

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 1023-614S		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 38419		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2078 FSL 967 FEL	NESE	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	1575 FSL 85 FEL	NESE	6	10.0 S	23.0 E	S
At Total Depth	1575 FSL 85 FEL	NESE	6	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 85		23. NUMBER OF ACRES IN DRILLING UNIT 516		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 510		26. PROPOSED DEPTH MD: 8544 TVD: 8300		
27. ELEVATION - GROUND LEVEL 5184		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

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

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

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 06/02/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047504580000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8544		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	8544	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2120		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2120	36.0			



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-6I Pad

Bonanza 1023-6I4S

Bonanza 1023-6I4S

Plan: PLAN #2

Standard Planning Report

11 February, 2009



Weatherford®



WELL DETAILS: Bonanza 1023-614S						
+N/-S	+E/-W	Northing	Ground Level: Easting	5181.00	Latitude	Longitude
0.00	0.00	14521671.49	2099070.99	39° 58' 35.141 N	109° 21' 46.411 W	Slot

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3329.68	39.89	119.64	3224.84	-219.79	386.33	3.00	119.64	444.48	
3387.50	39.89	119.64	3269.20	-238.13	418.56	0.00	0.00	481.56	
4983.12	0.00	0.00	4739.00	-501.88	882.16	2.50	180.00	1014.93	
8544.12	0.00	0.00	8300.00	-501.88	882.16	0.00	0.00	1014.93	PBHL_Bonanza 1023-614S

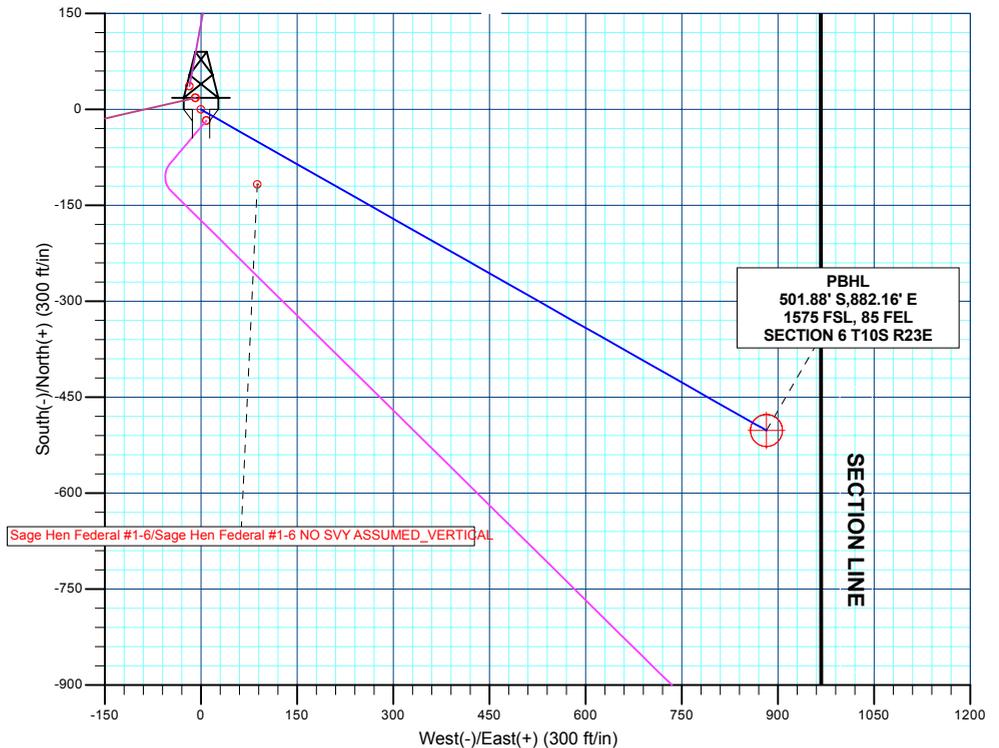
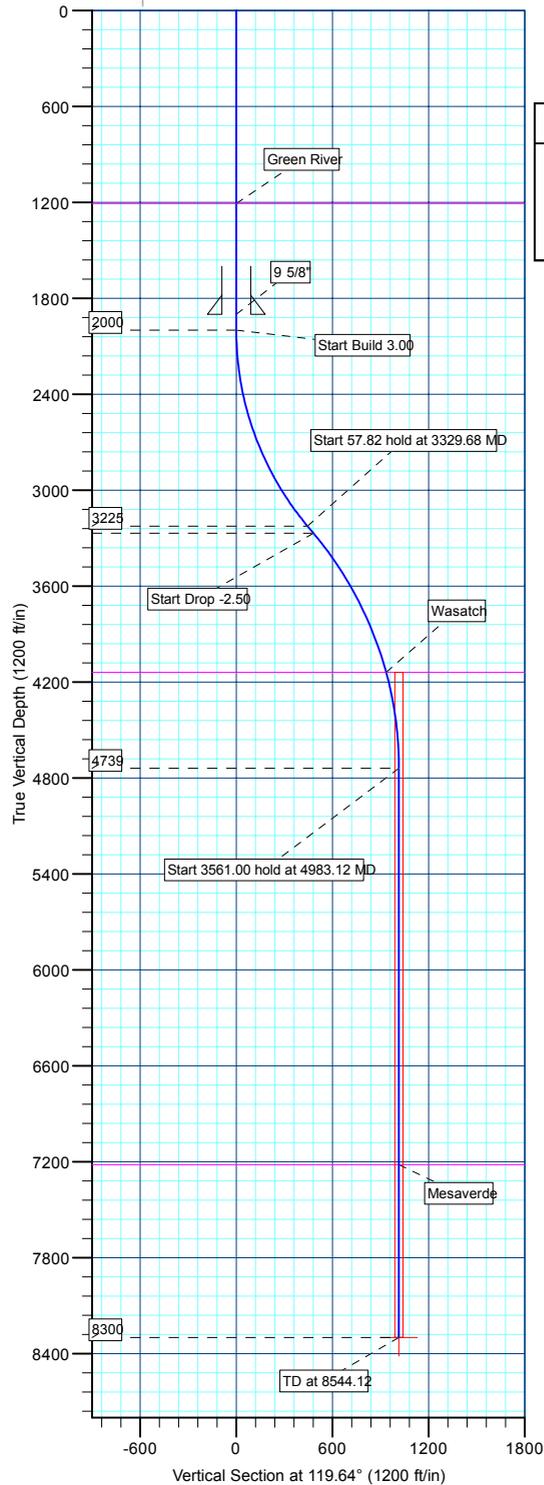


