094 SF	
500.00	499.84	498.94	498.81	0.96	0.96	130.89	-10.60	-11.98	19.72	17.78	1.94	10.156	
600.00	599.45	598.11	597.83	1.20	1.19	143.26	-12.37	-16.86	31.39	29.01	2.38	13.173	
700.00	698.70	697.61	697.20	1.48	1.40	149.21	-15.54	-20.87	45.93	43.10	2.82	16.270	
800.00	797.47	796.24	795.69	1.80	1.62	152.54	-19.90	-23.63	62.58	59.30	3.28	19.074	
900.00	895.62	894.16	893.48	2.18	1.85	155.44	-24.23	-26.37	82.47	78.71	3.76	21.951	
1,000.00	993.06	991.34	990.53	2.61	2.07	157.88	-28.53	-29.09	105.65	101.41	4.24	24.903	
1,100.00	1,089.64	1,087.66	1,086.72	3.11	2.30	159.91	-32.79	-31.79	132.14	127.41	4.73	27.908	
1,200.00	1,185.27	1,183.00	1,181.93	3.68	2.53	161.60	-37.01	-34.45	161.93	156.70	5.23	30.945	
1,300.00	1,279.82	1,277.25	1,276.05	4.32	2.75	163.02	-41.18	-37.09	195.01	189.27	5.74	33.999	
1,400.00	1,373.78	1,370.91	1,369.58	5.00	2.98	164.30	-45.32	-39.71	229.76	223.50	6.26	36.689	
1,500.00	1,467.75	1,464.57	1,463.11	5.69	3.21	165.24	-49.46	-42.33	264.59	257.79	6.79	38.940	
1,600.00	1,561.72	1,558.23	1,556.65	6.39	3.44	165.97	-53.60	-44.96	299.46	292.13	7.33	40.841	
1,700.00	1,655.69	1,651.90	1,650.18	7.10	3.66	166.54	-57.74	-47.58	334.37	326.50	7.87	42.466	
1,800.00	1,749.66	1,745.56	1,743.71	7.81	3.89	167.00	-61.89	-50.20	369.31	360.89	8.42	43.869	
1,900.00	1,843.63	1,839.22	1,837.25	8.53	4.12	167.39	-66.03	-52.82	404.26	395.29	8.97	45.090	
2,000.00	1,937.60	1,932.88	1,930.78	9.24	4.35	167.71	-70.17	-55.44	439.22	429.71	9.51	46.162	
2,100.00	2,031.57	2,024.03	2,021.77	9.96	4.58	167.92	-74.60	-58.24	474.34	464.27	10.07	47.111	
2,200.00	2,125.54	2,112.87	2,110.28	10.68	4.82	167.81	-81.04	-62.32	510.24	499.60	10.65	47.929	
2,300.00	2,219.51	2,200.00	2,196.82	11.40	5.07	167.43	-89.62	-67.74	547.01	535.75	11.25	48.612	
2,400.00	2,313.48	2,288.12	2,283.98	12.12	5.35	166.81	-100.54	-74.66	584.67	572.77	11.90	49.127	
2,500.00	2,407.45	2,374.23	2,368.74	12.84	5.65	166.03	-113.40	-82.80	623.28	610.70	12.58	49.537	
2,600.00	2,501.42	2,459.16	2,451.83	13.57	5.98	165.12	-128.19	-92.15	662.92	649.62	13.30	49.842	
2,700.00	2,595.39	2,542.77	2,533.11	14.29	6.32	164.11	-144.77	-102.65	703.65	689.60	14.06	50.062	
2,800.00	2,689.35	2,624.96	2,612.41	15.02	6.69	163.04	-163.02	-114.20	745.55	730.70	14.85	50.213	
2,900.00	2,783.32	2,705.64	2,689.61	15.74	7.09	161.91	-182.80	-126.71	788.67	772.99	15.67	50.314	
3,000.00	2,877.29	2,784.71	2,764.62	16.46	7.51	160.76	-203.96	-140.10	833.07	816.53	16.54	50.363	
3,100.00	2,971.26	2,867.37	2,842.37	17.19	7.98	159.53	-227.65	-155.09	878.69	861.22	17.47	50.305	
3,200.00	3,065.23	2,954.50	2,924.25	17.92	8.50	158.34	-252.84	-171.03	924.75	906.32	18.43	50.165	
3,300.00	3,159.20	3,041.64	3,006.13	18.64	9.03	157.26	-278.02	-186.96	971.11	951.71	19.41	50.039	
3,400.00	3,253.17	3,128.77	3,088.00	19.37	9.56	156.28	-303.21	-202.90	1,017.73	997.34	20.39	49.924	
3,500.00	3,347.14	3,215.90	3,169.88	20.09	10.10	155.38	-328.39	-218.84	1,064.56	1,043.20	21.37	49.822	
3,600.00	3,441.11	3,303.03	3,251.76	20.82	10.65	154.55	-353.58	-234.77	1,111.59	1,089.24	22.35	49.732	
3,700.00	3,535.08	3,390.17	3,333.63	21.55	11.21	153.79	-378.76	-250.71	1,158.79	1,135.45	23.34	49.651	
3,800.00	3,629.05	3,477.30	3,415.51	22.27	11.77	153.09	-403.94	-266.65	1,206.14	1,181.81	24.33	49.580	
3,900.00	3,723.02	3,564.43	3,497.39	23.00	12.33	152.44	-429.13	-282.58	1,253.62	1,228.30	25.32	49.519	
4,000.00	3,816.99	3,671.02	3,597.92	23.73	12.87	151.76	-459.04	-301.51	1,300.76	1,274.46	26.30	49.455	
4,100.00	3,910.95	3,789.00	3,710.61	24.45	13.38	151.24	-488.55	-320.18	1,346.15	1,318.90	27.25	49.404	
4,129.56	3,938.73	3,824.51	3,744.80	24.67	13.53	151.14	-496.66	-325.31	1,359.20	1,331.68	27.52	49.393	
4,200.00	4,005.21	3,910.66	3,828.21	25.11	13.87	151.24	-514.84	-336.82	1,388.88	1,360.71	28.17	49.311	
4,300.00	4,100.53	4,036.78	3,951.41	25.62	14.32	151.44	-537.62	-351.23	1,426.80	1,397.82	28.98	49.236	
4,400.00	4,196.85	4,166.93	4,079.66	26.07	14.73	151.69	-556.30	-363.05	1,459.58	1,429.86	29.71	49.121	
4,500.00	4,294.04	4,300.48	4,212.16	26.47	15.09	152.00	-570.33	-371.93	1,487.04	1,456.68	30.36	48.983	
4,600.00	4,392.00	4,436.71	4,347.97	26.82	15.36	152.36	-579.25	-377.57	1,509.03	1,478.14	30.89	48.853	
4,700.00	4,490.60	4,574.81	4,485.99	27.12	15.58	152.79	-582.71	-379.77	1,525.46	1,494.14	31.32	48.709	
4,800.00	4,589.71	4,678.53	4,589.71	27.37	15.70	153.13	-582.75	-379.79	1,537.26	1,505.64	31.63	48.606	
4,900.00	4,689.23	4,778.05	4,689.23	27.57	15.82	153.37	-582.75	-379.79	1,545.97	1,514.08	31.90	48.470	
5,000.00	4,789.03	4,877.85	4,789.03	27.72	15.94	153.53	-582.75	-379.79	1,551.58	1,519.45	32.13	48.289	

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 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 5-7-10 RHS	Offset TVD Reference:	Offset Datum

Offset Design Bonanza 1023-8L PAD - BONANZA 1023-8L3DS - BONANZA 1023-8L3DS - PLAN #1 5-7-10 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
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	Warning
5,100.00	4,888.99	4,977.81	4,888.99	27.83	16.07	153.59	-582.75	-379.79	1,554.06	1,521.73	32.33	48.063	
5,129.56	4,918.55	5,007.36	4,918.55	27.85	16.11	-89.81	-582.75	-379.79	1,554.20	1,521.81	32.39	47.983	
5,200.00	4,988.99	5,077.81	4,988.99	27.90	16.20	-89.81	-582.75	-379.79	1,554.20	1,521.63	32.57	47.719	
5,300.00	5,088.99	5,177.81	5,088.99	27.98	16.32	-89.81	-582.75	-379.79	1,554.20	1,521.38	32.82	47.351	
5,400.00	5,188.99	5,277.81	5,188.99	28.06	16.45	-89.81	-582.75	-379.79	1,554.20	1,521.12	33.08	46.982	
5,500.00	5,288.99	5,377.81	5,288.99	28.15	16.59	-89.81	-582.75	-379.79	1,554.20	1,520.86	33.34	46.614	
5,600.00	5,388.99	5,477.81	5,388.99	28.23	16.72	-89.81	-582.75	-379.79	1,554.20	1,520.59	33.61	46.246	
5,700.00	5,488.99	5,577.81	5,488.99	28.32	16.86	-89.81	-582.75	-379.79	1,554.20	1,520.32	33.88	45.878	
5,800.00	5,588.99	5,677.81	5,588.99	28.40	17.00	-89.81	-582.75	-379.79	1,554.20	1,520.05	34.15	45.511	
5,900.00	5,688.99	5,777.81	5,688.99	28.49	17.14	-89.81	-582.75	-379.79	1,554.20	1,519.77	34.43	45.145	
6,000.00	5,788.99	5,877.81	5,788.99	28.58	17.28	-89.81	-582.75	-379.79	1,554.20	1,519.49	34.71	44.781	
6,100.00	5,888.99	5,977.81	5,888.99	28.68	17.42	-89.81	-582.75	-379.79	1,554.20	1,519.21	34.99	44.418	
6,200.00	5,988.99	6,077.81	5,988.99	28.77	17.57	-89.81	-582.75	-379.79	1,554.20	1,518.92	35.28	44.056	
6,300.00	6,088.99	6,177.81	6,088.99	28.86	17.72	-89.81	-582.75	-379.79	1,554.20	1,518.63	35.57	43.696	
6,400.00	6,188.99	6,277.81	6,188.99	28.96	17.87	-89.81	-582.75	-379.79	1,554.20	1,518.34	35.86	43.338	
6,500.00	6,288.99	6,377.81	6,288.99	29.06	18.02	-89.81	-582.75	-379.79	1,554.20	1,518.04	36.16	42.982	
6,600.00	6,388.99	6,477.81	6,388.99	29.16	18.17	-89.81	-582.75	-379.79	1,554.20	1,517.74	36.46	42.628	
6,700.00	6,488.99	6,577.81	6,488.99	29.26	18.32	-89.81	-582.75	-379.79	1,554.20	1,517.44	36.76	42.276	
6,800.00	6,588.99	6,677.81	6,588.99	29.36	18.48	-89.81	-582.75	-379.79	1,554.20	1,517.13	37.07	41.927	
6,900.00	6,688.99	6,777.81	6,688.99	29.46	18.63	-89.81	-582.75	-379.79	1,554.20	1,516.82	37.38	41.581	
7,000.00	6,788.99	6,877.81	6,788.99	29.57	18.79	-89.81	-582.75	-379.79	1,554.20	1,516.51	37.69	41.237	
7,100.00	6,888.99	6,977.81	6,888.99	29.67	18.95	-89.81	-582.75	-379.79	1,554.20	1,516.20	38.00	40.895	
7,200.00	6,988.99	7,077.81	6,988.99	29.78	19.11	-89.81	-582.75	-379.79	1,554.20	1,515.88	38.32	40.557	
7,300.00	7,088.99	7,177.81	7,088.99	29.89	19.27	-89.81	-582.75	-379.79	1,554.20	1,515.56	38.64	40.221	
7,400.00	7,188.99	7,277.81	7,188.99	30.00	19.43	-89.81	-582.75	-379.79	1,554.20	1,515.24	38.96	39.888	
7,500.00	7,288.99	7,377.81	7,288.99	30.11	19.60	-89.81	-582.75	-379.79	1,554.20	1,514.91	39.29	39.559	
7,600.00	7,388.99	7,477.81	7,388.99	30.22	19.76	-89.81	-582.75	-379.79	1,554.20	1,514.59	39.62	39.232	
7,700.00	7,488.99	7,577.81	7,488.99	30.34	19.93	-89.81	-582.75	-379.79	1,554.20	1,514.26	39.95	38.908	
7,800.00	7,588.99	7,677.81	7,588.99	30.45	20.10	-89.81	-582.75	-379.79	1,554.20	1,513.92	40.28	38.588	
7,900.00	7,688.99	7,777.81	7,688.99	30.57	20.27	-89.81	-582.75	-379.79	1,554.20	1,513.59	40.61	38.270	
8,000.00	7,788.99	7,877.81	7,788.99	30.68	20.44	-89.81	-582.75	-379.79	1,554.20	1,513.25	40.95	37.956	
8,100.00	7,888.99	7,977.81	7,888.99	30.80	20.61	-89.81	-582.75	-379.79	1,554.20	1,512.91	41.29	37.645	
8,200.00	7,988.99	8,077.81	7,988.99	30.92	20.78	-89.81	-582.75	-379.79	1,554.20	1,512.57	41.63	37.337	
8,300.00	8,088.99	8,177.81	8,088.99	31.04	20.95	-89.81	-582.75	-379.79	1,554.20	1,512.23	41.97	37.032	
8,400.00	8,188.99	8,277.81	8,188.99	31.17	21.12	-89.81	-582.75	-379.79	1,554.20	1,511.89	42.31	36.730	
8,446.01	8,235.00	8,323.82	8,235.00	31.22	21.21	-89.81	-582.75	-379.79	1,554.20	1,511.73	42.47	36.593	

Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-8K4CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5313.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-8L PAD	MD Reference:	WELL @ 5313.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	BONANZA 1023-8K4CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BONANZA 1023-8K4CS	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 1023-8K4CS

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°



Reference Depths are relative to WELL @ 5313.00ft (Original Well ElevCoordinates are relative to: BONANZA 1023-8K4CS
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°



Bonanza 1023-8K4CS

Pad: Bonanza 1023-8L

Surface: 2,225' FSL 951' FWL (NW/4SW/4)

BHL: 1,630' FSL 2,125' FWL (NE/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	1,081'	
Birds Nest	1,346'	Water
Mahogany	1,703'	Water
Wasatch	4,037'	Gas
Mesaverde	6,134'	Gas
MVU2	7,027'	Gas
MVL1	7,579'	Gas
TVD	8,235'	
TD	8,446'	

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 8,235' TVD, approximately equals 5,045 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,233 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.

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	July 1, 2010		
WELL NAME	Bonanza 1023-8K4CS	TD	8,235'	TVD	8,446' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				FINISHED ELEVATION	5,299'
SURFACE LOCATION	NW/4 SW/4	2,225' FSL	951' FWL	Sec 8	T 10S R 23E
	Latitude:	39.962329	Longitude:	-109.356719	NAD 83
BTM HOLE LOCATION	NE/4 SW/4	1,630' FSL	2,125' FWL	Sec 8	T 10S R 23E
	Latitude:	39.960715	Longitude:	-109.352528	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				

Bonanza 1023-8K4CS Drilling Program Directional Well-updated 060910.xls



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 1,850	28.00	IJ-55	LTC	0.99	2.17	6.65
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 8,446	11.60	I-80	BTC	2.34	1.24	3.25

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

D.F. = 2.91

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,233 psi

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

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,045 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
			NOTE: If well will circulate water to surface, option 2 will be utilized				
SURFACE	LEAD	1,350'	65/35 Poz + 6% Gel + 10 pps gilsonite	130	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
Option 2							
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	5,836'	Premium Lite II +0.25 pps	510	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,610'	50/50 Poz/G + 10% salt + 2% gel	550	20%	14.30	1.31
			+ 0.1% R-3				

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

John Huycke / Emile Goodwin

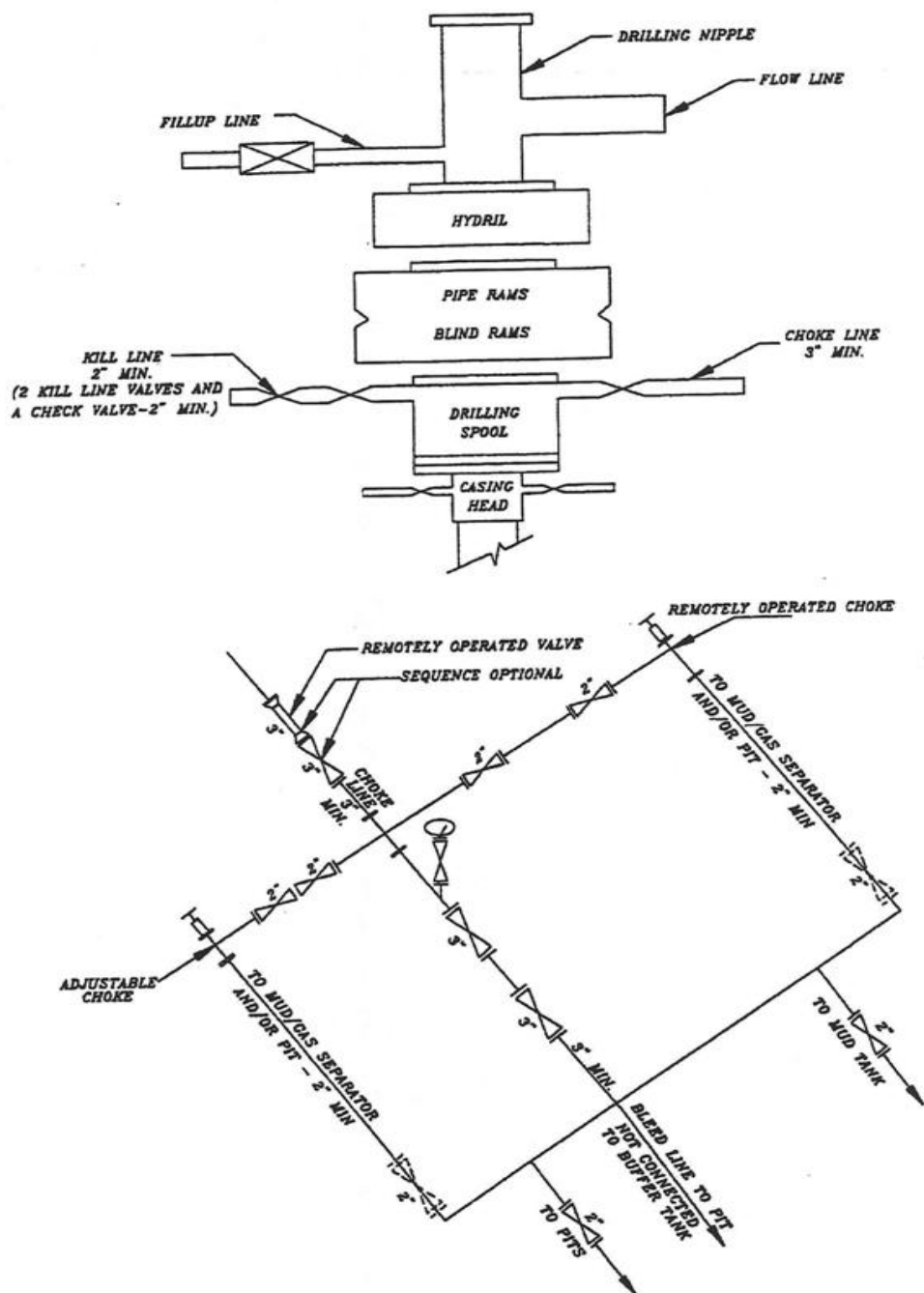
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

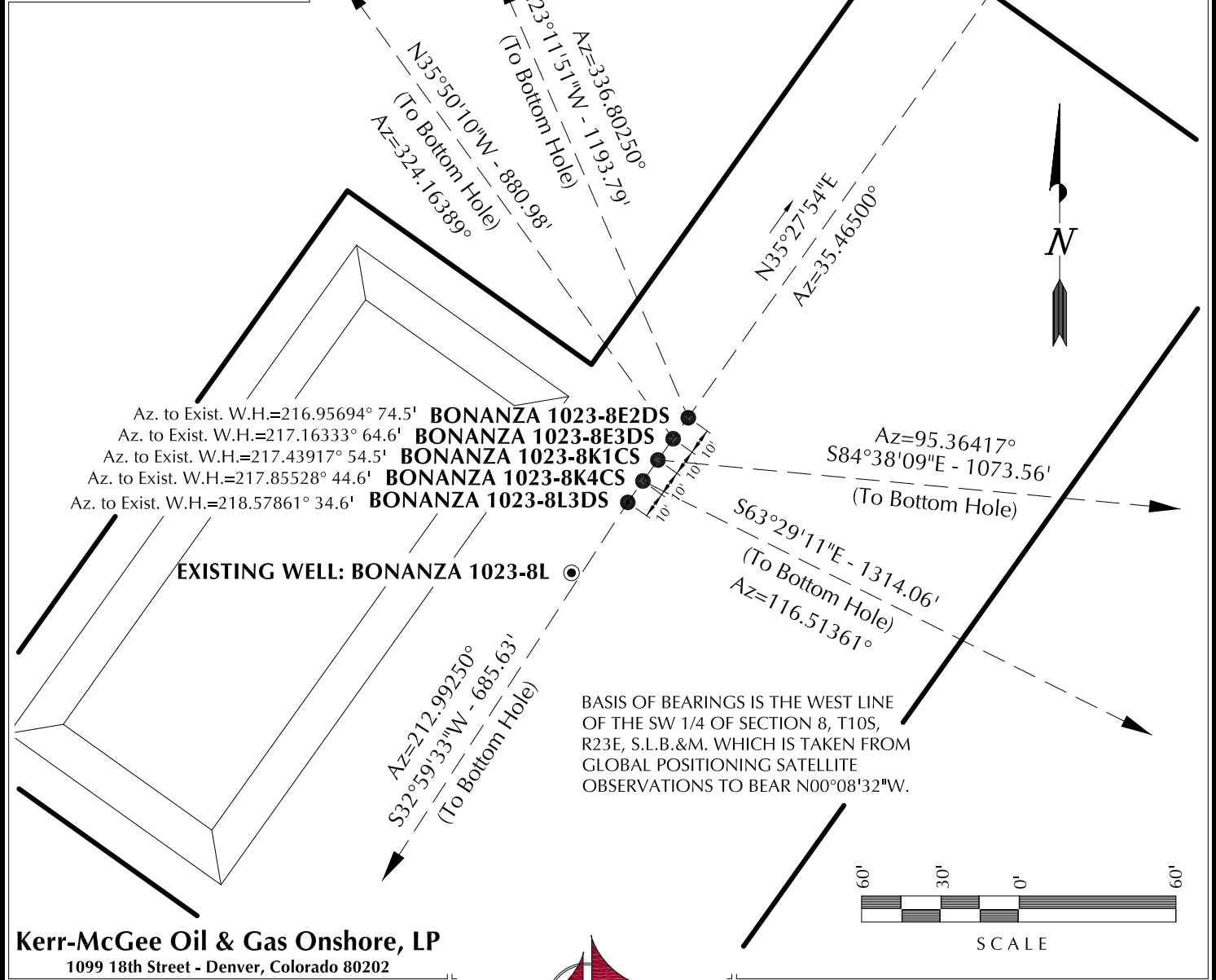
EXHIBIT A
Bonanza 1023-8K4CS



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

RELATIVE COORDINATES - From Surface Position to Bottom Hole											
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-8E2DS	1097.3'	-470.2'	BONANZA 1023-8E3DS	714.2'	-515.8'	BONANZA 1023-8K1CS	-100.4'	1068.9'	BONANZA 1023-8K4CS	-586.6'	1175.9'
BONANZA 1023-8L3DS	-575.1'	-373.3'									



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1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-8L

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



CONSULTING, LLC
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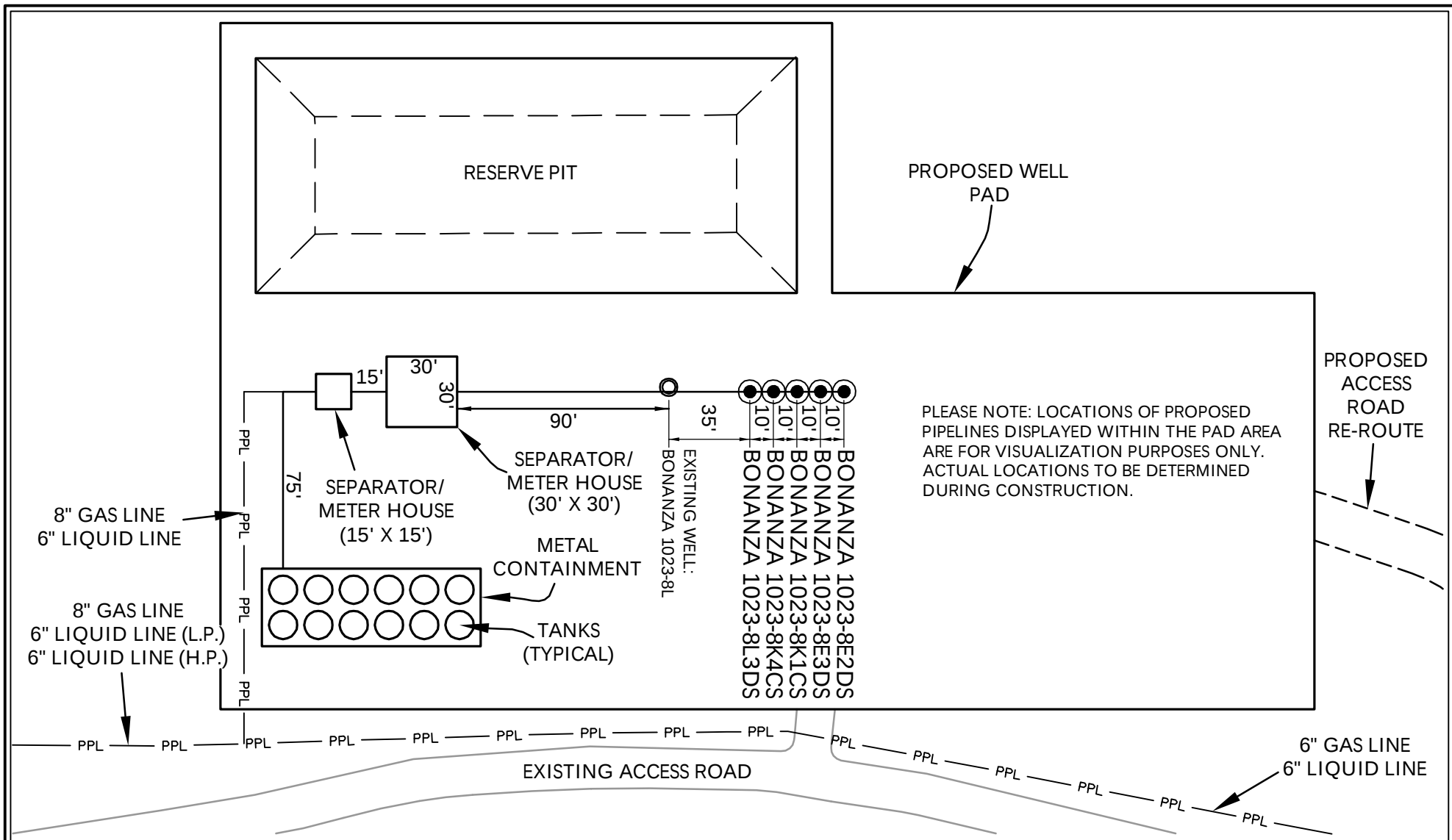
TIMBERLINE

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

(435) 789-1365

DATE SURVEYED: 02-18-10	SURVEYED BY: M.S.B.	6 6 OF 19
DATE DRAWN: 02-19-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 06-02-10 E.M.S.	

'APIWellNo:43047511520000'
K:\ANADARKO\2010_02_BON_FOCUS_SEC_8-10231DWG\BONANZA 1023-8L\BONANZA 1023-8L\BONANZA 1023-8L\DWG\Change for AcroPlot Pro



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1099 18th Street - Denver, Colorado 80202

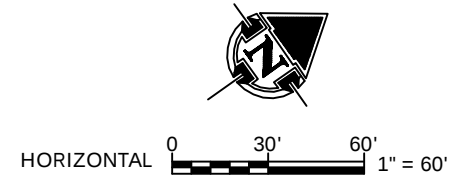
WELL PAD - BONANZA 1023-8L

WELL PAD - FACILITIES DIAGRAM
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS
& BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E,
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Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND	
	EXISTING WELL LOCATION
	PROPOSED WELL LOCATION
	PROPOSED PIPELINE
	EXISTING PIPELINE



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Scale: 1"=60' Date: 3/25/10
SEA 6/22/10
REVISED:

SHEET NO:
9
9 OF 19

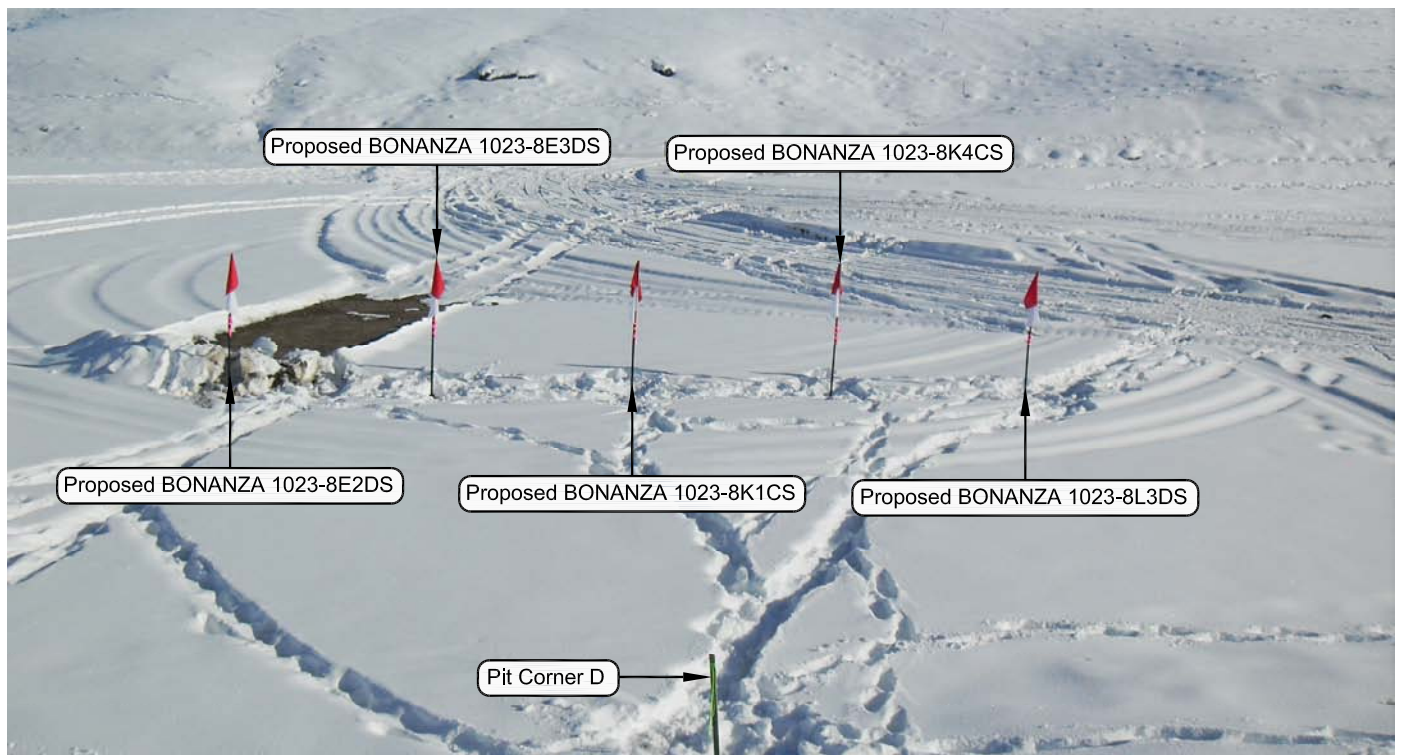


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY

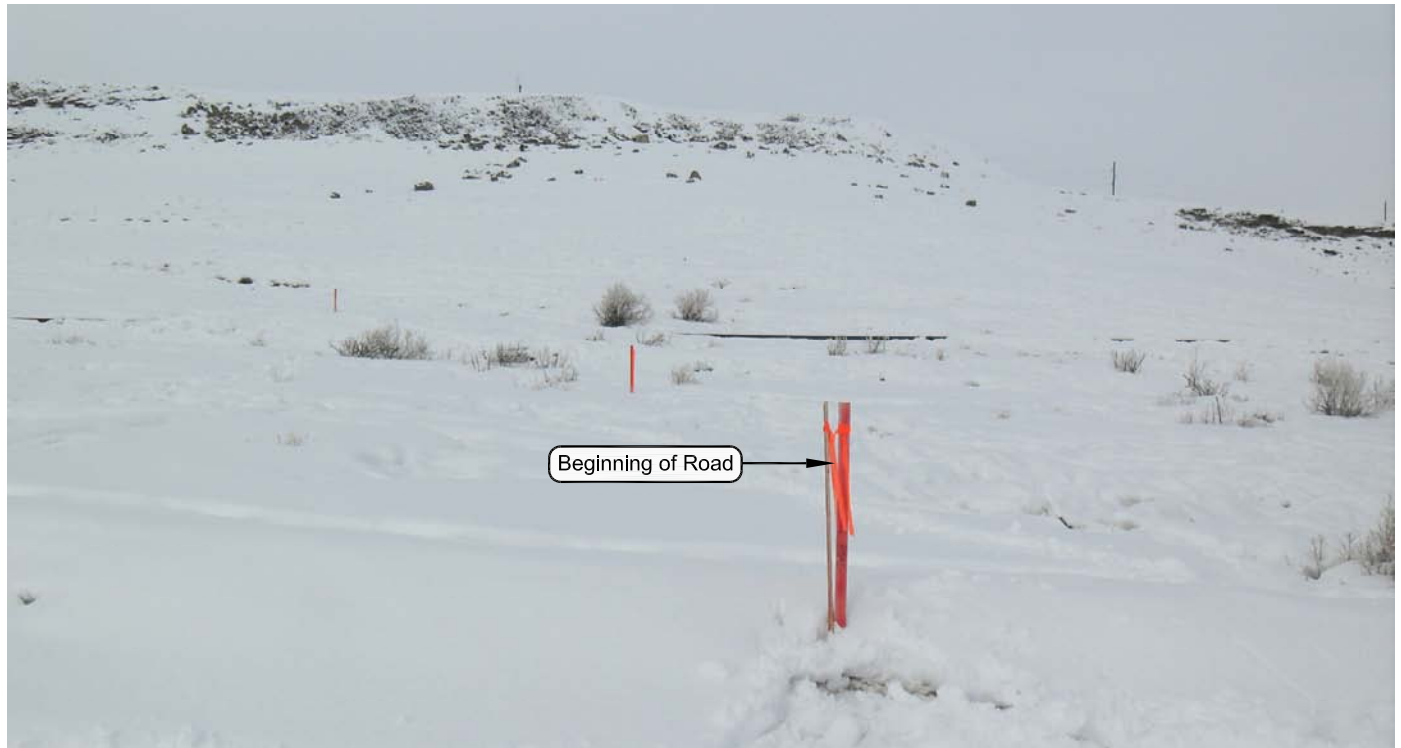


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

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

Well Pad - BONANZA 1023-8L

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



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Fax 307-674-0182

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209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN:
02-18-10

PHOTOS TAKEN BY: M.S.B.

SHEET NO:

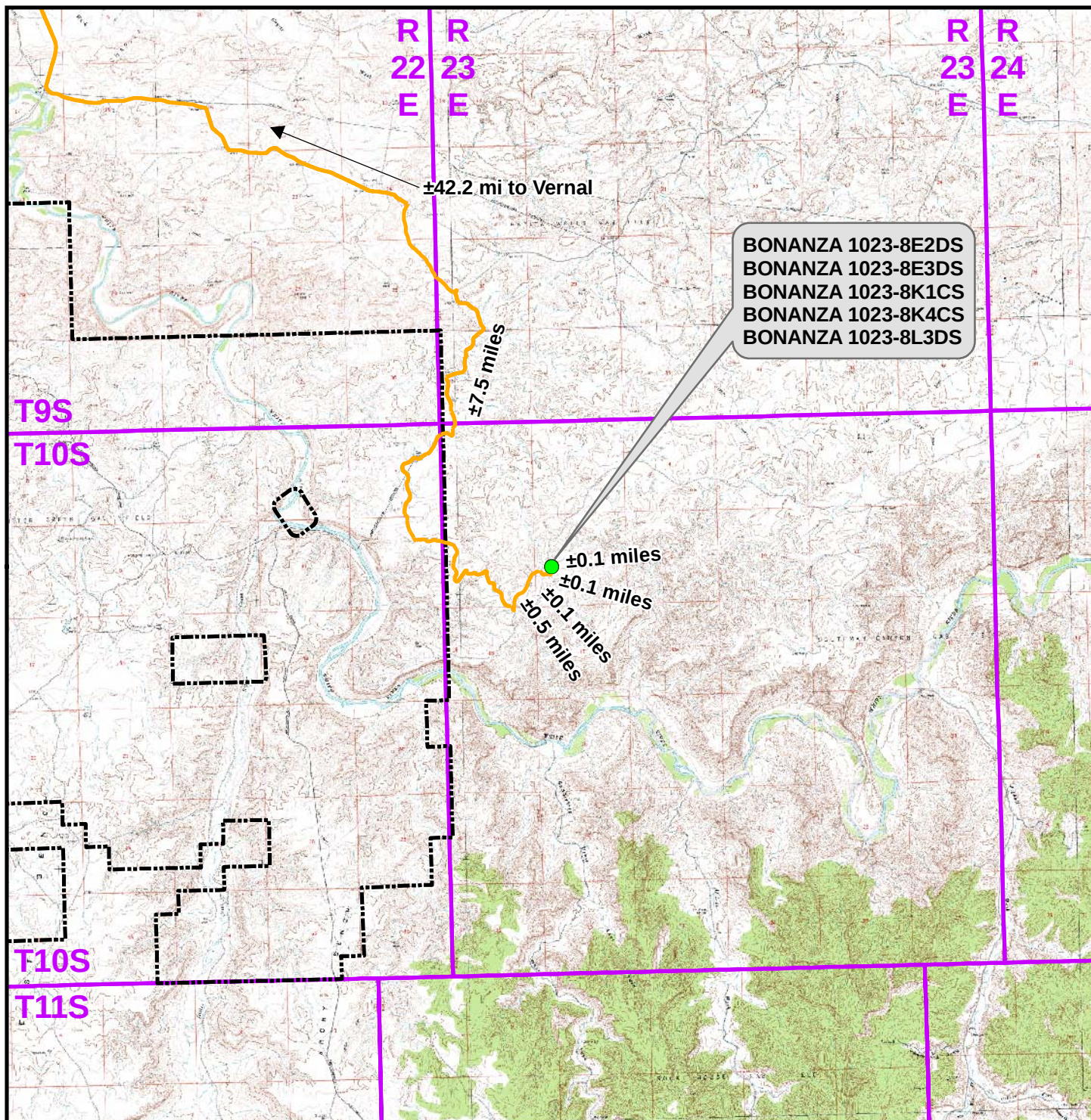
DATE DRAWN:
02-19-10

DRAWN BY: E.M.S.

10

Date Last Revised: 06-02-10 E.M.S.

10 OF 19



Legend

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

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

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

WELL PAD - BONANZA 1023-8L

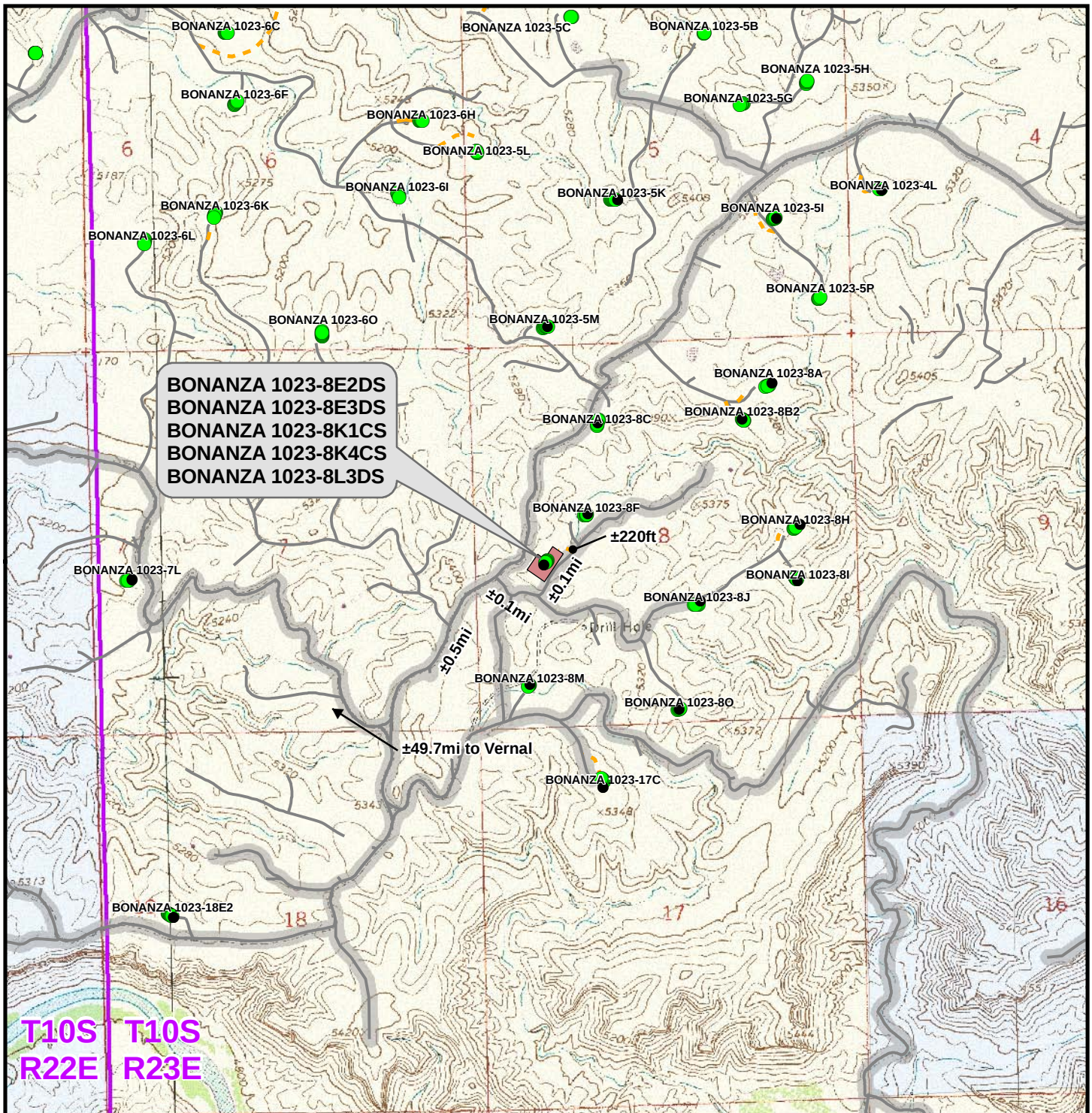
TOPO A
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1:100,000	NAD83 USP Central
Drawn: CPS	Date: 25 Mar 2010
Revised: CPS	Date: 22 June 2010

Sheet No:

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Legend

- | | | | | | |
|-------------------|-------------------|----------------------|---------------|-----------------------------|---------|
| ● Well - Proposed | ■ Well Pad | --- Road - Proposed | — County Road | ■ Bureau of Land Management | ■ State |
| ● Well - Existing | — Road - Existing | ■ Indian Reservation | ■ Private | | |

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

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1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-8L

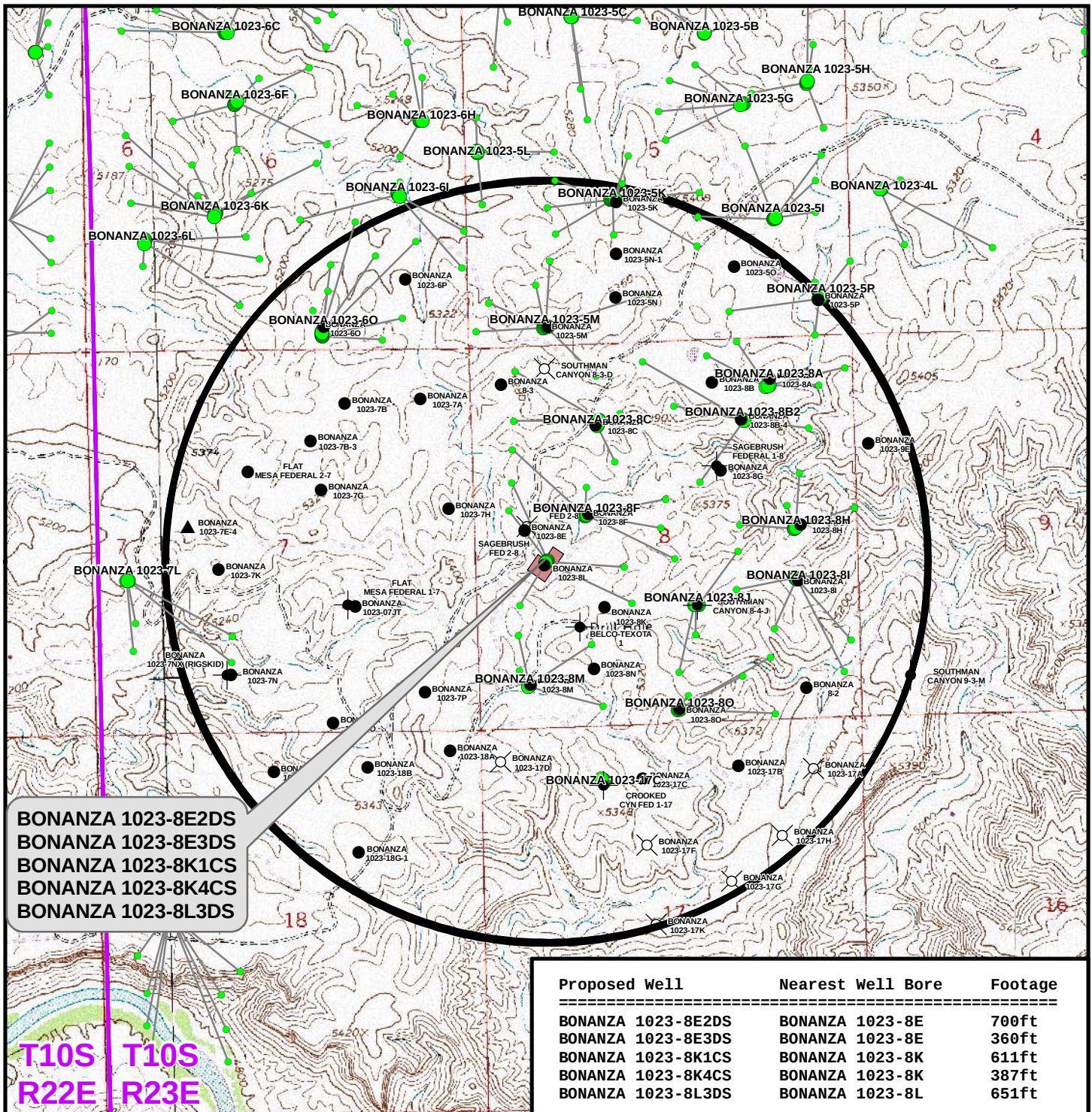
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BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



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

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

Legend

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

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WELL PAD - BONANZA 1023-8L

TOPO C
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
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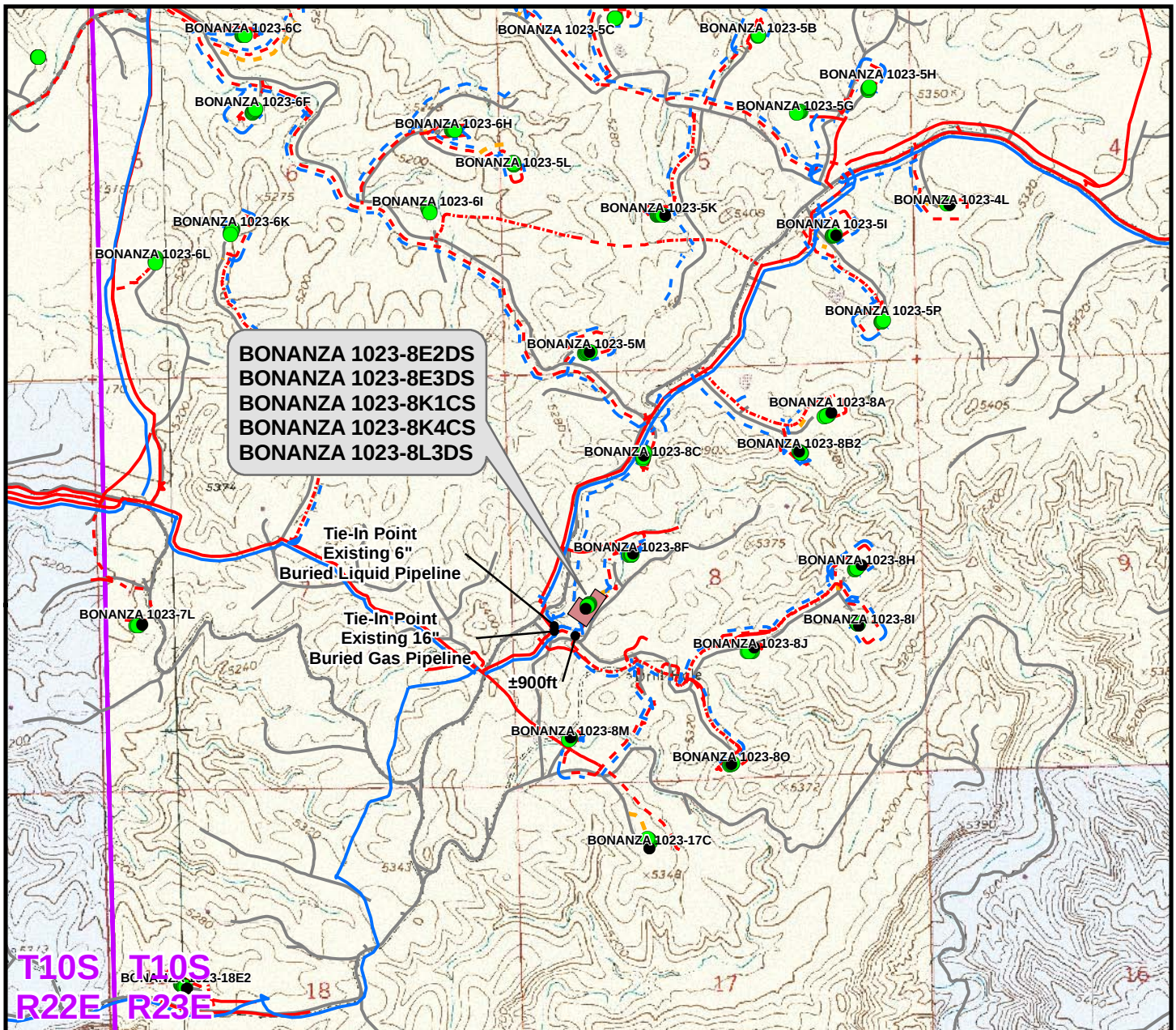
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Sheridan, WY 82801
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Fax (307) 674-0182