WELL @ 5199.00ft (Original Well Elev)
 GRD ELEV: 5181.00

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8300.00	-501.88	882.16	39° 58' 30.180 N 109° 21' 35.078 W		Circle (Radius: 25.00)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1208.00	1208.00	Green River
4139.00	4376.05	Wasatch
7219.00	7463.12	Mesaverde

CASING DETAILS			
TVD	MD	Name	Size
1900.00	1900.00	9 5/8"	9.62



ANTICOLLISION NOTE: DUE TO NOT HAVING ANY SURVEYS FOR THE EXISTING WELL, IT WAS ASSUMED VERTICAL TO 10000' TVD WITH AN UNKNOWN TOOL CODE. PLEASE ADHERE TO PLAN AS THE WELLBORE DIRECTION & INCLINATION ARE UNKNOWN.



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site:	Bonanza 1023-6I Pad	North Reference:	True
Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-6I4S		
Design:	PLAN #2		

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

Site	Bonanza 1023-6I Pad, SECTION 6 T10S R23E				
Site Position:		Northing:	14,521,707.57 ft	Latitude:	39° 58' 35.501 N
From:	Lat/Long	Easting:	2,099,052.39 ft	Longitude:	109° 21' 46.642 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.05 °

Well	Bonanza 1023-6I4S					
Well Position	+N/-S	-36.42 ft	Northing:	14,521,671.49 ft	Latitude:	39° 58' 35.141 N
	+E/-W	17.93 ft	Easting:	2,099,070.99 ft	Longitude:	109° 21' 46.411 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,181.00 ft