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

Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: CPS
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Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±180ft	Proposed 8" (First Meter House to Edge of Pad)	±180ft
Proposed 6" (Edge of Pad to Tie-In Point)	±720ft	Proposed 8" (Edge of Pad to Road Intersection)	±210ft
		Proposed 12" (Road Intersection to Tie-In Point)	±510ft
TOTAL PROPOSED LIQUID PIPELINE = ±900ft		TOTAL PROPOSED GAS PIPELINE = ±900ft	

Legend

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

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WELL PAD - BONANZA 1023-8L

TOPO D
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
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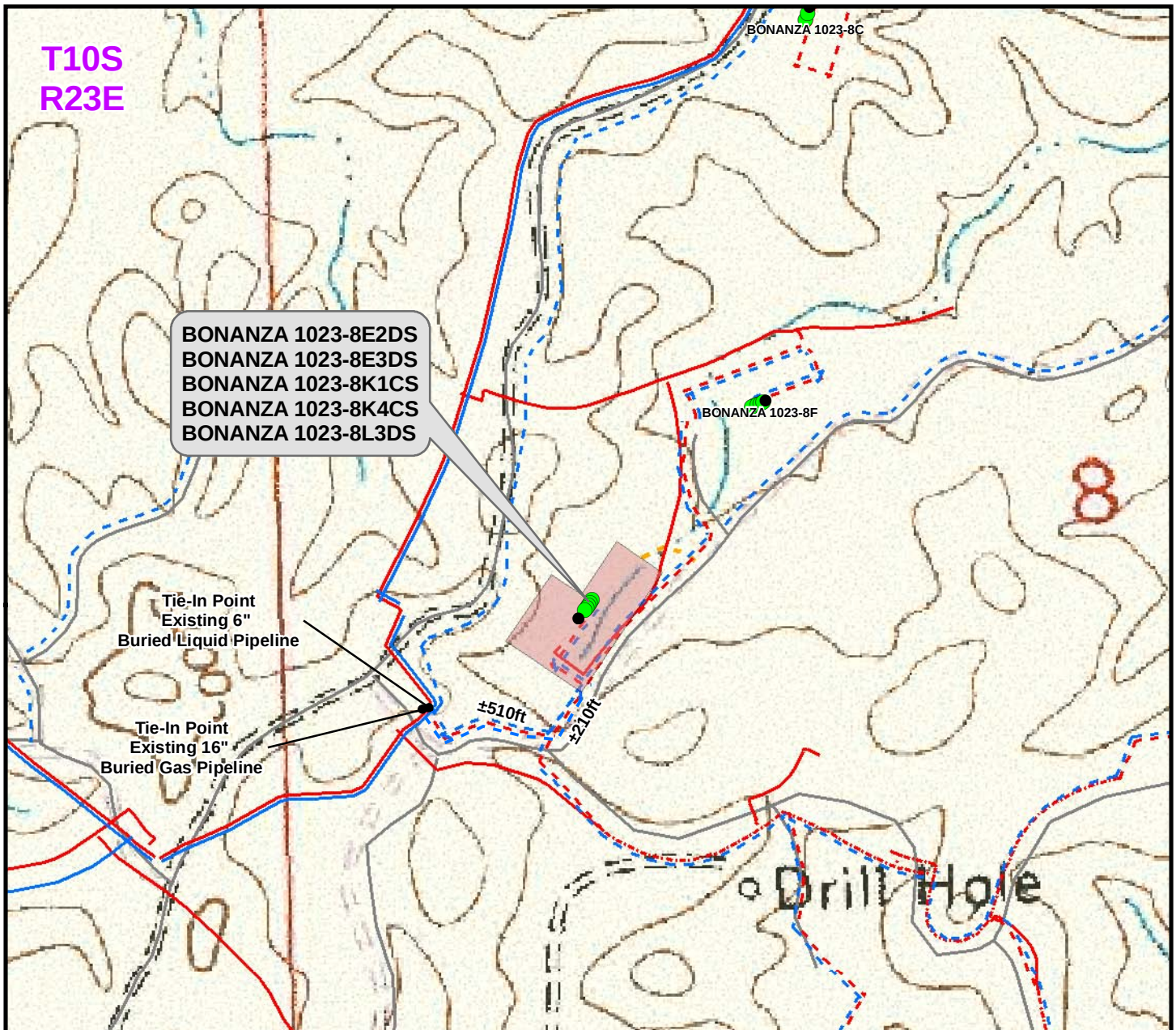
Scale: 1" = 2,000ft

NAD83 USP Central

Sheet No:
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Drawn: CPS
Revised: CPS

Date: 25 Mar 2010
Date: 22 June 2010



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±180ft	Proposed 8" (First Meter House to Edge of Pad)	±180ft
Proposed 6" (Edge of Pad to Tie-In Point)	±720ft	Proposed 8" (Edge of Pad to Road Intersection)	±210ft
		Proposed 12" (Road Intersection to Tie-In Point)	±510ft
TOTAL PROPOSED LIQUID PIPELINE = ±900ft		TOTAL PROPOSED GAS PIPELINE = ±900ft	

Legend

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

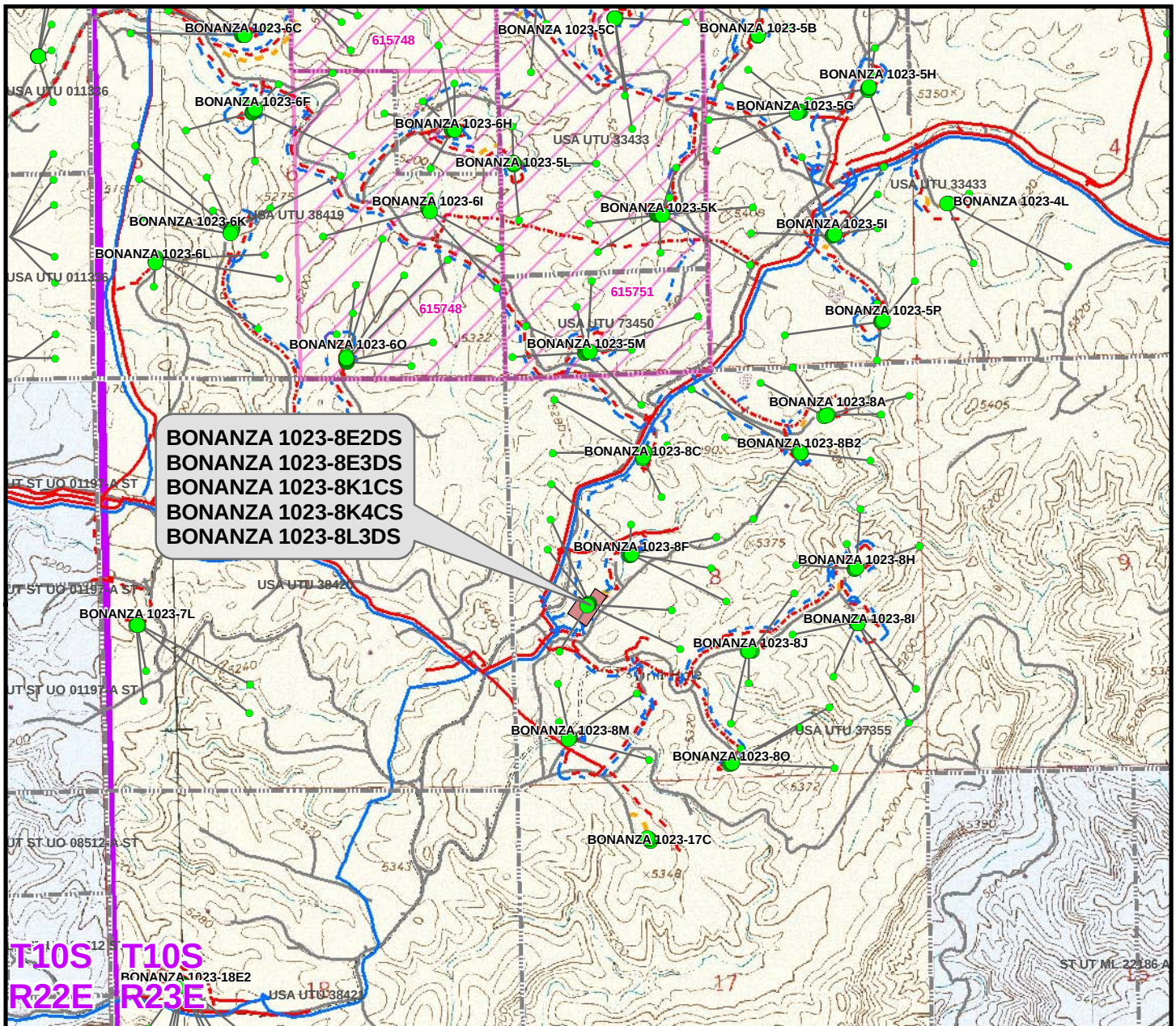
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WELL PAD - BONANZA 1023-8L

TOPO D (PAD & PIPELINE DETAIL)
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
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Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 25 Mar 2010	15 15 of 19
Revised: CPS	Date: 22 June 2010	



Distance to Nearest CA Boundary		Distance To Nearest Lease Boundary	
Proposed Well		Proposed Well	
BONANZA 1023-8E2DS	1,927ft	BONANZA 1023-8E2DS	500ft
BONANZA 1023-8E3DS	2,318ft	BONANZA 1023-8E3DS	448ft
BONANZA 1023-8K1CS	3,138ft	BONANZA 1023-8K1CS	2,025ft
BONANZA 1023-8K4CS	3,633ft	BONANZA 1023-8K4CS	2,125ft
BONANZA 1023-8L3DS	3,047ft	BONANZA 1023-8L3DS	570ft

Legend

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

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WELL PAD - BONANZA 1023-8L

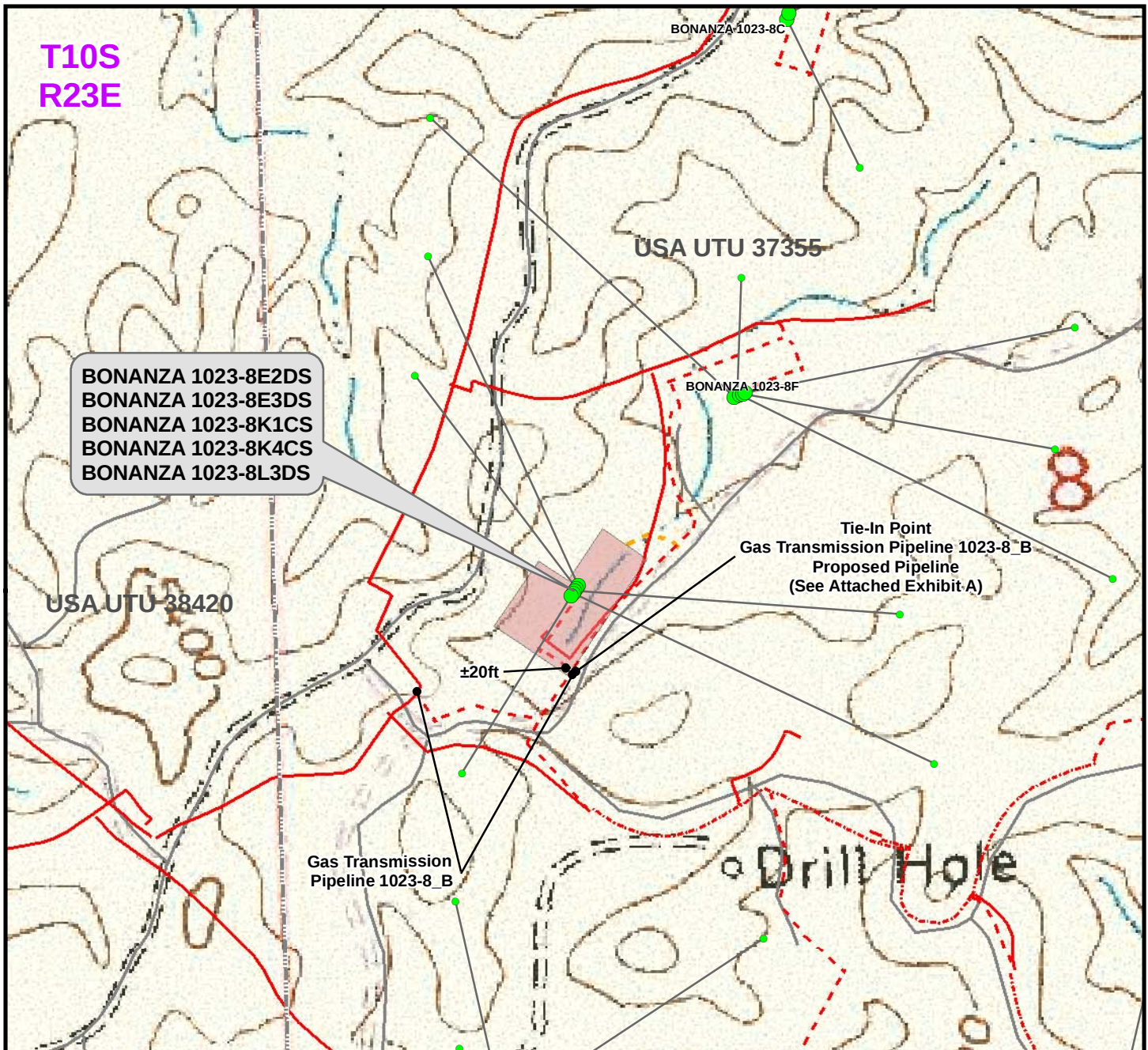
TOPO E
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
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BONANZA 1023-8L3DS
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S.L.B.&M., UTAH COUNTY, UTAH

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

Sheet No:
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Gas Pipeline	Length	CA Number
BONANZA 1023-8L	N/A	N/A
TOTAL: N/A		

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

Legend

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

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WELL PAD - BONANZA 1023-8L

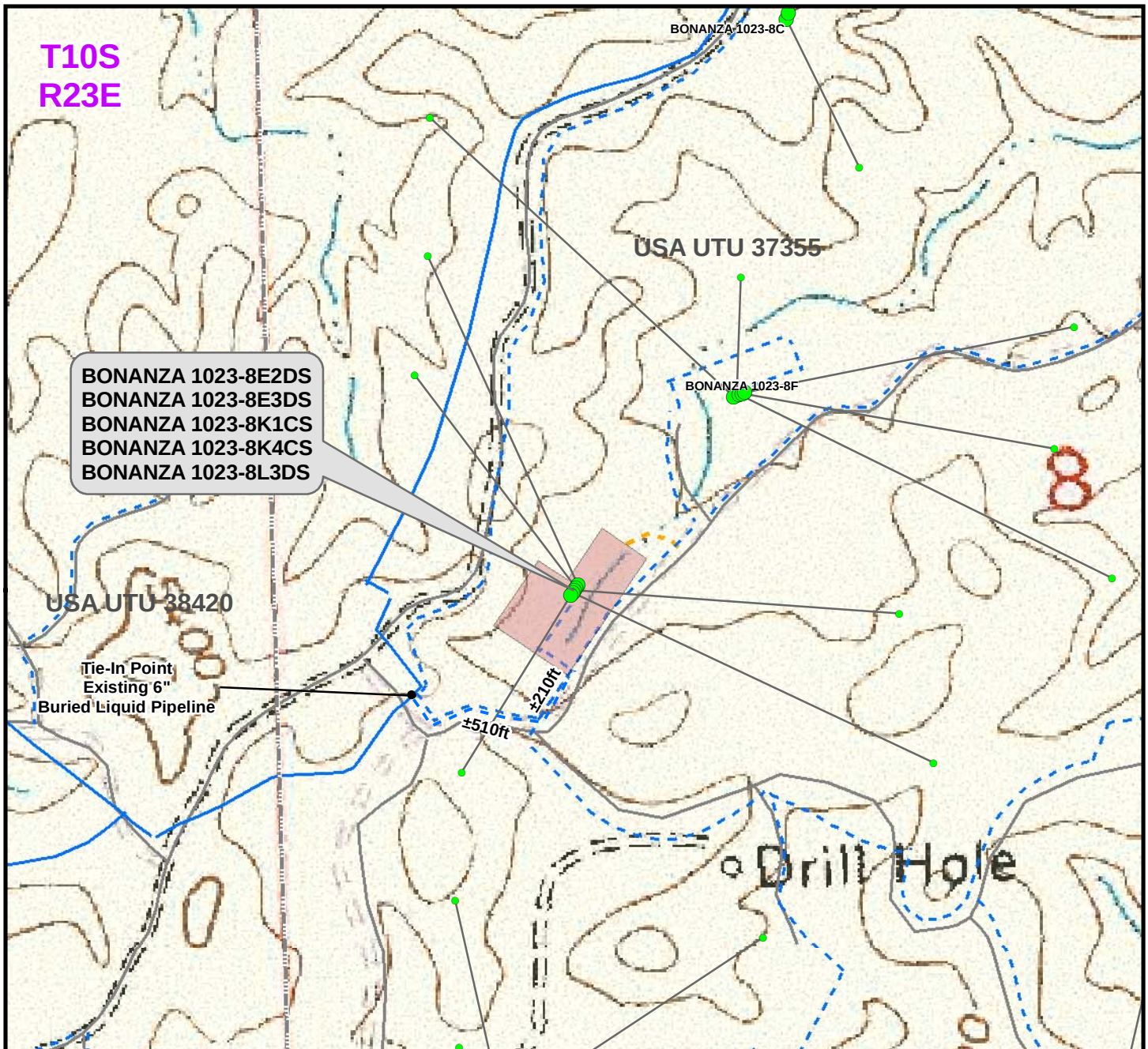
TOPO E (GAS PIPELINE & LEASE DETAIL)
BONANZA 1023-8E2DS, BONANZA 1023-8E3DS,
BONANZA 1023-8K1CS, BONANZA 1023-8K4CS &
BONANZA 1023-8L3DS
LOCATED IN SECTION 8, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central
Drawn: JFE	Date: 22 June 2010
Revised:	Date:

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

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

Legend

● Well - Proposed	 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
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WELL PAD - BONANZA 1023-8L

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



Scale: 1" = 500ft	NAD83 USP Central
Drawn: JFE	Date: 22 June 2010
Revised:	Date:

Sheet No:

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

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 20.2 MILES TO THE JUNCTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG THE GLEN BENCH ROAD 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 7.5 MILES TO THE INTERSECTION OF THE COUNTY B ROAD 3420. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE COUNTY B ROAD 3420 APPROXIMATELY 0.5 MILES TO A CLASS D COUNTY ROAD TO THE RIGHT. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION ALONG THE COUNTY D ROAD APPROXIMATELY 0.1 MILES TO A SECOND CLASS D COUNTY ROAD TO THE LEFT. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE SECOND CLASS D ROAD APPROXIMATELY 0.1 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW THE ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 220 FEET TO THE PROPOSED WELL PAD.

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

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

 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



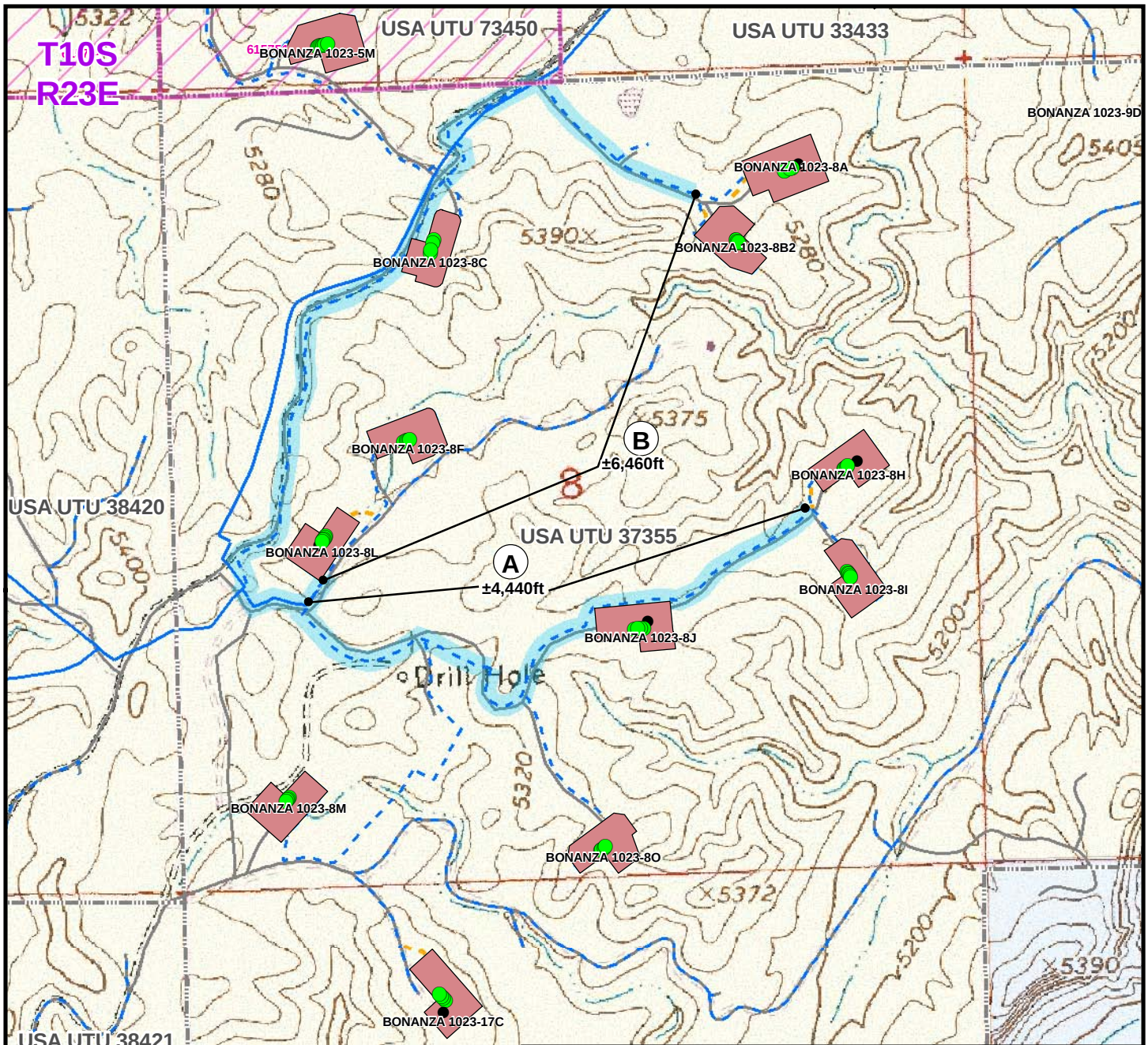
609

CONSULTING, LLC

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



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

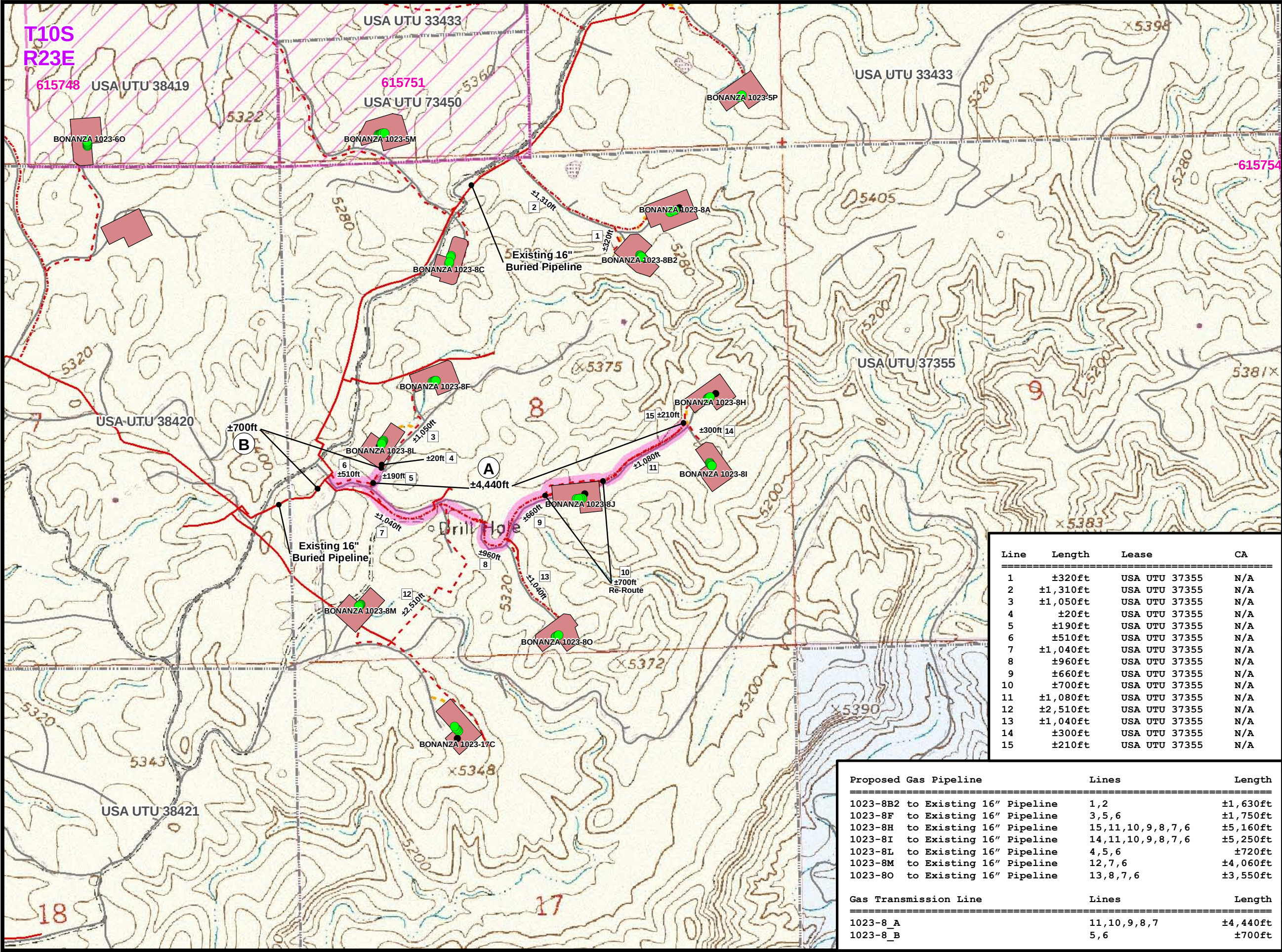
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

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

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



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



609 Consulting, LLC

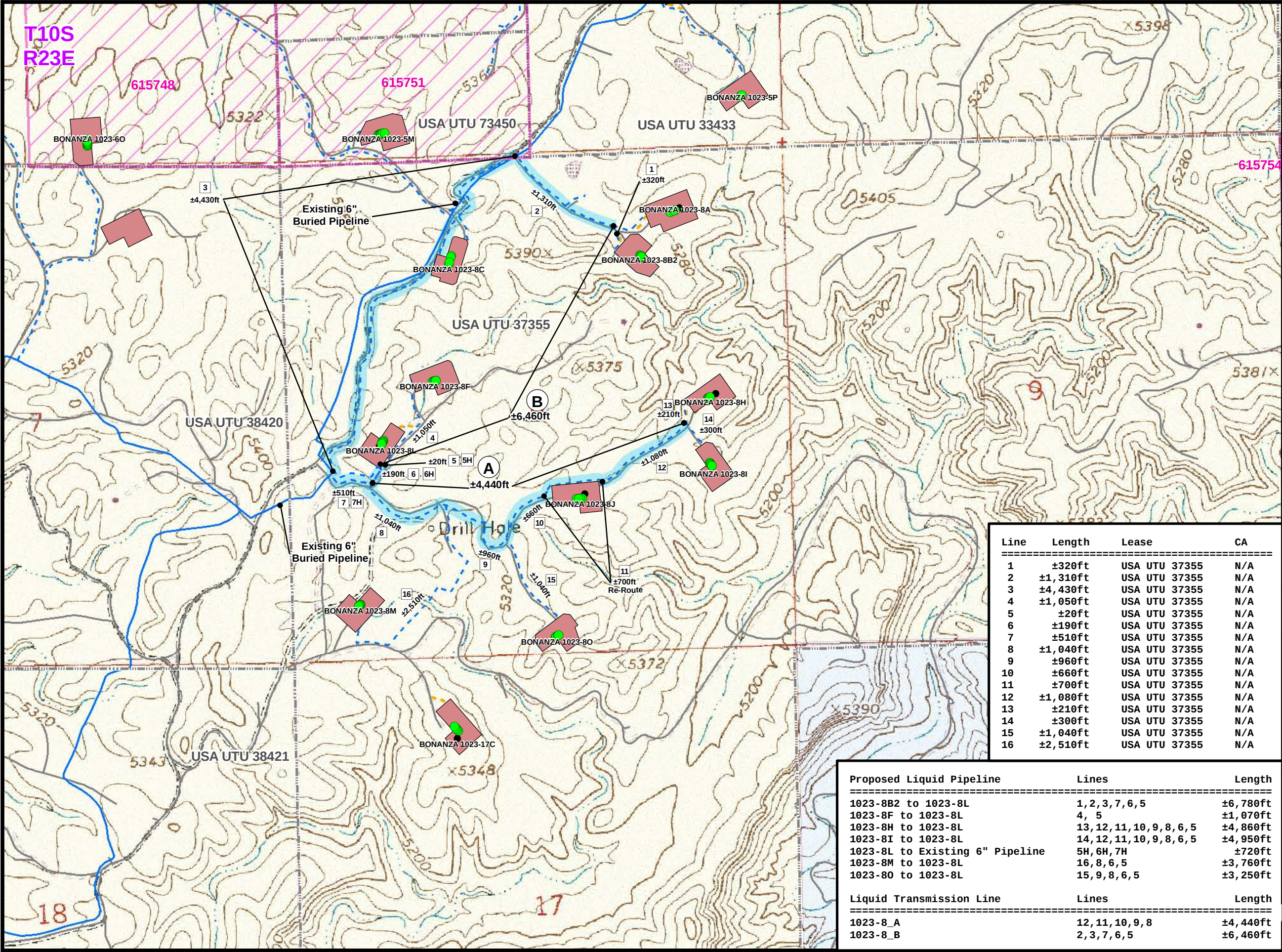
371 Coffeen Avenue
Sheridan, WY 82801
(307) 674-0609

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

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

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

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

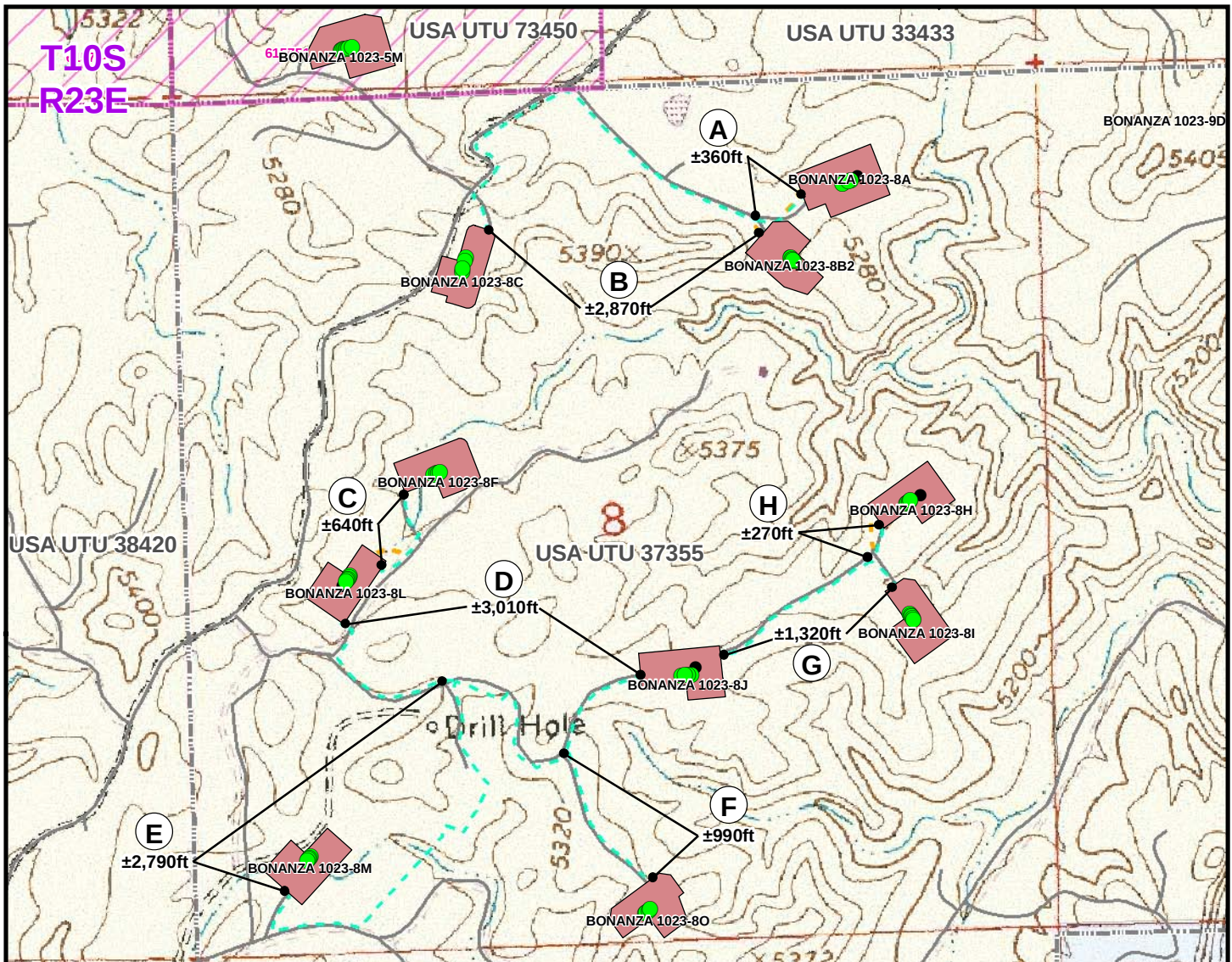
609 Consulting, LLC
371 Coffeen Avenue
Sheridan, WY 82801
(307) 674-0609

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

NAD83 USP-Cft	Scale: 1" = 1,000ft
Drawn by: JELO	Date: 25 June 2010
Revised:	Date:

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



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

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

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

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



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

Kerr-McGee Oil & Gas Onshore LP

Bonanza 1023-8E2DS

Surface: 2,249' FSL 968' FWL (NW/4SW/4)
BHL: 1,927' FNL 500' FWL (SW/4NW/4)

Bonanza 1023-8E3DS

Surface: 2,241' FSL 962' FWL (NW/4SW/4)
BHL: 2,318' FNL 448' FWL (SW/4NW/4)

Bonanza 1023-8K1CS

Surface: 2,233' FSL 956' FWL (NW/4SW/4)
BHL: 2,125' FSL 2,025' FWL (NE/4SW/4)

Bonanza 1023-8K4CS

Surface: 2,225' FSL 951' FWL (NW/4SW/4)
BHL: 1,630' FSL 2,125' FWL (NE/4SW/4)

Bonanza 1023-8L3DS

Surface: 2,216' FSL 945' FWL (NW/4SW/4)
BHL: 1,644' FSL 570' FWL (NW/4SW/4)

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

Uintah County, Utah
Mineral Lease: UTU 37355

ONSHORE ORDER NO. 1

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

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted on April 14, 2010 showing the surface locations in NW/4 SW/4 of Section 8 T10S R23E.

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

An on-site meeting was held on May 18, 2010. Present were:

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

**Bonanza 1023-8E2DS/ 8E3DS/ 8K1CS/ 8K4CS/ 8L3DS
Kerr-McGee Oil & Gas Onshore LP**

**Surface Use Plan of Operations
Page 2**

Directional Drilling:

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

A. Existing Roads:

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

B. Planned Access Roads:

See MDP for additional details on road construction.

Approximately 220' (± 0.04 miles) of new access road as proposed is entirely on federal surface on lease UTU37355. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

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

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

- A) Refer to Topo Map C.

D. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

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

The following guidelines will apply if the well is productive.

Gas Gathering Pipeline:

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

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

- $\pm 180'$ (0.1 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 8" buried gas pipeline from the meter to the edge of the pad (please refer to Topo D- Pad and Pipeline Detail).
- $\pm 20'$ (0.2 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 8" buried gas pipeline from the edge of pad to the first tie in point (as shown on Exhibit A Line 4).
- $\pm 190'$ (0.04 miles) – Section 8 T10S R23E (NW/4 SW/4)– On-lease UTU37355, BLM surface, New 8" buried gas pipeline from the first tie in point for this pad to the tie in

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

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

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

Liquid Gathering Pipeline:

The liquid gathering lines will stay on lease and no additional ROW is needed.

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

- ±180' (0.14 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad (please refer to Topo D- Pad and Pipeline Detail).
- ±20' (0.01 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried high pressure liquid gathering pipeline is proposed from the edge of the pad to the tie in point adjacent to the south corner of this pad (as shown on Exhibit B Line 5H).
- ±190' (0.04 miles) – Section 8 T10S R23E (NW/4 SW/4)– On-lease UTU37355, BLM surface, New 6" buried high pressure liquid gathering pipeline from the proposed 20' portion of pipeline to the tie in point south of this pad (as shown on Exhibit B Line 6H).
- ±510' (0.1 miles) – Section 8 T10S R23E (NW/4 SW/4) – On-lease UTU37355, BLM surface, New 6" buried high pressure liquid gathering pipeline is proposed from the tie in point to the south of the this pad to the existing 6" liquid gathering pipeline (as shown on Exhibit B Line 7H). The ROW for this 6" line was submitted in May of 2010 by Kerr-McGee.

Liquid Gathering Pipeline material: Flex Steel

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

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

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

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

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

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

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

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

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

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

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

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

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

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

E. Location and Type of Water Supply:

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

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

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

No water well is to be drilled on this lease.

F. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods of Handling Waste Materials:

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

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

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

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

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

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

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

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

See MDP for additional details on Well Site Layout.

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

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

J. Plans for Reclamation of the Surface:

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

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

The Following Seed Mix is suggested for use during reclamation:

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

K. Surface/Mineral Ownership:

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

L. Other Information:

See MDP for additional details on Other Information.

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

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

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

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

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

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

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

July 1, 2010
Date



**INTERMOUNTAIN
PALEO-CONSULTING**

Stephen D. Sandau *Paleontologist*

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

IPC #09-212

Paleontological Reconnaissance Block Survey Report

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

**Asphalt Wash
Topographic Quadrangle
Uintah County, Utah**

May 11, 2010

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





Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #212

Operator: Kerr-McGee Oil & Gas Onshore LP

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

Pipeline: Associated pipeline leading to proposed well pad expansion

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

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

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

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

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

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

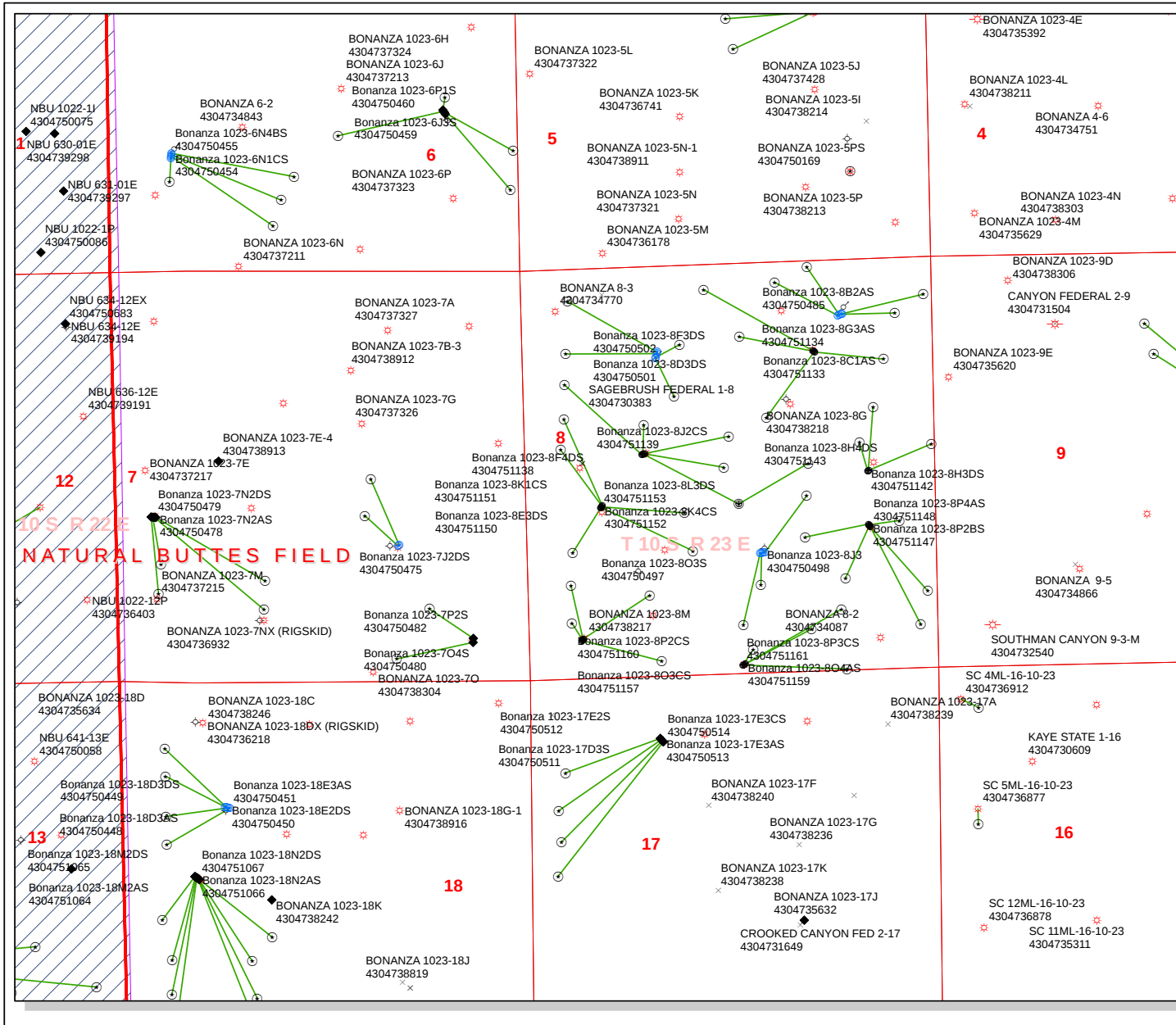
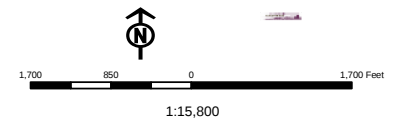
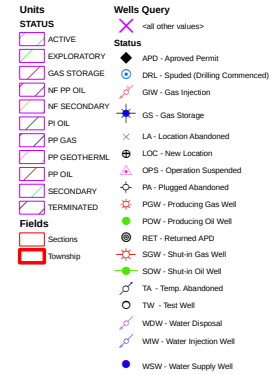
April 19, 2010

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

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

API Number: 4304751152
Well Name: Bonanza 1023-8K4CS
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



WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/2/2010

API NO. ASSIGNED: 43047511520000

WELL NAME: Bonanza 1023-8K4CS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWSW 08 100S 230E

Permit Tech Review: ☒

SURFACE: 2225 FSL 0951 FWL

Engineering Review: ☒

BOTTOM: 1630 FSL 2125 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.96217

LONGITUDE: -109.35613

UTM SURF EASTINGS: 640405.00

NORTHINGS: 4424642.00

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

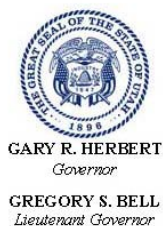
Effective Date: 6/12/2008

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 1023-8K4CS
API Well Number: 43047511520000
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

Commingling:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

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

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

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

Reporting Requirements:

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

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

Approved By:

A handwritten signature in black ink, appearing to read "B. J. Hill", is written over a horizontal line.

Acting Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 07 2010

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. UTU37355
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No.
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	8. Lease Name and Well No. BONANZA 1023-8K4CS
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 2225FSL 951FWL 39.96233 N Lat, 109.35672 W Lon At proposed prod. zone NESW 1630FSL 2125FWL 39.96072 N Lat, 109.35253 W Lon		9. API Well No. 43 047 51152
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 51 MILES SOUTHEAST OF VERNAL, UTAH		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1630 FEET	16. No. of Acres in Lease 1920.00	11. Sec., T., R., M., or Bk. and Survey or Arc Sec 8 T10S R23E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 387 FEET	19. Proposed Depth 8446 MD 8235 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5300 GL	22. Approximate date work will start 08/02/2010	13. State UT
20. BLM/BIA Bond No. on file WYB000291		17. Spacing Unit dedicated to this well 320.00
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:

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

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 07/02/2010
Title REGULATORY ANALYST I		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAY 27 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #89026 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 07/08/2010

NOTICE OF APPROVAL
RECEIVED

JUN 06 2011

DIV. OF OIL, GAS & MINING

UDOGM

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

Additional Operator Remarks:

Existing well on pad: Bonanza 1023-8L

New wells on pad:

-Bonanza 1023-8E2DS

-Bonanza 1023-8E3DS

-Bonanza 1023-8K1CS

-Bonanza 1023-8K4CS

-Bonanza 1023-8L3DS

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

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

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

Thank you for your assistance and time on this APD.



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	NWSW, Sec. 8, T10S, R23E (S) NESW, Sec. 8, T10S, R23E (B)
Well No:	Bonanza 1023-8K4CS	Lease No:	UTU-37355
API No:	43-047-51152	Agreement:	N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project."
- The area of potential effect (APE) is defined as the current project area within the polygons. This Class I is exempt from SHPO consultation based on the #4 exemption in the h-8110 Handbook. The Class I literature review of Kerr-McGee Oil and Gas Onshore's 27 Well Locations resulted in the identification of two previously documented archaeological sites (42Un3411 and 42Un3524), which are both recommended "eligible" for the National Register of Historic Places (NRHP). Both sites are located more than 150 ft outside the current project area and must be avoided by the current undertaking.
- If, during operations, any paleontological resources as described in BLM h-8270-1 are discovered, all operations which will affect such sites will be suspended and the discovery reported promptly to the surface management agency.
- During operations, if any vertebrate paleontological resources are discovered, in accordance with Section 6 of Form 3100-11 and 43 CFR 3162.1, operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Bernal BLM office shall be notified within 48 hours of the discovery, and a decision as to the preferred alternative/course of action will be rendered.

- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticide Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.
- Keep existing stock ponds.
- This project will be implemented on or after the sundry approval date. If the well has not been spudded by February 5, 2012 this sundry will expire and the operator is to cease all operations related to preparing to drill the well.