Wellbore	Bonanza 1023-6I4S				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2008	2/10/2009	11.34	65.96	52,582

Design	PLAN #2			
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	119.64

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,329.68	39.89	119.64	3,224.84	-219.79	386.33	3.00	3.00	0.00	119.64	
3,387.50	39.89	119.64	3,269.20	-238.13	418.56	0.00	0.00	0.00	0.00	
4,983.12	0.00	0.00	4,739.00	-501.88	882.16	2.50	-2.50	0.00	180.00	
8,544.12	0.00	0.00	8,300.00	-501.88	882.16	0.00	0.00	0.00	0.00	PBHL_Bonanza 10:



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Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site:	Bonanza 1023-6I Pad	North Reference:	True
Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-6I4S		
Design:	PLAN #2		

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 3.00									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	3.00	119.64	2,099.95	-1.29	2.27	2.62	3.00	3.00	0.00
2,200.00	6.00	119.64	2,199.63	-5.17	9.09	10.46	3.00	3.00	0.00
2,300.00	9.00	119.64	2,298.77	-11.63	20.44	23.51	3.00	3.00	0.00
2,400.00	12.00	119.64	2,397.08	-20.64	36.28	41.74	3.00	3.00	0.00
2,500.00	15.00	119.64	2,494.31	-32.18	56.56	65.08	3.00	3.00	0.00
2,600.00	18.00	119.64	2,590.18	-46.22	81.25	93.48	3.00	3.00	0.00
2,700.00	21.00	119.64	2,684.43	-62.73	110.26	126.85	3.00	3.00	0.00
2,800.00	24.00	119.64	2,776.81	-81.65	143.52	165.12	3.00	3.00	0.00
2,900.00	27.00	119.64	2,867.06	-102.94	180.93	208.16	3.00	3.00	0.00
3,000.00	30.00	119.64	2,954.93	-126.53	222.40	255.87	3.00	3.00	0.00
3,100.00	33.00	119.64	3,040.18	-152.36	267.81	308.12	3.00	3.00	0.00
3,200.00	36.00	119.64	3,122.59	-180.37	317.03	364.75	3.00	3.00	0.00
3,300.00	39.00	119.64	3,201.91	-210.47	369.94	425.62	3.00	3.00	0.00
Start 57.82 hold at 3329.68 MD									
3,329.68	39.89	119.64	3,224.84	-219.79	386.33	444.48	3.00	3.00	0.00
Start Drop -2.50									
3,387.50	39.89	119.64	3,269.20	-238.13	418.56	481.56	0.00	0.00	0.00
3,400.00	39.58	119.64	3,278.81	-242.08	425.50	489.55	2.50	-2.50	0.00
3,500.00	37.08	119.64	3,357.25	-272.75	479.40	551.56	2.50	-2.50	0.00
3,600.00	34.58	119.64	3,438.32	-301.69	530.28	610.09	2.50	-2.50	0.00
3,700.00	32.08	119.64	3,521.87	-328.86	578.03	665.03	2.50	-2.50	0.00
3,800.00	29.58	119.64	3,607.73	-354.19	622.57	716.27	2.50	-2.50	0.00
3,900.00	27.08	119.64	3,695.75	-377.66	663.81	763.72	2.50	-2.50	0.00
4,000.00	24.58	119.64	3,785.75	-399.20	701.67	807.28	2.50	-2.50	0.00
4,100.00	22.08	119.64	3,877.57	-418.78	736.09	846.88	2.50	-2.50	0.00
4,200.00	19.58	119.64	3,971.03	-436.36	766.99	882.43	2.50	-2.50	0.00
4,300.00	17.08	119.64	4,065.95	-451.91	794.32	913.88	2.50	-2.50	0.00
Wasatch									
4,376.05	15.18	119.64	4,139.00	-462.35	812.68	935.00	2.50	-2.50	0.00
4,400.00	14.58	119.64	4,162.15	-465.40	818.03	941.15	2.50	-2.50	0.00
4,500.00	12.08	119.64	4,259.45	-476.79	838.06	964.20	2.50	-2.50	0.00
4,600.00	9.58	119.64	4,357.66	-486.08	854.39	982.98	2.50	-2.50	0.00
4,700.00	7.08	119.64	4,456.60	-493.25	866.98	997.47	2.50	-2.50	0.00
4,800.00	4.58	119.64	4,556.07	-498.27	875.80	1,007.62	2.50	-2.50	0.00
4,900.00	2.08	119.64	4,655.90	-501.14	880.85	1,013.43	2.50	-2.50	0.00
Start 3561.00 hold at 4983.12 MD									
4,983.12	0.00	0.00	4,739.00	-501.88	882.16	1,014.93	2.50	-2.50	0.00
5,000.00	0.00	0.00	4,755.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,100.00	0.00	0.00	4,855.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,200.00	0.00	0.00	4,955.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,300.00	0.00	0.00	5,055.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,400.00	0.00	0.00	5,155.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,500.00	0.00	0.00	5,255.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,600.00	0.00	0.00	5,355.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,700.00	0.00	0.00	5,455.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,800.00	0.00	0.00	5,555.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
5,900.00	0.00	0.00	5,655.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,000.00	0.00	0.00	5,755.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,100.00	0.00	0.00	5,855.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,200.00	0.00	0.00	5,955.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,300.00	0.00	0.00	6,055.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,400.00	0.00	0.00	6,155.88	-501.88	882.16	1,014.93	0.00	0.00	0.00