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

SITE SPECIFIC DOWNHOLE COAs:

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

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (1/4 1/4, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-8K4CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2225 FSL 0951 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 08 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047511520000			
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
☒ NOTICE OF INTENT Approximate date work will start: 7/20/2011 ☐ SUBSEQUENT REPORT Date of Work Completion: ☐ SPUD REPORT Date of Spud: ☐ DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> ☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> ☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☐ OTHER </td> <td style="width: 33%; vertical-align: top;"> ☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☒ APD EXTENSION OTHER: </td> </tr> </table>		☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☐ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☒ APD EXTENSION OTHER:
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.					
Approved by the Utah Division of Oil, Gas and Mining Date: 06/20/2011 By:					
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086			
SIGNATURE N/A		TITLE Regulatory Analyst II			
DATE 6/16/2011					

RECEIVED Jun. 16, 2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047511520000

API: 43047511520000

Well Name: BONANZA 1023-8K4CS

Location: 2225 FSL 0951 FWL QTR NWSW SEC 08 TWNP 100S RNG 230E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/20/2010

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

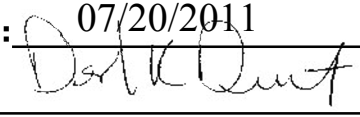
- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other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

Signature: Gina Becker

Date: 6/16/2011

Title: Regulatory Analyst II **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Jun. 16, 2011

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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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION	
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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: 		
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086
TITLE Regulatory Analyst II		DATE 7/11/2011
SIGNATURE N/A		DATE 7/11/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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COUNTY: UINTAH		STATE: UTAH
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☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ ALTER CASING	
☒ SPUD REPORT Date of Spud: 8/31/2011	☐ CASING REPAIR	
☐ DRILLING REPORT Report Date:	☐ CHANGE TO PREVIOUS PLANS	
	☐ CHANGE TUBING	
	☐ CHANGE WELL STATUS	
	☐ COMMINGLE PRODUCING FORMATIONS	
	☐ DEEPEN	
	☐ FRACTURE TREAT	
	☐ OPERATOR CHANGE	
	☐ PLUG AND ABANDON	
	☐ PRODUCTION START OR RESUME	
	☐ RECLAMATION OF WELL SITE	
	☐ REPERFORATE CURRENT FORMATION	
	☐ SIDETRACK TO REPAIR WELL	
	☐ TUBING REPAIR	
	☐ VENT OR FLARE	
	☐ WATER SHUTOFF	
	☐ SI TA STATUS EXTENSION	
	☐ WILDCAT WELL DETERMINATION	
	☐ OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD 28 SX READY MIX. SPUD WELL ON 08/31/2011 1330 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 9/2/2011	

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 1023-8K4CS
Qtr/Qtr NWSW Section 8 Township 10S Range 23E
Lease Serial Number UTU-37355
API Number 4304751152

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

Date/Time 08/31/2011 1000 HRS AM ☒ PM ☐

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

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

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AUG 30 2011

DIV. OF OIL, GAS & MINING

Date/Time 09/24/2011 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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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ ALTER CASING	
☐ SPUD REPORT Date of Spud:	☐ CASING REPAIR	
☒ DRILLING REPORT Report Date: 9/11/2011	☐ CHANGE TO PREVIOUS PLANS	
	☐ CHANGE WELL STATUS	
	☐ CHANGE WELL STATUS	
	☐ DEEPEN	
	☐ OPERATOR CHANGE	
	☐ PRODUCTION START OR RESUME	
	☐ REPERFORATE CURRENT FORMATION	
	☐ TUBING REPAIR	
	☐ WATER SHUTOFF	
	☐ WILDCAT WELL DETERMINATION	
	☐ ALTER CASING	
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	☐ FRACTURE TREAT	
	☐ PLUG AND ABANDON	
	☐ RECLAMATION OF WELL SITE	
	☐ SIDETRACK TO REPAIR WELL	
	☐ VENT OR FLARE	
	☐ SI TA STATUS EXTENSION	
	☐ OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON SEPT 9, 2011. DRILLED SURFACE HOLE TO 2290'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 9/12/2011		

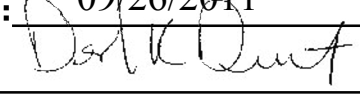
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 37355
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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION	
☒ NOTICE OF INTENT Approximate date work will start: 9/21/2011	☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION	
☐ SPUD REPORT Date of Spud:	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION	
☐ DRILLING REPORT Report Date:	☒ OTHER OTHER: Closed Loop System	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP requests authorization to drill the above captioned well with a closed-loop mud system. Please see the attached Exhibit A. This sundry has been submitted on behalf of the Natural Buttes Unit. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining Date: <u>09/26/2011</u> By: <u></u>		
NAME (PLEASE PRINT) Laura Abrams		PHONE NUMBER 720 929-6356
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 9/21/2011		

Exhibit A

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

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

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

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

Storage Tank Roll (6 frac tanks - 4 water, 2 mud):

- 1 4x3 Centrifugal Pump
- 1 Manifold
- 8 3-inch hose/20 foot section x qty 8 (estimate)
- 8 4-inch hose/20 foot section x qty 8 (estimate)

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

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
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078

Operator Account Number: N 2995

Phone Number: (435) 781-7024

Well 1 4304751153

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751553	BONANZA 1023-8L3DS		NWSW	8	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18197	8/31/2011			9/20/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSTMVD SPUD WELL ON 08/31/2011 AT 0930 HRS. BHL = NWSW							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751152	BONANZA 1023-8K4CS		NWSW	8	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18198	8/31/2011			9/20/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSTMVD SPUD WELL ON 08/31/2011 AT 1330 HRS. BHL = NESW							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751151	BONANZA 1023-8K1CS		NWSW	8	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18199	9/1/2011			9/20/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSTMVD SPUD WELL ON 09/01/2011 AT 0800 HRS BHL = NESW							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

9/2/2011

Date

(5/2000)

RECEIVED

SEP 07 2011

DIV. OF OIL, GAS & MINING

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 138
Submitted By DALTON KING Phone Number 435- 828-0982
Well Name/Number BONANZA 1023-8K4CS
Qtr/Qtr NW/SW Section 8 Township 10S Range 23E
Lease Serial Number UTU-37355
API Number 43-047-51152

Casing – Time casing run starts, not cementing times.

- ☐ Production Casing
☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
☐ Other

Date/Time 10/1/2011 01:00 AM ☒ PM ☐

RECEIVED

SEP 30 2011

DIV. OF OIL, GAS & MINING

Rig Move

Location To:

Date/Time _____ AM ☐ PM ☐

Remarks TIME IS ESTIMATED

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 138
Submitted By DALTON KING Phone Number 435- 828-0982
Well Name/Number BONANZA 1023-8K4CS
Qtr/Qtr NW/SW Section 8 Township 10S Range 23E
Lease Serial Number UTU-37355
API Number 43-047-51152

Casing – Time casing run starts, not cementing times.

- ☒ Production Casing
☐ Other

Date/Time 10/4/2011 14:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ Other

Date/Time ____ AM ☐ PM ☐

RECEIVED

OCT 04 2011

DIV. OF OIL, GAS & MINING

Rig Move

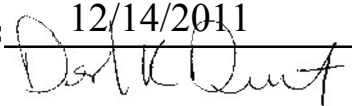
Location To:

Date/Time ____ AM ☐ PM ☐

Remarks TIME IS ESTIMATED

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
☐ NOTICE OF INTENT Approximate date work will start: ☐ SUBSEQUENT REPORT Date of Work Completion: ☐ SPUD REPORT Date of Spud: ☒ DRILLING REPORT Report Date: 10/5/2011	☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION ☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☐ OTHER ☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2290' TO 8509' ON OCT. 3, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 138 ON OCT. 5, 2011 @ 06:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 10/6/2011		DATE 10/6/2011

RECEIVED Oct. 06, 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			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-8K4CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2225 FSL 0951 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 08 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047511520000			
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
☒ NOTICE OF INTENT Approximate date work will start: 12/13/2011 ☐ SUBSEQUENT REPORT Date of Work Completion: ☐ SPUD REPORT Date of Spud: ☐ DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> ☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> ☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☒ OTHER </td> <td style="width: 33%; vertical-align: top;"> ☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: Cement Remediation </td> </tr> </table>		☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☒ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: Cement Remediation
☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☒ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: Cement Remediation			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests sundry approval for the attached well procedure. The well will require a fracture stimulation to be followed by a remedial cement squeeze. The Bonanza 1023-8K4CS well has been identified as requiring remediation and is currently being monitored and handled by our bradenhead best management practices.					
Accepted by the Utah Division of Oil, Gas and Mining Date: <u>12/14/2011</u> By: <u></u>					
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304			
SIGNATURE N/A		TITLE Regulatory Analyst			
		DATE 12/13/2011			

Greater Natural Buttes Unit



BONANZA 1023-8K4CS
COMPLETIONS & CEMENT REMEDIATION PROCEDURE

DATE:11/10/11
AFE#:2040538
API#:4304751152
USER ID:RACHAPPE (Frac Invoices Only)

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

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

RECEIVED Dec. 13, 2011

Name: **Bonanza 1023-8K4CS**
Location: **SW SE NE SW SEC8 T10S R23E**
LAT: 39.962329 **LONG:** -109.356719 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: **11/10/11**

ELEVATIONS: 5299' GL 5313' KB *Frac Registry TVD: 8285'*

TOTAL DEPTH: 8509' **PBTD:** 8448'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2269'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BT&C @ 8487'

Marker Joint **4236-4254 & 6264-6281'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P- 110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1081' Green River Top
 1397' Bird's Nest Top
 1777' Mahogany Top
 4254' Wasatch Top
 6435' Mesaverde Top

BOTTOMS:

6435' Wasatch Bottom
 8509' Mesaverde Bottom (TD)

T.O.C. @ 2770' from Schlumberger CBL 11/2/11

GENERAL:

- A minimum of **20** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Baker's Induction-Density-Neutron log dated 10/4/11
- **8** fracturing stages required for coverage.
- Procedure calls for **8** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **7000 psi.**

- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- If casing pressure test fails. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation (specific details on remediation will be provided in post-job-report). Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 7000 psi for 30 minutes.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)
- TIGHT SPACING ON STAGE 1 & 2- OVERFLUSH BY 5 BBLs
- Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg
- Well has gas migration in-between the Surface 8-5/8 and Production 4-1/2". Perform remediation after frac job has finished.

PROCEDURE:

1. Monitor current gas flow and/or pressure building up on the surface casing to establish a buildup rate.
2. NU and test BOPs. RIH 3 7/8" mill and clean out to PBTD @ ~8448' if possible, or to 8253' at a minimum. Circulate hole clean with recycled water. POOH. Run CBL (if needed).
3. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to **7000 psi** for 30 minutes; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 8-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

4. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	7981	7982	4	4
MESAVERDE	8058	8060	4	8
MESAVERDE	8079	8081	4	8
MESAVERDE	8222	8223	4	4

5. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7981' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

6. Set 8000 psi CBP at ~7965'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	7718	7720	4	8
MESAVERDE	7749	7750	4	4

MESAVERDE 7769	7770	4	4
MESAVERDE 7794	7795	4	4
MESAVERDE 7934	7935	4	4

7. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7718' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

8. Set 8000 psi CBP at ~7704'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7566	7567	4	4
MESAVERDE	7592	7593	4	4
MESAVERDE	7670	7674	4	16

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7566' trickle 250gal 15%HCL w/ scale inhibitor in flush.

10. Set 8000 psi CBP at ~7505'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7250	7252	3	6
MESAVERDE	7269	7270	3	3
MESAVERDE	7347	7348	3	3
MESAVERDE	7381	7382	3	3
MESAVERDE	7432	7433	3	3
MESAVERDE	7449	7450	3	3
MESAVERDE	7474	7475	3	3

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~7250' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

12. Set 8000 psi CBP at ~7070'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7013	7016	4	12
MESAVERDE	7037	7040	4	12

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~7013' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

14. Set 8000 psi CBP at ~6374'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6138	6141	4	12
WASATCH	6224	6226	4	8
WASATCH	6343	6344	4	4

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6138' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

16. Set 8000 psi CBP at ~5854'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5818	5824	4	24

17. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~5818' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
18. Set 8000 psi CBP at ~5658'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5389	5393	4	16
WASATCH	5626	5628	4	8
19. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~5389' and flush only with recycled water.
20. Set 8000 psi CBP at ~5339'. Call for tubing.
21. ND Frac Valves, NU and Test BOPs. Pressure test casing to 1,000 and 3,500 psi for 15 minutes each.
22. RIH and perf the following 3-3/8" gun, 23 gm, 0.36" hole:

From	To	spf	# of shots
2291	2292	6	6

**See Attached CBL pages 12-14
23. Establish injection rate into perforations
24. Monitor annulus between surface casing and 4-1/2" casing for communication. Based on communication results; perform desired cement squeeze.
25. RIH set CICR at **2250'**.
26. R/U cement company and pump recommended cement job into perforations from **2291 - 2292'**, based off injection rate and pressure. PUH w/stinger and cap with CICR with cement. Reverse circulate clean. WOC for a minimum 12 hours prior to drill out.
27. POOH. TIH with 3 7/8" bit, pump off sub, SN and tubing. D-O CICR and cement to ~ **2310'**. Pressure test casing and perforations to 1000 psi for 10 minutes. Also verify that there is no gas flow or pressure building up on the surface casing. Contact engineer if there is a test failure.
28. Drill plugs and clean out to PBTD. Shear off bit and land tubing at **±7688'** unless indicated otherwise by the well's behavior.
29. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
30. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call
Rachael Hill, Denver, CO
(720)-929-6599 (Office)
(303) 907-9167 (Cell)

For field implementation questions, please call
 Jeff Samuels, Vernal, UT
 (435) 781-7046 (Office)

NOTES:

TIGHT SPACING ON STAGE 1 & 2- OVERFLUSH BY 5 BBLs

Verify that the Braden head valve is locked OPEN.

Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg

Well has gas migration in-between the Surface 8-5/8 and Production 4-1/2". Perform remediation after frac job has finished

Total Stages	8	stages
Last Stage Flush	3,518	gals

Service Company Supplied Chemicals - Job Totals

Friction Reducer	180	gals @	0.5	GPT
Surfactant	361	gals @	1.0	GPT
Clay Stabilizer	361	gals @	1.0	GPT
15% Hcl	2000	gals @	250	gal/stg
Iron Control for acid	10	gals @	5.0	GPT of acid
Surfactant for acid	2	gals @	1.0	GPT of acid
Corrosion Inhibitor for acid	4	gals @	2.0	GPT of acid

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

Scale Inhibitor	812	gals pumped per schedule above
Biocide	180	gals @ 0.5 GPT

[illegible]

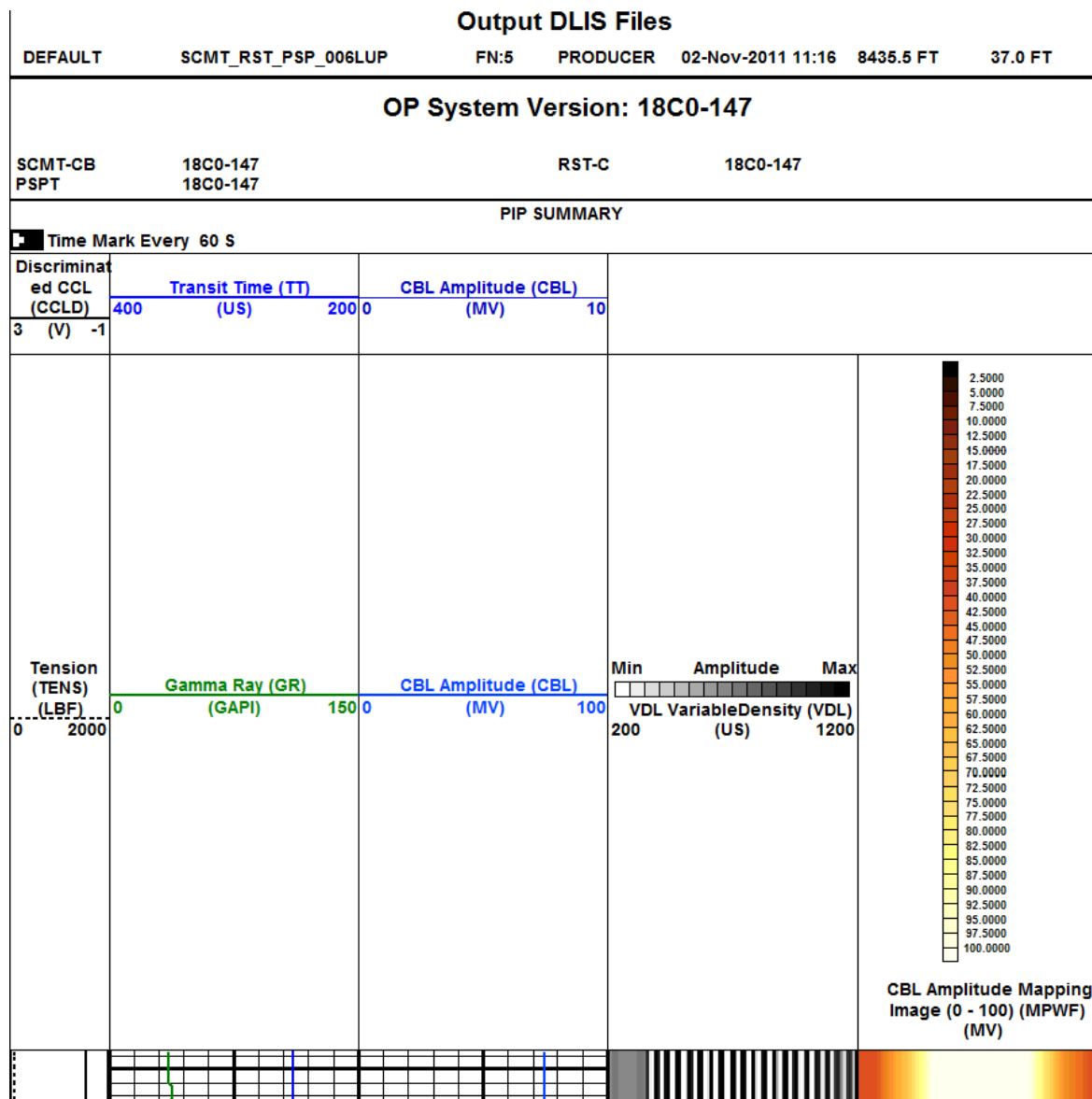
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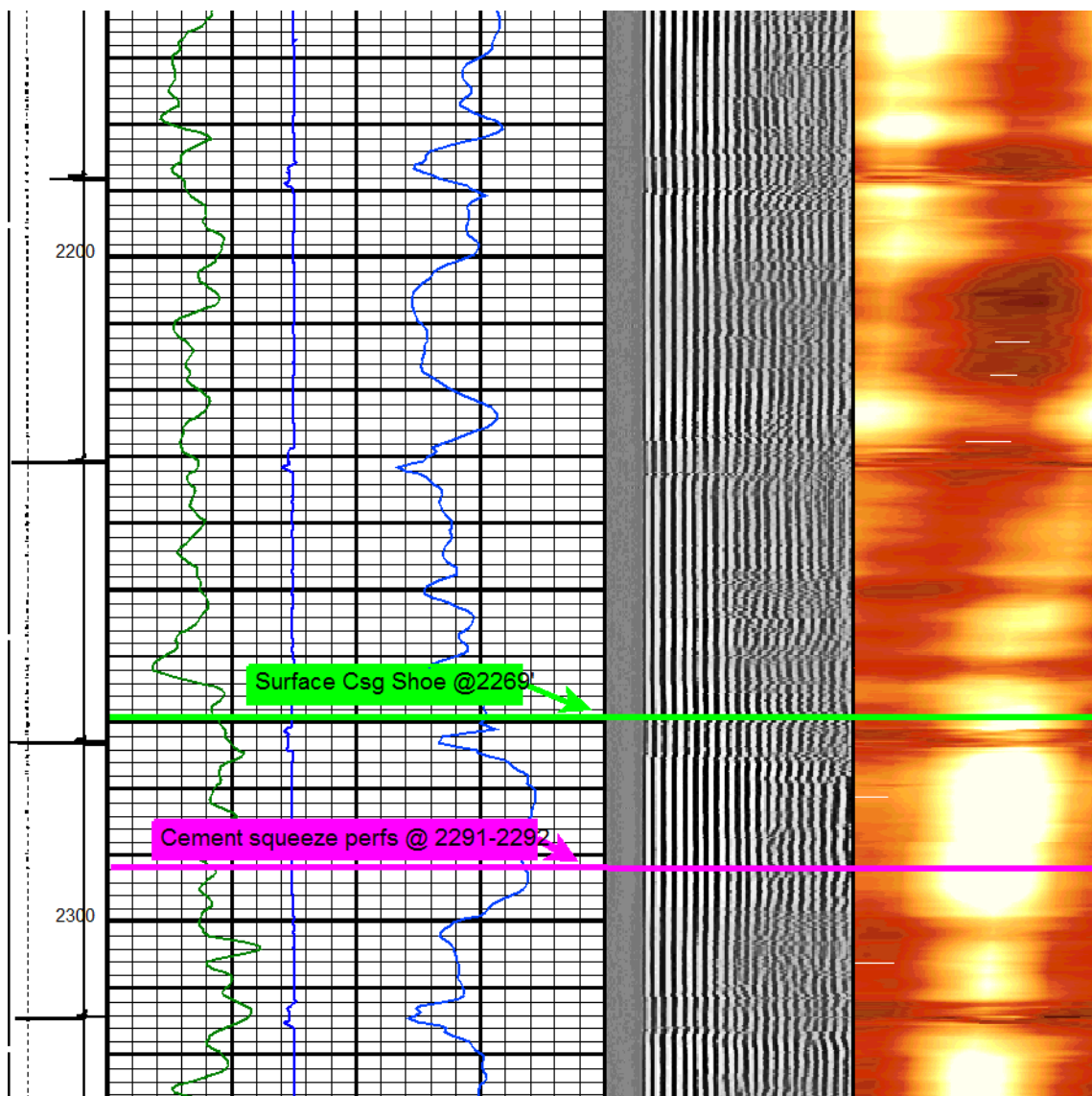
Name Bonanza 1023-8K4CS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	7981	7982	4	4	7979.5	to	7983.5
	MESAVERDE	8058	8060	4	8	8052.5	to	8083
	MESAVERDE	8079	8081	4	8	8052.5	to	8083
	MESAVERDE	8222	8223	4	4	8219.5	to	8224.5
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	7,965	
2	MESAVERDE	7718	7720	4	8	7705	to	7724
	MESAVERDE	7749	7750	4	4	7738.5	to	7751.5
	MESAVERDE	7769	7770	4	4	7755	to	7772.5
	MESAVERDE	7794	7795	4	4	7791	to	7804.5
	MESAVERDE	7934	7935	4	4	7921.5	to	7939
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	7,704	
3	MESAVERDE	7566	7567	4	4	7549.5	to	7570
	MESAVERDE	7592	7593	4	4	7584	to	7598.5
	MESAVERDE	7670	7674	4	16	7639.5	to	7681
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	7,505	
4	MESAVERDE	7250	7252	3	6	7233	to	7259
	MESAVERDE	7269	7270	3	3	7262	to	7273
	MESAVERDE	7347	7348	3	3	7294	to	7354
	MESAVERDE	7381	7382	3	3	7375	to	7460
	MESAVERDE	7432	7433	3	3	7375	to	7460
	MESAVERDE	7449	7450	3	3	7375	to	7460
	MESAVERDE	7474	7475	3	3	7462	to	7481
	# of Perfs/stage				24	CBP DEPTH	7,070	
5	MESAVERDE	7013	7016	4	12	7006	to	7023
	MESAVERDE	7037	7040	4	12	7030.5	to	7048.5
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	6,374	
6	WASATCH	6138	6141	4	12	6129	to	6147.5
	WASATCH	6224	6226	4	8	6217.5	to	6232.5
	WASATCH	6343	6344	4	4	6342.5	to	6347
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,854	
7	WASATCH	5818	5824	4	24	5815.5	to	5829
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,658	
8	WASATCH	5389	5393	4	16	5375.5	to	5395.5
	WASATCH	5626	5628	4	8	5624.5	to	5629.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,339	
Totals					192			