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Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site:	Bonanza 1023-6I Pad	North Reference:	True
Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-6I4S		
Design:	PLAN #2		

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)
6,500.00	0.00	0.00	6,255.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,600.00	0.00	0.00	6,355.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,700.00	0.00	0.00	6,455.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,800.00	0.00	0.00	6,555.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
6,900.00	0.00	0.00	6,655.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,000.00	0.00	0.00	6,755.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,100.00	0.00	0.00	6,855.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,200.00	0.00	0.00	6,955.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,300.00	0.00	0.00	7,055.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,400.00	0.00	0.00	7,155.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
Mesaverde									
7,463.12	0.00	0.00	7,219.00	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,500.00	0.00	0.00	7,255.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,600.00	0.00	0.00	7,355.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,700.00	0.00	0.00	7,455.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,800.00	0.00	0.00	7,555.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
7,900.00	0.00	0.00	7,655.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
8,000.00	0.00	0.00	7,755.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
8,100.00	0.00	0.00	7,855.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
8,200.00	0.00	0.00	7,955.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
8,300.00	0.00	0.00	8,055.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
8,400.00	0.00	0.00	8,155.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
8,500.00	0.00	0.00	8,255.88	-501.88	882.16	1,014.93	0.00	0.00	0.00
TD at 8544.12 - PBHL_Bonanza 1023-6I4S - PBHL_Bonanza 1023-6J3S									
8,544.12	0.00	0.00	8,300.00	-501.88	882.16	1,014.93	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_Bonanza 1023 - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,300.00	-501.88	882.16	14,521,185.89	2,099,962.21	39° 58' 30.180 N	109° 21' 35.078 W

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,900.00	1,900.00	9 5/8"	9.62	12.25

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,208.00	1,208.00	Green River			
4,376.05	4,139.00	Wasatch			
7,463.12	7,219.00	Mesaverde			



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Site:	Bonanza 1023-6I Pad	North Reference:	True
Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-6I4S		
Design:	PLAN #2		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.00	2,000.00	0.00	0.00	Start Build 3.00
3,329.68	3,224.84	-219.79	386.33	Start 57.82 hold at 3329.68 MD
3,387.50	3,269.20	-238.13	418.56	Start Drop -2.50
4,983.12	4,739.00	-501.88	882.16	Start 3561.00 hold at 4983.12 MD
8,544.12	8,300.00	-501.88	882.16	TD at 8544.12



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-6I Pad

Bonanza 1023-6I4S

Bonanza 1023-6I4S

PLAN #2

Anticollision Report

11 February, 2009



Weatherford®



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Reference	PLAN #2		
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	2/11/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,544.12	PLAN #2 (Bonanza 1023-6I4S)	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 1023-6I Pad						
Bonanza 1023-6I2S - Bonanza 1023-6I2S - Design #1	2,000.00	2,000.00	40.60	31.87	4.653	CC, ES, SF
Bonanza 1023-6J3S - Bonanza 1023-6J3S - Design #1	2,000.00	2,000.00	20.06	11.33	2.299	CC, ES, SF
Bonanza 1023-6P1S - Bonanza 1023-6P1S - Design #1	300.00	300.00	19.20	18.11	17.719	CC, ES
Bonanza 1023-6P1S - Bonanza 1023-6P1S - Design #1	4,400.00	4,315.62	364.53	322.95	8.766	SF
Sage Hen Federal #1-6 - Sage Hen Federal #1-6_ASSUI	2,720.97	2,703.97	58.43	-1.91	0.968	Level 1, CC, ES, SF

Offset Design Bonanza 1023-6I Pad - Bonanza 1023-6I2S - Bonanza 1023-6I2S - Design #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-26.22	36.42	-17.93	40.60					
100.00	100.00	100.00	100.00	0.09	0.09	-26.22	36.42	-17.93	40.60	40.41	0.18	220.273		
200.00	200.00	200.00	200.00	0.32	0.32	-26.22	36.42	-17.93	40.60	39.96	0.63	64.051		
300.00	300.00	300.00	300.00	0.54	0.54	-26.22	36.42	-17.93	40.60	39.51	1.08	37.474		
400.00	400.00	400.00	400.00	0.77	0.77	-26.22	36.42	-17.93	40.60	39.07	1.53	26.484		
500.00	500.00	500.00	500.00	0.99	0.99	-26.22	36.42	-17.93	40.60	38.62	1.98	20.479		
600.00	600.00	600.00	600.00	1.22	1.22	-26.22	36.42	-17.93	40.60	38.17	2.43	16.694		
700.00	700.00	700.00	700.00	1.44	1.44	-26.22	36.42	-17.93	40.60	37.72	2.88	14.089		
800.00	800.00	800.00	800.00	1.67	1.67	-26.22	36.42	-17.93	40.60	37.27	3.33	12.188		
900.00	900.00	900.00	900.00	1.89	1.89	-26.22	36.42	-17.93	40.60	36.82	3.78	10.739		
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-26.22	36.42	-17.93	40.60	36.37	4.23	9.597		
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-26.22	36.42	-17.93	40.60	35.92	4.68	8.675		
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-26.22	36.42	-17.93	40.60	35.47	5.13	7.915		
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-26.22	36.42	-17.93	40.60	35.02	5.58	7.277		
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	-26.22	36.42	-17.93	40.60	34.57	6.03	6.735		
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	-26.22	36.42	-17.93	40.60	34.12	6.48	6.267		
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	-26.22	36.42	-17.93	40.60	33.67	6.93	5.861		
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	-26.22	36.42	-17.93	40.60	33.22	7.38	5.503		
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	-26.22	36.42	-17.93	40.60	32.77	7.83	5.187		
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	-26.22	36.42	-17.93	40.60	32.32	8.28	4.906		
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	-26.22	36.42	-17.93	40.60	31.87	8.73	4.653	CC, ES, SF	
2,100.00	2,099.95	2,098.76	2,098.74	4.57	4.58	-146.36	38.10	-17.62	44.15	35.00	9.15	4.827		