MD	TVD	EW	NS	INC	AZI		MD	TVD	EW	NS	INC	AZI
0.00	0.00	0.00	0.00	0.00	0.00		4199.00	3989.52	1090.49	-534.31	16.05	108.73
10.00	10.00	0.00	0.00	0.00	0.00		4293.00	4079.71	1115.45	-543.08	16.65	109.99
189.00	189.00	-0.32	0.26	0.26	309.11		4388.00	4171.12	1139.76	-551.97	14.97	110.19
273.00	272.99	0.19	-0.15	1.14	129.02		4482.00	4262.54	1160.18	-559.59	11.85	110.81
357.00	356.94	2.85	-1.53	2.99	112.94		4577.00	4355.84	1176.84	-566.13	9.86	112.16
447.00	446.71	8.63	-3.99	5.01	113.20		4671.00	4448.78	1188.98	-573.09	7.47	129.93
537.00	536.20	17.19	-8.15	7.14	117.85		4766.00	4543.18	1196.01	-580.95	5.46	149.50
627.00	625.35	28.08	-13.98	8.64	118.40		4860.00	4636.90	1199.17	-587.41	3.37	161.17
717.00	714.07	41.42	-21.02	10.66	117.36		4955.00	4731.75	1200.04	-592.64	3.12	180.63
807.00	802.31	57.13	-29.21	12.05	117.65		5050.00	4826.67	1199.66	-596.24	1.29	199.20
897.00	890.06	74.77	-38.57	13.59	118.23		5144.00	4920.66	1198.51	-596.21	1.59	321.94
987.00	977.24	94.69	-48.74	15.19	115.96		5239.00	5015.59	1196.45	-593.27	2.74	326.73
1077.00	1063.74	116.84	-59.97	16.85	117.75		5333.00	5109.51	1194.21	-590.17	1.94	320.33
1167.00	1149.62	140.79	-72.23	17.94	116.48		5428.00	5204.47	1192.49	-588.31	1.12	312.21
1257.00	1234.95	166.59	-84.58	19.13	114.75		5522.00	5298.46	1191.38	-587.03	0.97	326.94
1347.00	1319.56	194.54	-97.18	20.71	113.82		5617.00	5393.45	1190.64	-585.83	0.73	330.21
1437.00	1403.55	224.08	-110.36	21.42	114.27		5712.00	5488.42	1189.13	-584.21	1.96	312.15
1527.00	1487.45	253.32	-124.71	21.03	118.04		5806.00	5582.37	1186.79	-582.20	1.81	309.09
1617.00	1571.22	282.33	-140.22	21.85	118.19		5901.00	5677.32	1184.43	-580.41	1.76	305.14
1707.00	1654.61	312.36	-155.84	22.34	116.79		5995.00	5771.29	1182.42	-579.07	1.19	301.40
1797.00	1737.78	343.14	-171.18	22.59	116.20		6090.00	5866.27	1180.75	-578.03	1.18	302.41
1887.00	1820.64	374.89	-186.21	23.36	114.49		6184.00	5960.26	1179.31	-577.11	0.91	302.96
1977.00	1903.54	406.49	-201.35	22.48	116.77		6279.00	6055.25	1178.26	-576.73	0.50	265.00
2067.00	1986.56	437.63	-216.75	22.93	115.86		6373.00	6149.25	1177.72	-576.26	0.64	345.56
2157.00	2069.59	469.06	-231.53	22.47	114.50		6468.00	6244.24	1177.56	-575.13	0.74	357.74
2247.00	2152.93	500.04	-245.45	21.88	113.89		6563.00	6339.23	1177.77	-573.72	1.01	16.23
2307.00	2208.73	520.46	-253.83	21.30	110.67		6657.00	6433.21	1178.13	-571.96	1.18	7.65
2402.00	2297.44	552.44	-265.33	20.63	108.86		6752.00	6528.19	1177.48	-570.25	1.30	313.49
2496.00	2385.44	583.34	-276.97	20.52	112.45		6846.00	6622.17	1175.80	-569.22	1.17	287.97
2591.00	2474.60	613.64	-289.55	19.88	112.62		6941.00	6717.16	1174.15	-568.84	0.88	276.58
2686.00	2564.00	642.84	-302.99	19.70	116.86		7035.00	6811.14	1172.68	-569.01	0.97	251.09
2780.00	2651.89	672.62	-317.92	21.81	116.40		7130.00	6906.13	1171.25	-569.94	1.14	225.07
2875.00	2739.72	704.80	-334.47	22.98	117.99		7225.00	7001.11	1169.99	-571.35	1.14	218.81
2969.00	2826.32	737.17	-351.51	22.82	117.53		7321.00	7097.10	1168.97	-572.45	0.66	228.91
3064.00	2914.45	768.73	-367.62	20.99	116.53		7416.00	7192.09	1167.83	-572.48	0.97	294.68
3158.00	3002.52	797.70	-383.11	19.94	119.79		7510.00	7286.08	1166.71	-571.73	0.70	316.65
3253.00	3091.85	825.52	-399.61	19.87	121.58		7605.00	7381.08	1166.15	-571.07	0.35	324.92
3348.00	3181.46	852.68	-415.64	18.92	119.45		7699.00	7475.07	1165.64	-570.88	0.42	261.27
3442.00	3270.44	879.02	-430.62	18.69	119.83		7794.00	7570.07	1165.15	-571.27	0.44	203.89
3537.00	3360.37	905.58	-445.86	18.92	119.86		7888.00	7664.07	1165.06	-572.11	0.62	174.09
3631.00	3449.42	931.34	-461.40	18.42	122.38		7983.00	7759.05	1165.19	-573.78	1.41	176.03
3726.00	3539.69	956.84	-476.47	17.93	118.72		8077.00	7853.02	1165.64	-576.33	1.76	165.31
3820.00	3629.32	981.71	-489.98	17.12	118.28		8172.00	7947.96	1166.95	-579.26	2.16	148.02
3915.00	3719.79	1007.56	-503.11	18.42	115.68		8266.00	8041.89	1168.71	-582.48	2.31	154.59
4009.00	3808.50	1036.17	-515.23	20.23	110.48		8361.00	8136.78	1170.12	-586.84	3.26	167.27
4104.00	3898.48	1064.81	-525.53	17.15	108.98		8464.00	8239.60	1171.76	-592.70	3.52	161.63
							8519.00	8294.49	1172.83	-595.90	3.52	161.63

Schlumberger			
Company: KERR-MCGEE OIL & GAS ONSHORE LP			
Well: BONANZA 1023-8K4CS			
Field: GREATER NATURAL BUTTES			
County: UINTAH State: UTAH			
County: UINTAH Field: GREATER NATURAL BUTTES Location: SHL: 2225' FSL, 951' FWL Well: BONANZA 1023-8K4CS Company: KERR-MCGEE OIL & GAS ONS		CEMENT BOND LOG GAMMA RAY COLLARS	
LOCATION SHL: 2225' FSL, 951' FWL BHL: 1630' FSL, 2125' FWL Permanent Datum: _____ Log Measured From: KELLY BUSHING Drilling Measured From: KELLY BUSHING		Elev.: K.B. 5312.00 ft G.L. 5299.00 ft D.F. 5311.00 ft Elev.: 5299.00 ft 13.00 ft above Perm. Datum	
API Serial No. 43047511520000	Section: 8	Township: 10S	Range: 23E
Logging Date 2-Nov-2011			
Run Number 1			
Depth Driller 8283 ft			
Schlumberger Depth 8426 ft			
Bottom Log Interval 8417 ft			
Top Log Interval 100 ft			
Casing Fluid Type WATER			
Salinity			
Density 8.4 lbm/gal			
Fluid Level 13 ft			
BIT/CASING/TUBING STRING			
Bit Size 7.875 in			
From 13 ft			
To 8283 ft			
Casing/Tubing Size 4.500 in			
Weight 11.6 lbm/ft			
Grade			
From 13 ft			
To 8426 ft			
Maximum Recorded Temperatures 186 degF			
Logger On Bottom 2-Nov-2011	10:20		
Unit Number 403	VERNAL		
Recorded By ANDY MAY			
Witnessed By JEFF SAMUELS			
Oil Density Water Salinity Gas Gravity Bo Bw L 1/Bq PV Bubble Point Pressure Bubble Point Temperature Solution GOR Maximum Deviation CEMENTING DATA Primary/Squeeze Casing String No Lead Cement Type Volume Density Water Loss Additives Tail Cement Type Volume Density Water Loss Additives Expected Cement Top			
Logging Date 2-Nov-2011			
Run Number 1			
Depth Driller 8283 ft			
Schlumberger Depth 8426 ft			
Bottom Log Interval 8417 ft			
Top Log Interval 100 ft			
Casing Fluid Type WATER			
Salinity			
Density 8.4 lbm/gal			
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Casing/Tubing Size 4.500 in			
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Grade			
From 13 ft			
To 8426 ft			
Maximum Recorded Temperature 186 degF			
Logger On Bottom 2-Nov-2011	10:20		
Unit Number 403	VERNAL		
Recorded By ANDY MAY			
Witnessed By JEFF SAMUELS			





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:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-8K4CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2225 FSL 0951 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 08 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047511520000			
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION ☐ NOTICE OF INTENT Approximate date work will start: ☐ SUBSEQUENT REPORT Date of Work Completion: ☐ SPUD REPORT Date of Spud: ☒ DRILLING REPORT Report Date: 12/21/2011	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> ☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☒ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> ☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☐ OTHER </td> <td style="width: 33%; vertical-align: top;"> ☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: </td> </tr> </table>		☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☒ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☐ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER:
☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☒ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☐ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 12/21/2011 AT 0930 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.					
NAME (PLEASE PRINT) Sheila Wopsock		PHONE NUMBER 435 781-7024			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 12/21/2011					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU373551a. 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 Contact: JAIME L. SCHARNOWSKE
KERR MCGEE OIL & GAS ONSHORE, Mail: JAIME.SCHARNOWSKE@ANADARKO.COM8. Lease Name and Well No.
BONANZA 1023-8K4CS3. Address PO BOX 173779
DENVER, CO 802173a. Phone No. (include area code)
Ph: 720-929-6304

9. API Well No. 43-047-51152

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

At surface NWSW 2225FSL 951FWL 39.962329 N Lat, 109.356719 W Lon

At top prod interval reported below NESW 1638FSL 2140FWL

At total depth NESW 1631FSL 2120FWL

BHL by HSM

10. Field and Pool, or Exploratory
NATURAL BUTTES11. Sec., T., R., M., or Block and Survey
or Area Sec 8 T10S R23E Mer SLB12. County or Parish
UINTAH13. State
UT14. Date Spudded
08/31/201115. Date T.D. Reached
10/03/201116. Date Completed
☐ D & A ☒ Ready to Prod.
12/21/201117. Elevations (DF, KB, RT, GL)*
5299 GL18. Total Depth: MD 8509
TVD 828519. Plug Back T.D.: MD 8450
TVD 822620. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
SYNTHETIC COMBO-RSL/SM-HDIL/ZDL/CNCR22. 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	2269		850		0	
7.875	4.500 I-80	11.6	0	8487		1350		2770	

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	7694							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5389	6344	5389 TO 6344	0.360	72	OPEN
B) MESAVERDE	7013	8223	7013 TO 8223	0.360	120	OPEN
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5389 TO 8223	PUMP 9,113 BBLs SLICK H2O & 197,220 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/21/2011	12/30/2011	24	→	0.0	2342.0	600.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	165	180.0	→	0	2342	600		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	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 #130770 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 BIRD'S NEST MAHOGANY WASATCH MESAVARDE	1081 1397 1777 4254 6435

32. Additional remarks (include plugging procedure):

Attached is the chronological well history, perforation report & final survey.
Cement remediation was conducted between 2291-2292 (see chrono report).

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 #130770 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 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD			Rig Name No: PROPETRO 12/12, ENSIGN 138/138
Event: DRILLING		Start Date: 6/13/2011		End Date: 10/5/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/9/2011	4:00 - 8:00	4.00	MIRU	01	C	P		SKID RIG 10' TO BONANZA 1023-8K4CS (WELL 2 OF 5). INSTALL DIVERTOR HEAD AND BOWIE LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK AND PIPE RACKS. READY. RIG UP PIT PUMP. RIG UP PUMP. PRIME PUMP. INSPECT RIG.
	8:00 - 8:30	0.50	PRSPD	01	B	P		HELD PRE-SPUD SAFETY MEETING. TALKED ABOUT HANDLING TUBULAR'S. P/U 8" 1.83 BEND .17 RPG MUD MOTOR (1ST RUN) (SN 8034). M/U QD507 12.25" BIT (2ND RUN) (SN 7017967). TRIP IN TO SPUD (WELL 2 OF 5).
	8:30 - 10:00	1.50	DRLSUR	02	D	P		SPUD 09/09/2011 08:30. DRILL 12.25" HOLE 40'-210'. (170', 113'/HR) GPM 400. DH RPM 68 RPM=45, WOB 5-15K. PSI ON/OFF 700/500. UP/DOWN/ ROT 20/20/20 K. DRAG 0 K. CIRC RESERVE W. 8.3# WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
	10:00 - 11:30	1.50	DRLSUR	06	A	P		TRIP OUT. LAY DOWN 6" DRILL COLLARS. CHECK BIT AND MOTOR. SCRIBE MOTOR. P/U 8" DIRECTIONAL ASSEMBLY AND SCRIBE. INSTALL EM TOOL. TRIP IN TO 210' TO DRILL AHEAD
	11:30 - 16:30	5.00	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 210'-940' (730', 146'/HR) GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1220/980. UP/DOWN/ ROT 53/46/50 K. DRAG 3K. CIRC RESERVE W. 8.3# WATER.
	16:30 - 0:00	7.50	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 940'-1600 (660', 88'/HR) GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1200/1009. UP/DOWN/ ROT 72/50/62 K. DRAG 10K. CIRC RESERVE W. 8.3# WATER. LOST RETURN'S @ 1640'. PUT AIR ON THE HOLE @ 1800 CFM. LAST SURVEY 1517' INC-21.03 AZ-118.04 26.1' HIGH 1.9' LEFT OF THE LINE
9/10/2011	0:00 - 4:30	4.50	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 1600'-1930' (330', 74'/HR) GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1310/1096. UP/DOWN/ ROT 76/53/64 K. DRAG 12K. CIRC RESERVE W. 8.3# WATER. LOST RETURN'S @ 1640'. PUT AIR ON THE HOLE @ 1800 CFM.
	4:30 - 9:30	5.00	DRLSUR	02	D	P		DRILL SLIDE. 12.25" HOLE 1930'-2290' (360', 72'/HR) TD @ 09:30 09/10/2011 GPM 491. DH RPM 86 RPM=55, WOB 15-20K. PSI ON/OFF 1600/1350. UP/DOWN/ ROT 80/60/70 K. DRAG 10K. CIRC RESERVE W. 8.3# WATER. LOST RETURN'S @ 1640'. PUT AIR ON THE HOLE @ 1800 CFM. LAST SURVEY @ 2237' INC-21.88 AZ-113.89 28' HIGH 3 1/2' LEFT OF THE LINE
	9:30 - 11:30	2.00	DRLSUR	05	A	P		CIRCULATE AND CONDITION HOLE FOR CASING RUN
	11:30 - 14:00	2.50	DRLSUR	06	D	P		LDDS NO TIGHT WHILE LAYING DOWN DRILL STRING. LAY DOWN DIRECTIONAL TOOLS. PULL MOTOR AND BREAK BIT. LAY DOWN MOTOR.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD		Rig Name No: PROPETRO 12/12, ENSIGN 138/138	
Event: DRILLING		Start Date: 6/13/2011		End Date: 10/5/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 15:00	1.00	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U.
	15:00 - 18:30	3.50	DRLSUR	12	C	P		HOLD SAFETY MEETING. RUN 53 JTS OF 8-5/8" 28# J-55 LTC CSG. LAND FLOAT SHOE @ 2259.40' KB. LAND BAFFLE PLATE @ 2190.40' KB. MADE FLOAT SHOE UP WITH THREAD LOCK. RAN 5 TOTAL CENTRALIZERS.
	18:30 - 19:05	0.58	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES, CEMENT HEAD, LOAD PLUG.
	19:05 - 19:58	0.88	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 130 BBLs OF WATER AHEAD. CATCH PSI. PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61.4 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 137 BBLs OF H2O. NO CIRC THROUGH OUT. LIFT PSI OF 130 PSI AT 7 BBL/MIN. BUMP PLUG HELD 800 PSI FOR 5 MIN. FLOAT HELD. PUMP (150 SX) 25.4 BBLs OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE. SHUT DOWN AND CLEAN TRUCK. NO CEMENT TO SURFACE.
	19:58 - 0:00	4.03	DRLSUR	12	E	P		WAIT 2 HRS AND PUMP (125 SX) 46 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 4% CALC. GOOD BLOW ON BACKSIDE AT END OF TOP OUT, BUT STILL NO CEMENT TO SURFACE. WAIT 2 HRS
9/11/2011	0:00 - 1:00	1.00	DRLSUR	12	E	P		PUMP (125 SX) 25.4 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 4% CALC. GOOD BLOW ON BACKSIDE AT END OF TOP OUT, CEMENT DOWN 100'. SHUT DOWN AND CLEAN TRUCK. RIG DOWN CEMENT CREW. WILL TOP OUT CEMENT ON NEXT WELL CEMENT JOB. ALSO PUMPED (200 SX) 40.5 BBL'S SAME TOP OUT CEMENT DOWN THE BACK SIDE OF BONANZA 1023-8L3DS. WITH NO RETURN'S TO SURFACE. WILL TOP OUT ON NEXT CEMENT JOB. RELEASED RIG @ 01:00 09/11/2011
	1:00 - 1:00	0.00	DRLSUR	12	E	P		09/12/2011 20:00 PUMP 150 SX DOWN THE BACK SIDE WITH 1 BBL TO SURFACE
9/30/2011	18:00 - 19:00	1.00	MIRU	01	B	P		SKID THE RIG AND NU BOP
	19:00 - 22:30	3.50	DRLPRO	15		P		S/M W/ A-1 TESTING, R/U & TEST BOP, FLOOR VALVES, UPPER & LOWER KELLY VALVES, INSIDE & OUT SIDE KILL LINE ,CHOKE & HCR VALVES, CHOKE MANIFOLD, PIPE & BLIND RAMS 250/5 MIN, 5000/ 10 MIN, ANNULAR 250/5 MIN, 2500/ 10 MIN, CASING TO 1500 F/ 30 MIN, R/D TESTER
	22:30 - 23:00	0.50	DRLPRO	14	B	P		INSTALL THE WEAR BUSHING
	23:00 - 0:00	1.00	MAINT	07	C	P		CHANGE OUT THE GRABBER DIES AND THE SAVER SUB
10/1/2011	0:00 - 0:30	0.50	PRPSPD	06	A	P		PU MM AND MAKE UP THE BIT.
	0:30 - 4:00	3.50	ALL	08	A	Z		IRON DERRICKMAN WOULD NOT RELEASE THE MONEL DRILL COLLAR
	4:00 - 4:30	0.50	PRPSPD	06	A	P		PU THE MWD TOOL AND INSTALL IT

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE

Spud Conductor: 8/31/2011

Spud Date: 9/9/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-8L PAD

Rig Name No: PROPETRO 12/12, ENSIGN 138/138

Event: DRILLING

Start Date: 6/13/2011

End Date: 10/5/2011

Active Datum: RKB @5,313.00usft (above Mean Sea Level)

UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:30 - 5:00	0.50	ALL	08	A	Z		W/O IDH AGAIN TECH HAS BEEN NOTIFIED BUT HE IS IN ND
	5:00 - 7:30	2.50	DRLPRO	06	A	P		TIH TO DRILL TAGGED CEMENT @ 2158'
	7:30 - 8:00	0.50	DRLPRO	02	F	P		DRILLED OUT THE SHOE TRACK
	8:00 - 13:00	5.00	DRLPRO	02	D	P		DRILL/SLIDE 2300'-3205', 905' @ 181'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2090/1590 TORQUE 9/8 PU/SO/ROT 115/93/102 RUNNING THE CLOSED LOOP SYSTEM AT 100% WITH WATER @ 8.3 WT. SLIDE 145' 1.09 HR. 133'/HR HELD A BOP DRILL RIG SERVICE
	13:00 - 13:30	0.50	MAINT	07	A	P		
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL/SLIDE 3205'-4846, 1641' @ 156.1'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2321/1757 TORQUE 10/9 PU/SO/ROT 130/108/120 RUNNING THE CLOSED LOOP SYSTEM AUGER SYSTEM IS DOWN WITH WATER @ 8.8 WT. SLIDE 552' 4.11 HR. 134.3'/HR
10/2/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/SLIDE 4846'-5759', 913' @ 152.2'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2321/1757 TORQUE 11/10 PU/SO/ROT 130/114/120 @ 8.8 WT. WATER SLIDE 144' .93 HR. 154.8'/HR
	6:00 - 12:30	6.50	DRLPRO	02	D	P		DRILL/SLIDE 5759'-6515', 756' @ 116.3'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2380/1805 TORQUE 12/11 PU/SO/ROT 157/132/141 WATER @ 8.6 WT. SLIDE 60' .75 HR. 80'/HR RIG SERVICE
	12:30 - 13:00	0.50	MAINT	07	A	P		
	13:00 - 0:00	11.00	MAINT	02	D	P		DRILL/SLIDE 6515'-7383, 868' @ 78.9'/HR RPM: MM/151, ROT/50 18K WOB PUMPS: 120STK, 540 GPM ON/OFF BOTTOM PRESS. 2986/2370 TORQUE 15/12 PU/SO/ROT 178/145/163 MUDDER UP 36 VIS 9.9/WT. SLIDE 115' 3.16 HR. 36.4'/HR

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD		Rig Name No: PROPETRO 12/12, ENSIGN 138/138	
Event: DRILLING		Start Date: 6/13/2011		End Date: 10/5/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/NW/0/951/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/3/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		DRILL/SLIDE 7383'-8311', 928' @ 80.7'/HR RPM: MM/139, ROT/50 18K WOB PUMPS: 110STK, 496 GPM ON/OFF BOTTOM PRESS. 2948/2367 TORQUE 15/13 PU/SO/ROT 189/154/171 MUDDER UP 38 VIS 11.3/WT. RIG SERVICE
	11:30 - 12:00	0.50	MAINT	07	A	P		
	12:00 - 14:30	2.50	DRLPRO	02	D	P		DRILL/SLIDE 8311'-8509', 198' @ 79.2'/HR RPM: MM/139, ROT/50 18K WOB PUMPS: 110STK, 496 GPM ON/OFF BOTTOM PRESS. 2948/2367 TORQUE 15/13 PU/SO/ROT 189/154/171 MUDDER UP 38 VIS 11.3/WT.
	14:30 - 16:00	1.50	DRLPRO	05	C	P		CIRC./COND. FOR A WIPER TRIP
	16:00 - 21:30	5.50	DRLPRO	06	E	P		PUMPED 8 STANDS OUT OF THE HOLE PUMPED A SLUG AND MADE A WIPER TRIP TO 5000'. FILLED THE PIPE @ 5000'
	21:30 - 23:30	2.00	DRLPRO	05	C	P		CIRC./COND. FOR LOGS
	23:30 - 0:00	0.50	DRLPRO	06	B	P		TOH FOR LOGS
	0:00 - 10:00	10.00	DRLPRO	06	B	P		TOH FOR LOGS. TIGHT SPOTS TRIPPING OUT OF THE HOLE FROM 2265-3000'.
	10:00 - 10:30	0.50	DRLPRO	14	A	P		PULLED THE WEAR BUSHING
	10:30 - 14:00	3.50	EVALPR	11	D	P		WE HELD A S/M AND RIGGED UP BAKER ATLAS. RAN TRIPLE COMBO LOGS. DRILLERS TD WAS 8095' LOGGERS BRIDGED OUT @ 7782' LOGGED OUT TO SURFACE.
10/4/2011	14:00 - 0:00	10.00	CSG	12	C	P		HELD A SAFETY MEETING WITH FRANKS WESTSTATE. R/U THE CASING CREW AND RAN 202 JTS. + 2 MARKERS OF 4.5" / 11.6# / I-80 / BTC CASING. LANDED @ 8486.5', FC @ 8448.3', MARKER JTS. @ 6260' & 4235'. CHECKED FLOATS @ 3JTS. IN. FILLED THE PIPE @ 750', 2268' (CSG. SHOE) AND 5500'.
10/5/2011	0:00 - 1:00	1.00	CSG	05	D	P		CIRC. THE CASING @ 85 STKS., 335 GPM, 775 PSI. 4' FLARE ON BOTTOMS UP.
	1:00 - 3:00	2.00	CSG	12	E	P		PUMPED 5 BBL 8.34 SPACER WATER, 20 SX PREMIUM LITE II CEMENT, 10.4#, 4.15 YIELD SCAVENGER CEMENT, 330 SX PREMIUM LITE II CEMENT 11.4#, 2.79 YIELD LEAD CEMENT, 1020 SX 50:50 POZ (ASH FLY) CLASS G WATER 14.3# 1.31 YLD., DISPLACE W/ 130.7 BBLS CLAYCARE + 1 GAL MAGNACIDE @ 8.34 PPG WATER, FINAL LIFT 2420 PSI, BUMPED BLUG @ 3100 PSI, FLOATS HELD, 50 BBLS LEAD CEMENT BACK TO PIT, GOOD RETURNS THROUGHOUT JOB TOP OF TAIL EST @ 2620', R/D CEMENTERS
	3:00 - 5:00	2.00	RDMO	01	E	P		FLUSHED OUT THE BOP AND FLOW LINE, PREPED THE STACK FOR SETTING SLIPS, AND PREPPED THE RIG TO SKID
	5:00 - 6:00	1.00	RDMO	14	A	P		SET 90K ON THE C-22 SLIPS. PU STACK AND CUT OFF. RIG RELEASED @ 06:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-8K4CS BLUE	Wellbore No.	OH
Well Name	BONANZA 1023-8K4CS	Wellbore Name	BONANZA 1023-8K4CS
Report No.	1	Report Date	11/17/2011
Project	UTAH-UINTAH	Site	BONANZA 1023-8L PAD
Rig Name/No.		Event	COMPLETION
Start Date	11/17/2011	End Date	12/20/2011
Spud Date	9/9/2011	Active Datum	RKB @5,313.00usft (above Mean Sea Level)
UWI	NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/NW/0/951/0/0		

1.3 General

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

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,389.0 (usft)-8,223.0 (usft)	Start Date/Time	11/21/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	27	End Date/Time	11/21/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	0	Net Perforation Interval	50.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	0.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/21/2011 12:00AM	WASATCH/			5,389.0	5,393.0			0.360	EXP/	3.375	90.00			23.00 PRODUCTION	
														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
11/21/201 1 12:00AM	WASATCH/			5,626.0	5,628.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	WASATCH/			5,818.0	5,824.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	WASATCH/			6,138.0	6,141.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	WASATCH/			6,224.0	6,226.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	WASATCH/			6,343.0	6,344.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,013.0	7,016.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,037.0	7,040.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,250.0	7,252.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,269.0	7,270.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,347.0	7,348.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,381.0	7,382.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,432.0	7,433.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,449.0	7,450.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/21/201 1 12:00AM	MESAVERDE/			7,474.0	7,475.0			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
11/21/2011 12:00AM	MESAVERDE/			7,566.0	7,567.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,592.0	7,593.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,670.0	7,674.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,718.0	7,720.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,749.0	7,750.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,769.0	7,770.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,794.0	7,795.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,934.0	7,935.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			7,981.0	7,982.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			8,058.0	8,060.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			8,079.0	8,081.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/21/2011 12:00AM	MESAVERDE/			8,222.0	8,223.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011	Spud Date: 9/9/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/17/2011	End Date: 12/20/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/17/2011	11:00 - 12:30	1.50	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 12 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 29 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 65 PSI. NO COMMUNICATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFW
11/28/2011	7:00 - 17:00	10.00	COMP	36	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 1)WHP 155 PSI, BRK 4406 PSI @ 4.8 BPM. ISIP 2215 PSI, FG .71 CALC HOLES OPEN @ 50.6 BPM @ 4610 PSI = 100% HOLES OPEN. ISIP 2190 PSI, FG .71, NPI -25 PSI. MP 5887 PSI, MR 50.6 BPM, AP 4219 PSI, AR 50.4 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7965' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 1460 PSI, BRK 2906 PSI @ 4.3 BPM. ISIP 2179 PSI, FG .72 CALC HOLES OPEN @ 50.2 BPM @ 4542 PSI = 100% HOLES OPEN. ISIP 2511 PSI, FG .76, NPI 332 PSI. MP 6507 PSI, MR 51.5 BPM, AP 4455 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE. SWIFN

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE

Spud Conductor: 8/31/2011

Spud Date: 9/9/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-8L PAD

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 11/17/2011

End Date: 12/20/2011

Active Datum: RKB @5,313.00usft (above Mean Sea Level)

UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/29/2011	7:00 - 17:00	10.00	COMP	36	B	P		PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7704' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 3)WHP 1580 PSI, BRK 2329 PSI @ 4.5 BPM. ISIP 1649 PSI, FG .66 CALC HOLES OPEN @ 50.6 BPM @ 4333 PSI = 100% HOLES OPEN. ISIP 2072 PSI, FG .71, NPI 423 PSI. MP 5069 PSI, MR 51.5 BPM, AP 4112 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7505' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 820 PSI, BRK 2025 PSI @ 3.8 BPM. ISIP 1188 PSI, FG .60 CALC HOLES OPEN @ 50.1 BPM @ 3556 PSI = 100% HOLES OPEN. ISIP 1587 PSI, FG .65, NPI 399 PSI. MP 4063 PSI, MR 51.5 BPM, AP 3253 PSI, AR 50.4 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7070' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 825 PSI, BRK 2806 PSI @ 4.0 BPM. ISIP 1480 PSI, FG .65. CALC HOLES OPEN @ 50.5 BPM @ 3938 PSI = 100% HOLES OPEN. ISIP 0000 PSI, FG .00, NPI 0000 PSI. MP 0000 PSI, MR 00 BPM, AP 0000 PSI, AR 00.0 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6374' P/U PERF AS PER PERF DESIGN. POOH. SWIFN

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 11/17/2011		End Date: 12/20/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/30/2011	7:00 - 17:00	10.00	COMP	36	B	P		FRAC STG 6)WHP 610 PSI, BRK 1742 PSI @ 4.0 BPM. ISIP 1030 PSI, FG .60. CALC HOLES OPEN @ 50.1 BPM @ 5457 PSI = 62% HOLES OPEN. ISIP 2230 PSI, FG .80, NPI 1200 PSI. MP 6274 PSI, MR 50.4 BPM, AP 5850 PSI, AR 49.4 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5854' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 7)WHP 780 PSI, BRK 1841 PSI @ 3.7 BPM. ISIP 1212 PSI, FG .65 CALC HOLES OPEN @ 50.8 BPM @ 3411 PSI = 100% HOLES OPEN. ISIP 1672 PSI, FG .73, NPI 460 PSI. MP 4288 PSI, MR 51.5 BPM, AP 3345 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5658' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 8)WHP 675 PSI, BRK 1559 PSI @ 2.6 BPM. ISIP 953 PSI, FG .61 CALC HOLES OPEN @ 49.1 BPM @ 2761 PSI = 100% HOLES OPEN. ISIP 1434 PSI, FG .70, NPI 481 PSI. MP 4106 PSI, MR 51.1 BPM, AP 3345 PSI, AR 50.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL PU 4 1/2 8K HAL CBP & RIH SET @ 5339' POOH.SW TOTAL SAND = 197,220 # TOTAL TOTAL CLFL = 9,113 BBLs HSM, SLIPS, TRIPS & FALLS, WORKING AROUND WIRELINE
12/14/2011	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 11/17/2011		End Date: 12/20/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/NW/0/951/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	37		P		MIRU CASED HOLE RIH W/ 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING 4SPF & PERF 4 1/2" CSG @ 2,291' TO 2,292', POOH W/ WIRELINE, MIRU HALLIBURTON TO EST INJ RATE BREAK PRESS @ 950 PSI INJ RATE 850 PSI @ 1.5 BPM PUMPED 10 BBLS FLOWED BACK 1 BBL NO CIRC UP SURFACE CSG, RIH W/ CCR & SET W/ WIRELINE @ 2,250', POOH RD CASED HOLE, P/U STINGER, TALLY & PU TBG TO CCR, SPACE OUT W/ PUP JTS & STING INTO CCR, P/T HARD LINES TO 4,000 PSI, TBG TO 1,000 PSI, SHUT PIPE RAMS PRESS UP ANNULUS BETWEEN TBG & 4 1/2" TO 500 PSI, PUMP 10 BBLS FRESH WATER 1.5 BPM @ 800 PSI, MIX & PUMP 100 SX NEAT CMT 15.8#, DISPLACE W/ 6 BBLS FRESH WAIT 20 MIN ENDING PRESS 500 PSI, DISPLACE 1 BBL STARTING PRESS 230 PSI ENDING PRESS 575 PSI WAIT 20 MIN, DISPLACE 1 BBL STARTING PRESS 356 PSI ENDING PRESS 660 PSI WAIT 20 MIN, DISPLACE 1 BBL STARTING PRESS 481 PSI ENDING PRESS AFTER PUMPING 850 PSI, PULL OUT OF CCR, REVERSE CIRC 20 BBLS, RD HALLIBURTON, POOH W/ CCR STINGER & L/D, P/U 3 7/8" BIT, POBS & 1.875" XN S/N RIH W/ TBG TO D/O CCR & CMT IN AM, SWI, DRAIN UP & WINTERIZE EQUIP, SDFN.
12/15/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, PRESS TESTING, TRIPPING
	7:15 - 17:00	9.75	COMP	44	B	P		RU P/S, BREAK CIRC, D/O CCR & CMT FROM 2,248' TO 2,293' PUMP 25 BBLS TO CLEAN HOLE, POOH, P/T SQUEEZE JOB W/ B&C QUICK TEST PRESS UP TO 2,965 PSI SQUEEZE BROKE DOWN, MIRU CASED HOLE RUN CBL FROM 2,385' TO 2,200' HAD CMT BOND FROM 2,262' TO 2,324' RDMO, LOOKS LIKE SQUEEZE JOB BROKE DOWN @ 2,296' OR 2,288', INJ RATE W/ RIG PUMP APPROX 1 BPM @ 2,400 PSI & 1.5 BPM @ 2,600 PSI, RIH W/ CCR & SET @ 2,250' TO SQUEEZE CMT IN AM, SWI DRAIN UP & WINTERIZE EQUIP, SDFN.
12/16/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, PRESS TESTING, SQUEEZING CMT

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE

Spud Conductor: 8/31/2011

Spud Date: 9/9/2011

Project: UTAH-UINTAH

Site: BONANZA 1023-8L PAD

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 11/17/2011

End Date: 12/20/2011

Active Datum: RKB @5,313.00usft (above Mean Sea Level)

UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/N/0/951/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	COMP	51	B	P		MIRU PRO PETRO TO RESQUEEZE CMT INTO PERFS @ 2,291' TO 2,292', PRIME PUMPS & P/T LINES TO 2,500 PSI, EST INJ RATE 1,300 PSI @ 1 BPM PUMPED 3 BBLS, NO CIRC UP SURFACE CSG, SHUT PIPE RAMS PRESS UP ANNULUS BETWEEN TBG & 4 1/2" TO 500 PSI. PUMP 2 BBLS FRESH WATER @ 1 BPM @ 1,300 PSI, MIX & PUMP 50 SX NEAT CMT 15.9#, DISPLACE W/ 6 BBLS FRESH WAIT 20 MIN ENDING PRESS 730 PSI. DISPLACE 1 BBL @ 1/4 BPM STARTING PRESS 420 PSI ENDING PRESS 1,020 PSI, WAIT 20 MIN. DISPLACE 3/4 BBL @ 1/4 BPM STARTING PRESS 760 PSI PRESS BUILT TO 1,280 PSI AND BROKE BACK TO 1,000 PSI ENDING PRESS 1,000 PSI, WAIT 20 MIN. DISPLACE 3/4 BBL @ 1/4 BPM STARTING PRESS 525 PSI ENDING PRESS 1,250 PSI, WAIT 20 MIN. STARTING PRESS 1,108 PSI STARTED PUMPING CMT LOCKED PRESS UP TO 1,915 PSI & HELD. TOTAL DISPLACEMENT 8.25 BBLS OF FRESH, PULL OUT OF CCR W/ 1,915 PSI, REVERSE CIRC 15 BBLS, RD PRO PETRO, POOH W/ CCR STINGER & L/D, P/U 3 7/8" BIT, POBS & 1.875" XN S/N & RIH W/ TBG TO D/O CCR & CMT ON MONDAY, WAIT ON CMT, SWI, DRAIN UP & WINTERIZE EQUIP, SDFWE.
12/19/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, P/T, TRIPPING
	7:15 - 17:00	9.75	COMP	33	C	P		BREAK CIRC, D/O CCR & CMT FROM 2,248' TO 2,293' PUMP 25 BBLS TO CLEAN HOLE, POOH, P/T SQUEEZE JOB W/ B&C QUICK TEST TO 2,000 PSI FOR 15 MIN, LOST 21 PSI RDMO, MIRU CASEHOLE RUN CBL RDMO, P/U 3 7/8" BIT, POBS, XN S/N RIH W/ TBG & P/U OFF TRAILER REMOVE PROTECTORS, TALLY & DRIFT, TO KILL PLUG @ 5,339, RU P/S FILL TBG BREAK CIRC, P/T BOP TO 2,000 PSI FOR 15 MIN, LOST 0 PSI, READY FOR D/O IN AM, SWI, DRAIN & WINTERIZE EQUIP, SDFN.
12/20/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, D/O PLUGS, LANDING TBG

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011	Spud Date: 9/9/2011
Project: UTAH-UINTAH	Site: BONANZA 1023-8L PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 11/17/2011	End Date: 12/20/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/NW/0/951/0/0	

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		OPEN RAMS, D/O PLUGS, SURFACE CSG VALVE OPEN & LOCKED. C/O 10' SAND, TAG 1ST PLUG @ 5,339' DRL PLUG IN 9 MIN. 100 PSI INCREASE RIH, CSG PRESS 0 PSI. WELL NOT FLOWING. C/O 30' SAND, TAG 2ND PLUG @ 5,658' DRL PLUG IN 10 MIN. 100 PSI INCREASE RIH, CSG PRESS 0 PSI. WELL NOT FLOWING. C/O 25' SAND, TAG 3RD PLUG @ 5,854' DRL PLUG IN 11 MIN. 200 PSI INCREASE RIH, CSG PRESS 0 PSI. WELL NOT FLOWING. C/O 45' SAND, TAG 4TH PLUG @ 6,374' DRL PLUG IN 9 MIN. 300 PSI INCREASE RIH, CSG PRESS 50 PSI. WELL FLOWING ON IT'S OWN. C/O 25' SAND, TAG 5TH PLUG @ 7,070' DRL PLUG IN 8 MIN. 300 PSI INCREASE RIH, CSG PRESS 400 PSI. C/O 25' SAND, TAG 6TH PLUG @ 7,505' DRL PLUG IN 10 MIN. 200 PSI INCREASE RIH, CSG PRESS 300 PSI. C/O 15' SAND, TAG 7TH PLUG @ 7,704' DRL PLUG IN 9 MIN. 100 PSI INCREASE RIH, CSG PRESS 250 PSI. C/O 30' SAND, TAG 8TH PLUG @ 7,965' DRL PLUG IN 9 MIN. 300 PSI INCREASE RIH, CSG PRESS 350 PSI. PBTD @ 8,448', BTM PERF @ 8,223', RIH TO 8,362' NO TAG, 139' PAST BTM PERF W/ 263 JTS 2 3/8" L-80 TBG, LD 21 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 242 JTS 2 3/8" L-80, EOT 7,694.23'. P/T FLOWLINE TO HAL 9000 TO 2,500 PSI FOR 15 MIN, LOST 104 PSI, NO VISIBLE LEAKS. RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 3,000 PSI, LET BIT FALL FOR 20 MIN. TURN OVER TO FLOW BACK CREW. RD. KB= 14' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 283 JTS 242 JTS 2 3/8" L-80 = 7,677.20' TBG USED 242 JTS POBS= 2.20' TBG RETURNED 41 JTS

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 11/17/2011		End Date: 12/20/2011	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/NW/0/951/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								EOT @ 7,694.23'
								TWTR= 9,113 BBLS
								TWR= 1,600 BBLS
								TWLTR= 7,513 BBLS
12/21/2011	9:30 -		PROD	50				WELL TURNED TO SALES @ 930 HR ON 12/21/2011
								- 1700 MCFD, 1920 BWPD, FCP 2300#, FTP 1550#, 20/64" CK
12/30/2011	7:00 -		PROD	50				WELL IP'D ON 12/30/11 - 2342 MCFD, 0 BOPD, 600 BWPD, CP 180 #, FTP 165#, CK 20/64", LP 85#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023-8K4CS BLUE	Wellbore No.	OH
Well Name	BONANZA 1023-8K4CS	Common Name	BONANZA 1023-8K4CS
Project	UTAH-UINTAH	Site	BONANZA 1023-8L PAD
Vertical Section Azimuth	116.59 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	9/9/2011	UWI	NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/95 1/0/0
Active Datum	RKB @5,313.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

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

2.1.1 Tie On Point

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

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/9/2011	Tie On	10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/9/2011	NORMAL	189.00	0.26	309.11	189.00	0.26	-0.32	-0.40	0.15	0.15	0.00	309.11
	NORMAL	273.00	1.14	129.02	272.99	-0.15	0.19	0.23	1.67	1.05	214.18	179.93
	NORMAL	357.00	2.99	112.94	356.94	-1.53	2.85	3.24	2.29	2.20	-19.14	-25.54
	NORMAL	447.00	5.01	113.20	446.71	-3.99	8.63	9.50	2.24	2.24	0.29	0.64
	NORMAL	537.00	7.14	117.85	536.20	-8.15	17.19	19.02	2.43	2.37	5.17	15.33
	NORMAL	627.00	8.64	118.40	625.35	-13.98	28.08	31.37	1.67	1.67	0.61	3.15
	NORMAL	717.00	10.66	117.36	714.07	-21.02	41.42	46.45	2.25	2.24	-1.16	-5.45
	NORMAL	807.00	12.05	117.65	802.31	-29.21	57.13	64.17	1.55	1.54	0.32	2.49
	NORMAL	897.00	13.59	118.23	890.06	-38.57	74.77	84.13	1.72	1.71	0.64	5.06
	NORMAL	987.00	15.19	115.96	977.24	-48.74	94.69	106.49	1.88	1.78	-2.52	-20.52
	NORMAL	1,077.00	16.85	117.75	1,063.74	-59.97	116.84	131.32	1.92	1.84	1.99	17.43
	NORMAL	1,167.00	17.94	116.48	1,149.62	-72.23	140.79	158.23	1.28	1.21	-1.41	-19.81
	NORMAL	1,257.00	19.13	114.75	1,234.95	-84.58	166.59	186.83	1.46	1.32	-1.92	-25.63
	NORMAL	1,347.00	20.71	113.82	1,319.56	-97.18	194.54	217.47	1.79	1.76	-1.03	-11.78
	NORMAL	1,437.00	21.42	114.27	1,403.55	-110.36	224.08	249.78	0.81	0.79	0.50	13.04
	NORMAL	1,527.00	21.03	118.04	1,487.45	-124.71	253.32	282.35	1.58	-0.43	4.19	107.70
9/10/2011	NORMAL	1,617.00	21.85	118.19	1,571.22	-140.22	282.33	315.23	0.91	0.91	0.17	3.90

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 (°)
9/10/2011	NORMAL	1,707.00	22.34	116.79	1,654.61	-155.84	312.36	349.08	0.80	0.54	-1.56	-47.71
	NORMAL	1,797.00	22.59	116.20	1,737.78	-171.18	343.14	383.47	0.37	0.28	-0.66	-42.32
	NORMAL	1,887.00	23.36	114.49	1,820.64	-186.21	374.89	418.59	1.13	0.86	-1.90	-41.71
	NORMAL	1,977.00	22.48	116.77	1,903.54	-201.35	406.49	453.63	1.39	-0.98	2.53	135.79
	NORMAL	2,067.00	22.93	115.86	1,986.56	-216.75	437.63	488.36	0.63	0.50	-1.01	-38.39
	NORMAL	2,157.00	22.47	114.50	2,069.59	-231.53	469.06	523.08	0.78	-0.51	-1.51	-131.86
	NORMAL	2,247.00	21.88	113.89	2,152.93	-245.45	500.04	557.02	0.70	-0.66	-0.68	-158.96

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	SCIENTIFIC DRILLING
Started	10/1/2011	Ended	
Tool Name	MWD	Engineer	DAN CHAMBLEE/MATT SCHLAEGEL

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,247.00	21.88	113.89	2,152.93	-245.45	500.04

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 (°)
10/1/2011	Tie On	2,247.00	21.88	113.89	2,152.93	-245.45	500.04	557.02	0.00	0.00	0.00	0.00
10/1/2011	NORMAL	2,297.00	21.30	110.67	2,199.43	-252.43	517.06	575.36	2.64	-1.16	-6.44	-117.57
	NORMAL	2,392.00	20.63	108.86	2,288.14	-263.93	549.04	609.11	0.98	-0.71	-1.91	-136.82
	NORMAL	2,486.00	20.52	112.45	2,376.15	-275.58	579.94	641.95	1.35	-0.12	3.82	96.66
	NORMAL	2,581.00	19.88	112.62	2,465.30	-288.15	610.24	674.67	0.68	-0.67	0.18	174.84
	NORMAL	2,676.00	19.70	116.86	2,554.70	-301.60	639.43	706.80	1.52	-0.19	4.46	99.14
	NORMAL	2,770.00	21.81	116.40	2,642.59	-316.52	669.21	740.11	2.25	2.24	-0.49	-4.63
	NORMAL	2,865.00	22.98	117.99	2,730.43	-333.07	701.40	776.30	1.39	1.23	1.67	28.11
	NORMAL	2,959.00	22.82	117.53	2,817.02	-350.11	733.76	812.87	0.26	-0.17	-0.49	-132.00
	NORMAL	3,054.00	20.99	116.53	2,905.16	-366.23	765.33	848.30	1.97	-1.93	-1.05	-168.94
	NORMAL	3,148.00	19.94	119.79	2,993.22	-381.71	794.30	881.14	1.65	-1.12	3.47	134.17
	NORMAL	3,243.00	19.87	121.58	3,082.55	-398.21	822.11	913.40	0.65	-0.07	1.88	97.39
	NORMAL	3,338.00	18.92	119.45	3,172.16	-414.24	849.28	944.87	1.25	-1.00	-2.24	-144.33
	NORMAL	3,432.00	18.69	119.83	3,261.14	-429.23	875.62	975.13	0.28	-0.24	0.40	152.14
	NORMAL	3,527.00	18.92	119.86	3,351.07	-444.47	902.18	1,005.70	0.24	0.24	0.03	2.42
	NORMAL	3,621.00	18.42	122.38	3,440.12	-460.01	927.94	1,035.69	1.01	-0.53	2.68	122.98
	NORMAL	3,716.00	17.93	118.72	3,530.39	-475.07	953.44	1,065.24	1.31	-0.52	-3.85	-114.96
	NORMAL	3,810.00	17.12	118.28	3,620.02	-488.58	978.31	1,093.53	0.87	-0.86	-0.47	-170.92
	NORMAL	3,905.00	18.42	115.68	3,710.49	-501.71	1,004.15	1,122.51	1.60	1.37	-2.74	-32.64
	NORMAL	3,999.00	20.23	110.48	3,799.20	-513.83	1,032.77	1,153.53	2.66	1.93	-5.53	-46.03
	NORMAL	4,094.00	17.15	108.98	3,889.18	-524.14	1,061.41	1,183.75	3.28	-3.24	-1.58	-171.84
	NORMAL	4,189.00	16.05	108.73	3,980.22	-532.91	1,087.09	1,210.64	1.16	-1.16	-0.26	-176.40
	NORMAL	4,283.00	16.65	109.99	4,070.42	-541.69	1,112.05	1,236.89	0.74	0.64	1.34	31.20
	NORMAL	4,378.00	14.97	110.19	4,161.82	-550.58	1,136.36	1,262.61	1.77	-1.77	0.21	178.24
	NORMAL	4,472.00	11.85	110.81	4,253.24	-558.20	1,156.78	1,284.28	3.32	-3.32	0.66	177.66
10/2/2011	NORMAL	4,567.00	9.86	112.16	4,346.54	-564.73	1,173.43	1,302.10	2.11	-2.09	1.42	173.38
	NORMAL	4,661.00	7.47	129.93	4,439.48	-571.69	1,185.58	1,316.07	3.79	-2.54	18.90	140.31
	NORMAL	4,756.00	5.46	149.50	4,533.88	-579.55	1,192.61	1,325.88	3.11	-2.12	20.60	141.82
	NORMAL	4,850.00	3.37	161.17	4,627.60	-586.02	1,195.77	1,331.60	2.41	-2.22	12.41	162.49
	NORMAL	4,945.00	3.12	180.63	4,722.45	-591.25	1,196.64	1,334.72	1.18	-0.26	20.48	112.38