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 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Offset Well Error:	0.00 ft		
Reference													Distance		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis			Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning			
				Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)								
2,200.00	2,199.63	2,196.85	2,196.69	4.76	4.81	-147.46	43.07	-16.70	54.79	45.25	9.53	5.747				
2,300.00	2,298.77	2,294.21	2,293.71	4.97	5.03	-148.62	51.09	-15.22	72.32	62.41	9.91	7.296				
2,400.00	2,397.08	2,391.56	2,390.66	5.20	5.25	-150.49	59.83	-13.60	94.89	84.62	10.27	9.236				
2,500.00	2,494.31	2,487.68	2,486.37	5.48	5.47	-152.65	68.47	-12.01	122.04	111.43	10.62	11.494				
2,600.00	2,590.18	2,582.30	2,580.60	5.82	5.69	-154.73	76.97	-10.44	153.86	142.92	10.94	14.058				
2,700.00	2,684.43	2,675.16	2,673.07	6.25	5.91	-156.57	85.31	-8.89	190.37	179.11	11.26	16.913				
2,800.00	2,776.81	2,766.00	2,763.53	6.77	6.14	-158.15	93.47	-7.38	231.55	219.99	11.55	20.044				
2,900.00	2,867.06	2,854.58	2,851.74	7.41	6.35	-159.49	101.43	-5.91	277.32	265.49	11.84	23.431				
3,000.00	2,954.93	2,940.66	2,937.45	8.17	6.57	-160.59	109.16	-4.48	327.61	315.50	12.11	27.050				
3,100.00	3,040.18	3,023.99	3,020.44	9.07	6.77	-161.49	116.64	-3.10	382.29	369.91	12.38	30.875				
3,200.00	3,122.59	3,104.35	3,100.46	10.11	6.98	-162.21	123.86	-1.76	441.22	428.57	12.65	34.874				
3,300.00	3,201.91	3,181.52	3,177.31	11.28	7.17	-162.77	130.79	-0.48	504.26	491.33	12.93	39.011				
3,329.68	3,224.84	3,203.78	3,199.48	11.66	7.23	-162.91	132.79	-0.11	523.74	510.73	13.01	40.259				
3,387.50	3,269.20	3,246.84	3,242.36	12.41	7.34	-163.57	136.66	0.60	562.03	548.71	13.32	42.189				
3,400.00	3,278.81	3,256.18	3,251.65	12.56	7.36	-163.77	137.50	0.76	570.29	556.87	13.42	42.510				
3,500.00	3,357.25	3,332.43	3,327.59	13.68	7.56	-165.17	144.35	2.02	634.62	620.45	14.17	44.796				
3,600.00	3,438.32	3,411.41	3,406.24	14.78	7.76	-166.22	151.44	3.34	695.72	680.78	14.93	46.586				
3,700.00	3,521.87	3,492.96	3,487.45	15.83	7.97	-167.01	158.77	4.69	753.44	737.74	15.70	47.979				
3,800.00	3,607.73	3,576.93	3,571.06	16.82	8.19	-167.61	166.31	6.09	807.66	791.20	16.47	49.050				
3,900.00	3,695.75	3,663.66	3,657.44	17.74	8.41	-168.06	174.10	7.53	858.26	841.05	17.21	49.859				
4,000.00	3,785.75	3,759.48	3,752.94	18.59	8.61	-168.45	181.81	8.95	904.72	886.80	17.91	50.505				
4,100.00	3,877.57	3,858.12	3,851.36	19.36	8.81	-168.83	188.10	10.12	946.59	928.02	18.57	50.977				
4,200.00	3,971.03	3,959.28	3,952.40	20.05	9.00	-169.19	192.83	10.99	983.75	964.57	19.18	51.281				
4,300.00	4,065.95	4,062.66	4,055.74	20.66	9.19	-169.55	195.84	11.55	1,016.08	996.33	19.75	51.438				
4,400.00	4,162.15	4,167.93	4,161.01	21.20	9.38	-169.91	197.03	11.77	1,043.49	1,023.21	20.28	51.465				