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 (°)
10/2/2011	NORMAL	5,040.00	1.29	199.20	4,817.37	-594.84	1,196.26	1,335.99	2.04	-1.93	19.55	167.78
	NORMAL	5,134.00	1.59	321.94	4,911.36	-594.81	1,195.11	1,334.95	2.69	0.32	130.57	148.11
	NORMAL	5,229.00	2.74	326.73	5,006.29	-591.88	1,193.05	1,331.79	1.22	1.21	5.04	11.34
	NORMAL	5,323.00	1.94	320.33	5,100.21	-588.78	1,190.80	1,328.39	0.89	-0.85	-6.81	-165.09
	NORMAL	5,418.00	1.12	312.21	5,195.18	-586.91	1,189.09	1,326.03	0.89	-0.86	-8.55	-169.22
	NORMAL	5,512.00	0.97	326.94	5,289.16	-585.63	1,187.97	1,324.45	0.33	-0.16	15.67	126.41
	NORMAL	5,607.00	0.73	330.21	5,384.15	-584.43	1,187.23	1,323.26	0.26	-0.25	3.44	170.20
	NORMAL	5,702.00	1.96	312.15	5,479.12	-582.81	1,185.73	1,321.19	1.35	1.29	-19.01	-28.19
	NORMAL	5,796.00	1.81	309.09	5,573.07	-580.80	1,183.39	1,318.19	0.19	-0.16	-3.26	-147.66
	NORMAL	5,891.00	1.76	305.14	5,668.03	-579.01	1,181.03	1,315.28	0.14	-0.05	-4.16	-114.08
	NORMAL	5,985.00	1.19	301.40	5,761.99	-577.67	1,179.01	1,312.88	0.61	-0.61	-3.98	-172.28
	NORMAL	6,080.00	1.18	302.41	5,856.97	-576.64	1,177.35	1,310.93	0.02	-0.01	1.06	116.09
	NORMAL	6,174.00	0.91	302.96	5,950.96	-575.71	1,175.90	1,309.22	0.29	-0.29	0.59	178.15
	NORMAL	6,269.00	0.50	265.00	6,045.95	-575.34	1,174.86	1,308.12	0.63	-0.43	-39.96	-149.19
	NORMAL	6,363.00	0.64	345.56	6,139.95	-574.86	1,174.32	1,307.42	0.79	0.15	85.70	122.03
	NORMAL	6,458.00	0.74	357.74	6,234.94	-573.74	1,174.16	1,306.78	0.19	0.11	12.82	61.91
	NORMAL	6,553.00	1.01	16.23	6,329.93	-572.32	1,174.37	1,306.33	0.41	0.28	19.46	55.78
	NORMAL	6,647.00	1.18	7.65	6,423.91	-570.57	1,174.73	1,305.87	0.25	0.18	-9.13	-48.31
	NORMAL	6,742.00	1.30	313.49	6,518.89	-568.86	1,174.08	1,304.52	1.19	0.13	-57.01	-111.67
	NORMAL	6,836.00	1.17	287.97	6,612.87	-567.83	1,172.39	1,302.55	0.60	-0.14	-27.15	-115.84
	NORMAL	6,931.00	0.88	276.58	6,707.86	-567.44	1,170.75	1,300.91	0.37	-0.31	-11.99	-150.51
	NORMAL	7,025.00	0.97	251.09	6,801.85	-567.62	1,169.28	1,299.67	0.44	0.10	-27.12	-90.60
	NORMAL	7,120.00	1.14	235.07	6,896.83	-568.42	1,167.74	1,298.66	0.36	0.18	-16.86	-68.21
	NORMAL	7,120.00	1.14	225.07	6,896.83	-568.42	1,167.74	1,298.66	0.00	0.00	0.00	0.00
	NORMAL	7,215.00	1.14	218.81	6,991.81	-569.82	1,166.48	1,298.16	0.13	0.00	-6.59	-93.13
	NORMAL	7,311.00	0.66	228.91	7,087.80	-570.93	1,165.46	1,297.75	0.52	-0.50	10.52	166.72
10/3/2011	NORMAL	7,406.00	0.97	294.68	7,182.79	-570.95	1,164.32	1,296.73	0.97	0.33	69.23	106.49
	NORMAL	7,500.00	0.70	316.65	7,276.78	-570.20	1,163.20	1,295.40	0.44	-0.29	23.37	140.78
	NORMAL	7,595.00	0.35	324.92	7,371.78	-569.55	1,162.64	1,294.60	0.38	-0.37	8.71	171.90
	NORMAL	7,689.00	0.42	261.70	7,465.77	-569.36	1,162.13	1,294.06	0.43	0.07	-67.26	-113.21
	NORMAL	7,784.00	0.44	203.89	7,560.77	-569.74	1,161.64	1,293.80	0.44	0.02	-60.85	-116.49
	NORMAL	7,878.00	0.62	174.09	7,654.77	-570.58	1,161.55	1,294.09	0.34	0.19	-31.70	-72.35
	NORMAL	7,973.00	1.41	176.03	7,749.75	-572.26	1,161.68	1,294.96	0.83	0.83	2.04	3.46
	NORMAL	8,067.00	1.76	165.31	7,843.72	-574.81	1,162.13	1,296.50	0.49	0.37	-11.40	-45.71
	NORMAL	8,162.00	2.16	148.02	7,938.66	-577.74	1,163.44	1,298.99	0.75	0.42	-18.20	-64.77
	NORMAL	8,256.00	2.31	154.59	8,032.59	-580.95	1,165.20	1,301.99	0.32	0.16	6.99	62.96
	NORMAL	8,351.00	3.26	167.25	8,127.48	-585.31	1,166.61	1,305.21	1.19	1.00	13.33	39.35
	NORMAL	8,454.00	3.52	161.63	8,230.30	-591.17	1,168.26	1,309.30	0.41	0.25	-5.46	-54.79
	NORMAL	8,509.00	3.52	161.63	8,285.19	-594.38	1,169.32	1,311.69	0.00	0.00	0.00	0.00

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

FORM 6

ENTITY ACTION FORM

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

Well 1

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

Well 2

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

Well 3

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

ACTION CODES:

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

RECEIVED

MAY 21 2012

Div. of Oil, Gas & Mining

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

Title

5/21/2012

Date

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

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

✱ not moved in unit

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

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

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

★ not moved into unit

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

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:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: PONDEROSA			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-8K4CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2225 FSL 0951 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 08 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047511520000			
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH			
TYPE OF SUBMISSION ☐ NOTICE OF INTENT Approximate date work will start: ☒ SUBSEQUENT REPORT Date of Work Completion: 6/16/2014 ☐ SPUD REPORT Date of Spud: ☐ DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> ☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> ☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☒ OTHER </td> <td style="width: 33%; vertical-align: top;"> ☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: WELLBORE CLEANOUT </td> </tr> </table>		☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☒ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: WELLBORE CLEANOUT
☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS ☐ DEEPEN ☐ OPERATOR CHANGE ☐ PRODUCTION START OR RESUME ☐ REPERFORATE CURRENT FORMATION ☐ TUBING REPAIR ☐ WATER SHUTOFF ☐ WILDCAT WELL DETERMINATION	☐ ALTER CASING ☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS ☐ FRACTURE TREAT ☐ PLUG AND ABANDON ☐ RECLAMATION OF WELL SITE ☐ SIDETRACK TO REPAIR WELL ☐ VENT OR FLARE ☐ SI TA STATUS EXTENSION ☒ OTHER	☐ CASING REPAIR ☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON ☐ WATER DISPOSAL ☐ APD EXTENSION OTHER: WELLBORE CLEANOUT			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE OPERATOR HAS COMPLETED THE FOLLOWING WORKOVER-WELLBORE CLEANOUT ON THE SUBJECT WELL ON 06/16/2014. SEE ATTACHED OPERATIONS SUMMARY REPORT. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 11, 2014					
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II			
SIGNATURE N/A	DATE 6/19/2014				

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE				Spud Conductor: 8/31/2011				Spud Date: 9/9/2011			
Project: UTAH-UINTAH				Site: BONANZA 1023-8L PAD				Rig Name No: SWABBCO 10/10			
Event: WELL WORK EXPENSE				Start Date: 5/29/2014				End Date: 6/16/2014			
Active Datum: RKB @5,313.00usft (above Mean Sea Level)				UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
5/29/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.			
	7:15 - 14:30	7.25	WO/REP	30		P		ROAD RIG TO LOCATION. MIRU. BLOW DOWN WELL TO PRODUCTION TANKS. CNTRL TBG W/ 20BBLS TMAC. CNTRL CSG W/ 20BBLS TMAC. NDWH. UN-LAND WELL TO CHECK IF TBG STUCK. TBNG WAS STUCK. STRIP IN 6' TBG SUB. RE-LAND WELL ON HANGER. NUBOP. R/U FLOOR & TBG EQUIP. UN-LAND WELL. P/U JT OF 2-3/8" L-80 TBNG. INSTALL STRIPPING RUBBER. WORK STUCK PIPE. NO MOVEMENT IN TBNG. STRETCH CALCULATION SAYS TBG STUCK & +/- 7000'. CALL FOR WIRELINE.			
	14:30 - 16:45	2.25	WO/REP	34		P		MIRU WIRELINE. RIH W/ STUCK PIPE LOGGING TOOLS. STACK OUT INSIDE OF TBG @7416'. RUN STUCK PIPE LOG UP HOLE TO 5400'. TBG STUCK FROM 7416' UP HOLE TO 7350'. EOT @ 7686'. SPEAK W/ ENGINEERING & DECIDE TO CUT TBNG @7308'. RIH W/ JET CUTTER & CUT TBG & 7308. POOH W/ WIRELINE TOOLS. RDMO WIRELINE.			
	16:45 - 17:00	0.25	WO/REP	31		P		POOH W/ 4JTS TBNG. SHUT IN TBNG. TURN CSG TO SALES. SDFN.			
5/30/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.			
	7:15 - 10:30	3.25	WO/REP	31		P		FCP= 80#. SITP= 20#. BLOW DOWN WELL. CNTRL TBG W/ 10BBLS TMAC. RIH W/ 2STANDS OF TBNG THAT WERE POOH AFTER TBNG CUT. MIRU SCANNERS. POOH WHILE SCANNING 230JTS 2-3/8" L-80 TBNG. SCAN RESULTS AS FOLLOWS: 168JTS 2-3/8" L-80 Y-BND TBG 33JTS 2-3/8" L-80 B-BND TBG. DUE TO MINOR PITTING AND WALL LOSS. 29JTS 2-3/8" L-80 R-BND TBG. JT#202 TO JT# 230 WAS THE WORST INTERVAL FOR WALL LOSS & PITTING. BAD EXTERNAL PITTING & INTERNAL PITTING ON THE PINS. JT #230 WAS THE CUT JT. FISH TOP IS AN 8' STUMP STICKING UP WITH TBNG BODY LOOKING @ US.			
	10:30 - 11:30	1.00	WO/REP	30		P		NOTE: 3-7/8" TOOLS WILL NOT GO THRU WEATHERFORD HEAD. SO R/D FLOOR & TBNG EQUIP. CNTRL CSG W/ 25BBLS TMAC. NDBOP. N/D TBNG HEAD TO SPOOL PIECE. NUBOP. R/U FLOOR & TBNG EQUIP.			

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD			Rig Name No: SWABBCO 10/10
Event: WELL WORK EXPENSE		Start Date: 5/29/2014		End Date: 6/16/2014	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:30 - 15:00	3.50	WO/REP	31	B	P		P/U & RIH W/ FISHING TOOLS AS FOLLOWS: 2-3/8" L-80 PUP JT= 6.12' 2-3/8" EUE TO 2-3/8" REG X/O =.83' 3-1/8" INTENSIFIER= 8.57' 4) 3-1/8" DRILL COLLARS = 125.21' 3-1/8" JARS= 10.84' 3-1/8" BUMPER SUB= 8.00' TOP BUSHING= 3.81' 6JTS 3-3/4" WASH PIPE =188.38' 3-7/8" WASH OVER SHOE = 2.00' TOTAL BHA = 351.27' TALLY + RIH W/ 157JTS 2-3/8" L-80 Y-BND TBNG. LEAVE EOT @ 5338' (ABOVE PERFS). SWIFWE.SDFWE. SAFETY = JSA.
6/2/2014	7:00 - 7:15	0.25	WO/REP	48		P		
	7:15 - 9:00	1.75	WO/REP	31		P		SICP= 400#. SITP= 100#. BLOW DOWN WELL TO FLOWBACK TANK. CNTRL TBG W/ 20BBLs TMAC. CONT P/U & RIH W/ TBNG TO 7208'. +/- 100' ABOVE FISH TOP. R/U POWER SWIVEL. MIRU FOAM AIR UNIT.
	9:00 - 9:45	0.75	WO/REP	31	H	P		BREAK CONV CIRCULATION W/ FOAM-AIR UNIT IN 45MIN.
	9:45 - 18:00	8.25	WO/REP	31	B	P		CONT RIH W/ TBNG. T/U ON FISH TOP @7308' W/ 220JTS 2-3/8" L-80 TBNG + FISHING BHA. START WASHING OVER FISH. T/U ON HEAVY SCALE @ 7380'. CONT WASHING OVER FISH UNTIL WE STACKED OUT ON TOP SUB @7490'. CIRC WELL CLEAN FOR 45MIN. L/D 5JTS TBNG. POOH W/ REMAINING 220JTS & FISHING BHA. P/U & RIH W/ EXTERNAL CUTTER + 6JTS 3-3/4" WASH PIPE + 40JTS TBNG. SWIFN. SDFN.
6/3/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.
	7:15 - 17:30	10.25	WO/REP	31	B	P		SICP= 450#. SITP= 450#. BLOW DOWN WELL CNTRL TBG W/ 15BBLs TMAC. INSTALL WASHINGTON RUBBER. CONT RIH W/ EXT CUTTER, WASH PIPE & TBNG. T/U ON FISH TOP @ 7308' W/ 224JTS 2-3/8" L-80 TBNG + BHA. WORK CUTTER OVER FISH TOP. CONT RIH. T/U @7490' W/ 230JTS TBNG +BHA. R/U POWER SWIVEL. P/U TO TBNG COLLAR @ 7468' & ACTIVATE CUTTER BLADES. DROP DOWN 7' & CUT TBNG @ 7475'. POOH W/ TBNG, TOOLS & FISH. L/D FISH. RECOVERED 5 FULL JTS OF TBNG, 8' TBNG STUB & 7' TBNG STUB. P/U & RIH W/ 3-7/8" WASH OVER SHOE, 6JTS 3-3/4" WASH PIPE, 4) 3-1/8" COLLARS, JARS,BUMPER SUB, INTENSIFIERS & 90JTS 2-3/8" L-80 TBNG. LEAVE EOT @ 3210'. SWIFN. SDFN.
6/4/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE		Spud Conductor: 8/31/2011		Spud Date: 9/9/2011	
Project: UTAH-UINTAH		Site: BONANZA 1023-8L PAD			Rig Name No: SWABBCO 10/10
Event: WELL WORK EXPENSE		Start Date: 5/29/2014		End Date: 6/16/2014	
Active Datum: RKB @5,313.00usft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 8:30	1.25	WO/REP	31	B	P		SICP= 300#. SITP= 300#. BLOW DOWN WELL. CNTRL TBG W/ 10BBLs TMAC. OPEN CSG TO FLOWBACK TANK. CONT RIH W/ WASH PIPE & 3-7/8" SHOE + FISHING BHA + TBNG. T/U ON FISH TOP @ 7475' W/ 225JTS TBNG + BHA. R/U POWER SWIVEL. R/U FOAM-AIR UNIT.
	8:30 - 9:15	0.75	WO/REP	31	H	P		BREAK CONVENTIONAL CIRC W/ FOAM-AIR UNIT. 45MIN.
	9:15 - 13:00	3.75	WO/REP	31	B	P		BEGIN WASHING OVER FISH. WASH DOWN TO 7700' (FISH FELL DOWN HOLE). CONT RIH W/ TBNG. WASH DOWN & SWIVEL IN EVERY CONNECTION. T/U ON FISH TOP @8191'. WASH OVER FISH W/ TOTAL OF 253JTS TBNG + BHA. END OF WASH PIPE @8381'. END OF FISH @ 8401'. CIRC WELL CLEAN FOR 45MIN. NOTE: RIH W/ 10JTS AT A TIME & THEN POOH & TO REMOVE STRING FLOAT. RE-INSTALL FLOAT & WASH DOWN NEXT 10 JTS. ETC. NOTE: SCALE & IRON SULFIDE IN RETURNS. SAMPLES GATHERED FOR ENGINEER.
	13:00 - 19:00	6.00	WO/REP	31	I	P		R/D POWER SWIVEL. PUMP 20BBL TOP KILL DOWN TBNG. L/D 1JT TBNG. POOH W/ 100JTS TBNG. LEAVE EOT @5148' W/ 151JTS TBNG + BHA IN THE HOLE. SWIFN. SDFN.
6/5/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY =JSA.
	7:15 - 9:00	1.75	WO/REP	31	I	P		SICP= 750#. SITP= 500#. BLOW DOWN CSG TO FLOWBACK TANK. CNTRL TBNG W/ 20BBLs TMAC. FINISH POOH W/ REMAINING 151JTS 2-3/8" L-80 TBNG & FISHING BHA. L/D WASHOVER SHOE.
	9:00 - 18:00	9.00	WO/REP	31	B	P		P/U SPRING DOG FISHING TOOL. TIH W/ SPRING DOG, 6JTS 3-3/4" WASH PIPE, 4 DRILL COLLARS, BUMPER SUB, JARS, INTENSIFIERS & 2-3/8" L-80 Y-BND TBNG. T/U ON FISH TOP @8191'. WORK TOOL OVER FISH TOP. SWALLOW FISH W/ TOTAL OF253JTS OF TBNG + BHA. JAR FISH OFF BOTTOM. L/D 17JTS OF TBNG NOT NEEDED FOR PRODUCTION. POOH W/ TBNG. STAND BACK 236JTS 2-3/8" L-80 Y-BND TBNG NEEDED FOR PRODUCTION. L/D FISHING BHA. REMOVE REMAINING 6JTS OF JUNK TBNG (FISH) FROM INSIDE OF WASH PIPE. L/D WASH PIPE. SWIFN.SDFN. NOTE: ALL TBNG (FISH) RECOVERED. WELL CLEANED OUT TO 8401' PBTD W/ FOAM-AIR UNIT.
6/9/2014	7:00 - 7:15	0.25	MAINT	48		P		JSA-SAFETY MEETING
	7:15 - 9:00	1.75	MAINT	30	F	P		200# ON WELL, BLOW WELL DN, PUMP 40 BBLs WTR DN WELL TO CONTROL WELL, N/D BOPS, N/U TBGT HEAD AND BOPS,
	9:00 - 11:30	2.50	MAINT	31	I	P		P/U XN-NIPPLE RIH W/ 2 3/8" L-80 TBG, BROACH TBG IN HOLE, LAND TBG W/ 236 JTS @ 7500', N/D BOPS, N/U WH, SHUT WELL IN, R/D UNIT MOVE OVER TO 8L,

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-8K4CS BLUE				Spud Conductor: 8/31/2011				Spud Date: 9/9/2011				
Project: UTAH-UINTAH				Site: BONANZA 1023-8L PAD					Rig Name No: SWABBCO 10/10			
Event: WELL WORK EXPENSE				Start Date: 5/29/2014						End Date: 6/16/2014		
Active Datum: RKB @5,313.00usft (above Mean Sea Level)					UWI: NW/SW/0/10/S/23/E/8/0/0/26/PM/S/2225/W/0/951/0/0							
Date	Time Start-End		Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
6/12/2014	7:00	- 12:00	5.00	MAINT	42		P		ALFONZO, 7 RUNS 42 BBLS			
6/13/2014	7:00	- 12:00	5.00	MAINT	42		P		ALFONZO, 6 RUNS 37 BBLS			
6/16/2014	7:00	- 11:00	4.00	MAINT	35		P		RIH with broach to 7485'. Set BS @ 7485'. Dropped viper plunger and RTP. Casing 890 PSI and Tubing 460 PSI			

Effective Date: 6/30/2020

FORMER OPERATOR:	NEW OPERATOR:
Kerr-McGee Oil and Gas Onshore, L.P.	Caerus Uinta, LLC
Groups: 10/9/2020 sent list to operators to review.	

WELL INFORMATION:

Well Name	API Number	Town	Dir	Range	Dir	Sec	Entity Number	Type	Status
See Attached list									

Total Well Count: 3508
Pre-Notice Completed: 11/10/2020

OPERATOR CHANGES DOCUMENTATION:

- 1. Sundry or legal documentation was received from the FORMER operator on: 8/11/2020
- 2. Sundry or legal documentation was received from the NEW operator on: 8/11/2020
- 3. New operator Division of Corporations Business Number: 11801118-0161

REVIEW:

Receipt of Acceptance of Drilling Procedures for APD on: 10/16/2020
Reports current for Production/Disposition & Sundries: 11/10/2020
OPS/SI/TA well(s) reviewed for full cost bonding: Approved by Dustin 11/9/2020
UIC5 on all disposal/injection/storage well(s) Approved on: Approved by Dayne 10/16/2020
Surface Facility(s) included in operator change:

- East Bench
- Archie Bench
- Bonanza
- Bridge
- Goat Pasture
- Goat Pasture Manifold
- Morgan State 921-36P
- Morgan States
- NBU 1022-14B
- NBU 921-25A
- NBU 922-29J
- NBU 922-32N
- Pipeline
- Sage Grouse
- Sand Wash

NEW OPERATOR BOND VERIFICATION:

State/fee well(s) covered by Bond Number(s): 6135000111
LPM9344488-Shut-In Bond

DATA ENTRY:

Well(s) update in the RBDMS on: 11/19/2020
Group(s) update in RDBMS on: 11/19/2020
Surface Facilities update in RBDMS on: 11/19/2020
Entities Updated in RBDMS on: 11/19/2020

COMMENTS: Shut-In Wells that were reviewed.

- CIGE 236 4304732861
- CIGE 42 4304730492
- CIGE 55 4304730512
- Love 1121-16N 4304736256
- Morgan State 16-36 4304733093
- NBU 341-29E 4304733055
- NBU 691-29E 4304750027
- NBU 921-33F 4304736391
- NBU 99 4304731745
- Ouray SWD 1 4304733449
- State 1022-32O 4304735315
- State 921-32M 4304734872

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.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
CAERUS UINTA LLC

3. ADDRESS OF OPERATOR:
1001 17TH ST. STE 1600 CITY DENVER STATE CO ZIP 80202

PHONE NUMBER:
303-565-4600

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1162 FSL 1365 FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 10S 21E S

STATE: UTAH

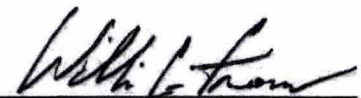
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☒ NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 06/30/2020	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
☐ SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☒ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: Transfer remediation liabilities
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective June 30, 2020, operation of the following wells was taken over by:
Caerus Uinta LLC
1001 17th Street, Suite 1600
Denver, CO 80202
303-565-4600

The previous Operator was Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779


William C. Irons
Attorney-in-Fact

Please see the attached wells for a complete list that will be transferred upon approval. As the Attorney-in-Fact for Kerr-McGee Oil & Gas Onshore LP I ask that you accept this letter as Kerr-McGee's official resignation and request to transfer operating rights to Caerus Uinta LLC, whose operator number is 105039. UDOGM Bond# 6135000111 and BLM Bond# COB000387.

Kerr-McGee will be transferring cleanup/soils remediation to Caerus Uinta LLC for Incident #5772. The new contact for Caerus is Grizz Oleen, EHS Field Lead (435) 790-9669.

NAME (PLEASE PRINT) Aubree Besant TITLE Director of Land
SIGNATURE _____ DATE _____

(This space for State use only)

APPROVED

By: Rachel Medina
Utah Division of
Oil, Gas, and Mining

(5/2000)

(See Instructions on Reverse Side)

RECEIVED

AUG 11 2020

DIV OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5. LEASE DESIGNATION AND SERIAL NUMBER:
U-02278-ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER _____

8. WELL NAME and NUMBER:
CIGE 20

2. NAME OF OPERATOR:
CAERUS UINTA LLC

9. API NUMBER:
43047304850000

3. ADDRESS OF OPERATOR:
1001 17TH ST. STE 1600 CITY DENVER STATE CO ZIP 80202 PHONE NUMBER: 303-565-4600

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1162 FSL 1365 FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 10S 21E S

STATE: UTAH

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Attorney-in-Fact

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NAME (PLEASE PRINT) Aubree Besant

TITLE Director of Land

SIGNATURE

DATE

July 17, 2020

RECEIVED

(This space for State use only)

APPROVED

By: Rachel Medina
Utah Division of
Oil, Gas, and Mining

AUG 11 2020

DIV OF OIL, GAS & MINING



October 2, 2025

Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple
Suite 1210
Salt Lake City, UT 84116
Attn: MykelLynn Bryson

RE: Notice of Name Change – Caerus Uinta, LLC

To Whom It May Concern:

Effective September 1, 2025, Caerus Uinta, LLC has changed its name to **KODA GNB, LLC**. KODA Uinta, LLC remains a wholly owned subsidiary of KODA Holdings, LLC.

This is a name change only; there is no change to addresses, tax identification numbers, or bank accounts.

Enclosed for your processing and records are the following:

1. Delaware Secretary of State Name Change Certificate
2. Updated W9 showing name change
3. Name Change Rider B014249 - Blanket Bond
4. Name Change Rider 612418229 - Blanket Idle well Bond
5. Name Change Rider B013581 – Pipeline Pit 1 & 2
6. Name Change Rider B013582 – Bonanza Pit 1 & 2
7. Name Change Rider B013583 – Goat Pasture Pit 1 & 2

Please feel free to contact me at aly.schuster@kodaresources.com or 720-500-0140 should you have any questions or need any additional information.

Sincerely,
KODA GNB, LLC

A handwritten signature in blue ink, appearing to read "Aly Schuster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Aly Schuster
Senior Landman

Enclosure

1401 Wynkoop St, Suite 300
Denver, CO 80202

owners@kodaresources.com | www.kodaresources.com

Delaware

The First State

Page 1

*I, CHARUNI PATIBANDA-SANCHEZ, SECRETARY OF STATE OF THE
STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND
CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "CAERUS UINTA
LLC", CHANGING ITS NAME FROM "CAERUS UINTA LLC" TO "KODA GNB,
LLC", FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF AUGUST,
A.D. 2025, AT 9:14 O'CLOCK P.M.*



7877090 8100
SR# 20253839085

You may verify this certificate online at corp.delaware.gov/authver.shtml

A handwritten signature in cursive script, reading "C. B. Sanchez".

Charuni Patibanda-Sanchez, Secretary of State

Authentication: 204623735
Date: 09-02-25

State of Delaware
Secretary of State
Division of Corporations
Delivered 09:11 PM 08/29/2025
FILED 09:14 PM 08/29/2025
SR 20253839085 - File Number 7877090

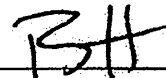
STATE OF DELAWARE CERTIFICATE OF AMENDMENT

1. Name of Limited Liability Company: Caerus Uinta LLC
2. The Certificate of Formation of the limited liability company is hereby amended as follows:

The name of the limited liability company is: KODA
GNB, LLC.

IN WITNESS WHEREOF, the undersigned have executed this Certificate on
the 29th day of August, A.D. 2025.

By: _____



Authorized Person(s)

Name: Ryan Midgett

Print or Type