4,500.00	4,259.45	4,266.38	4,259.45	21.65	9.58	-170.23	197.04	11.77	1,066.22	1,045.45	20.77	51.335				
4,600.00	4,357.66	4,364.59	4,357.66	22.03	9.79	-170.47	197.04	11.77	1,084.74	1,063.51	21.23	51.095				
4,700.00	4,456.60	4,463.53	4,456.60	22.34	10.00	-170.66	197.04	11.77	1,099.04	1,077.39	21.65	50.771				
4,800.00	4,556.07	4,563.00	4,556.07	22.58	10.21	-170.78	197.04	11.77	1,109.06	1,087.04	22.02	50.367				
4,900.00	4,655.90	4,662.83	4,655.90	22.76	10.42	-170.85	197.04	11.77	1,114.79	1,092.44	22.35	49.887				
4,983.12	4,739.00	4,745.93	4,739.00	22.85	10.60	-51.24	197.04	11.77	1,116.28	1,093.70	22.58	49.447				
5,000.00	4,755.88	4,762.81	4,755.88	22.87	10.64	-51.24	197.04	11.77	1,116.28	1,093.64	22.64	49.307				
5,100.00	4,855.88	4,862.81	4,855.88	22.97	10.85	-51.24	197.04	11.77	1,116.28	1,093.25	23.03	48.468				
5,200.00	4,955.88	4,962.81	4,955.88	23.06	11.07	-51.24	197.04	11.77	1,116.28	1,092.85	23.43	47.652				
5,300.00	5,055.88	5,062.81	5,055.88	23.16	11.29	-51.24	197.04	11.77	1,116.28	1,092.46	23.82	46.860				
5,400.00	5,155.88	5,162.81	5,155.88	23.27	11.50	-51.24	197.04	11.77	1,116.28	1,092.06	24.22	46.091				
5,500.00	5,255.88	5,262.81	5,255.88	23.37	11.72	-51.24	197.04	11.77	1,116.28	1,091.66	24.62	45.343				
5,600.00	5,355.88	5,362.81	5,355.88	23.48	11.93	-51.24	197.04	11.77	1,116.28	1,091.26	25.02	44.617				
5,700.00	5,455.88	5,462.81	5,455.88	23.58	12.15	-51.24	197.04	11.77	1,116.28	1,090.86	25.42	43.911				
5,800.00	5,555.88	5,562.81	5,555.88	23.69	12.37	-51.24	197.04	11.77	1,116.28	1,090.45	25.83	43.224				
5,900.00	5,655.88	5,662.81	5,655.88	23.80	12.59	-51.24	197.04	11.77	1,116.28	1,090.05	26.23	42.556				
6,000.00	5,755.88	5,762.81	5,755.88	23.91	12.80	-51.24	197.04	11.77	1,116.28	1,089.64	26.64	41.907				
6,100.00	5,855.88	5,862.81	5,855.88	24.03	13.02	-51.24	197.04	11.77	1,116.28	1,089.23	27.05	41.275				
6,200.00	5,955.88	5,962.81	5,955.88	24.14	13.24	-51.24	197.04	11.77	1,116.28	1,088.82	27.45	40.659				
6,300.00	6,055.88	6,062.81	6,055.88	24.26	13.46	-51.24	197.04	11.77	1,116.28	1,088.41	27.86	40.061				
6,400.00	6,155.88	6,162.81	6,155.88	24.38	13.68	-51.24	197.04	11.77	1,116.28	1,088.00	28.28	39.478				
6,500.00	6,255.88	6,262.81	6,255.88	24.50	13.90	-51.24	197.04	11.77	1,116.28	1,087.59	28.69	38.910				
6,600.00	6,355.88	6,362.81	6,355.88	24.62	14.12	-51.24	197.04	11.77	1,116.28	1,087.17	29.10	38.357				
6,700.00	6,455.88	6,462.81	6,455.88	24.74	14.34	-51.24	197.04	11.77	1,116.28	1,086.76	29.52	37.818				
6,800.00	6,555.88	6,562.81	6,555.88	24.87	14.55	-51.24	197.04	11.77	1,116.28	1,086.34	29.93	37.293				
6,900.00	6,655.88	6,662.81	6,655.88	24.99	14.77	-51.24	197.04	11.77	1,116.28	1,085.93	30.35	36.782				
7,000.00	6,755.88	6,762.81	6,755.88	25.12	14.99	-51.24	197.04	11.77	1,116.28	1,085.51	30.77	36.283				

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



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	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			
7,100.00	6,855.88	6,862.81	6,855.88	25.25	15.21	-51.24	197.04	11.77	1,116.28	1,085.09	31.18	35.796			
7,200.00	6,955.88	6,962.81	6,955.88	25.38	15.43	-51.24	197.04	11.77	1,116.28	1,084.67	31.60	35.321			
7,300.00	7,055.88	7,062.81	7,055.88	25.51	15.65	-51.24	197.04	11.77	1,116.28	1,084.25	32.02	34.858			
7,400.00	7,155.88	7,162.81	7,155.88	25.64	15.87	-51.24	197.04	11.77	1,116.28	1,083.83	32.44	34.406			
7,500.00	7,255.88	7,262.81	7,255.88	25.77	16.10	-51.24	197.04	11.77	1,116.28	1,083.41	32.87	33.965			
7,600.00	7,355.88	7,362.81	7,355.88	25.91	16.32	-51.24	197.04	11.77	1,116.28	1,082.99	33.29	33.535			
7,700.00	7,455.88	7,462.81	7,455.88	26.04	16.54	-51.24	197.04	11.77	1,116.28	1,082.57	33.71	33.114			
7,800.00	7,555.88	7,562.81	7,555.88	26.18	16.76	-51.24	197.04	11.77	1,116.28	1,082.14	34.13	32.703			
7,900.00	7,655.88	7,662.81	7,655.88	26.32	16.98	-51.24	197.04	11.77	1,116.28	1,081.72	34.56	32.302			
8,000.00	7,755.88	7,762.81	7,755.88	26.46	17.20	-51.24	197.04	11.77	1,116.28	1,081.29	34.98	31.910			
8,100.00	7,855.88	7,862.81	7,855.88	26.60	17.42	-51.24	197.04	11.77	1,116.28	1,080.87	35.41	31.527			
8,200.00	7,955.88	7,962.81	7,955.88	26.74	17.64	-51.24	197.04	11.77	1,116.28	1,080.44	35.83	31.152			
8,300.00	8,055.88	8,062.81	8,055.88	26.88	17.86	-51.24	197.04	11.77	1,116.28	1,080.02	36.26	30.785			
8,400.00	8,155.88	8,162.81	8,155.88	27.03	18.08	-51.24	197.04	11.77	1,116.28	1,079.59	36.69	30.427			
8,500.00	8,255.88	8,262.81	8,255.88	27.17	18.31	-51.24	197.04	11.77	1,116.28	1,079.16	37.11	30.077			
8,544.12	8,300.00	8,306.93	8,300.00	27.24	18.40	-51.24	197.04	11.77	1,116.28	1,078.97	37.30	29.925			



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Offset Well Error:	0.00 ft		
Reference													Distance		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +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	-24.78	18.21	-8.41	20.06							
100.00	100.00	100.00	100.00	0.09	0.09	-24.78	18.21	-8.41	20.06	19.87	0.18	108.827				
200.00	200.00	200.00	200.00	0.32	0.32	-24.78	18.21	-8.41	20.06	19.42	0.63	31.645				
300.00	300.00	300.00	300.00	0.54	0.54	-24.78	18.21	-8.41	20.06	18.97	1.08	18.514				
400.00	400.00	400.00	400.00	0.77	0.77	-24.78	18.21	-8.41	20.06	18.52	1.53	13.085				
500.00	500.00	500.00	500.00	0.99	0.99	-24.78	18.21	-8.41	20.06	18.08	1.98	10.118				
600.00	600.00	600.00	600.00	1.22	1.22	-24.78	18.21	-8.41	20.06	17.63	2.43	8.248				
700.00	700.00	700.00	700.00	1.44	1.44	-24.78	18.21	-8.41	20.06	17.18	2.88	6.961				
800.00	800.00	800.00	800.00	1.67	1.67	-24.78	18.21	-8.41	20.06	16.73	3.33	6.021				
900.00	900.00	900.00	900.00	1.89	1.89	-24.78	18.21	-8.41	20.06	16.28	3.78	5.305				
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-24.78	18.21	-8.41	20.06	15.83	4.23	4.742				
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-24.78	18.21	-8.41	20.06	15.38	4.68	4.286				
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-24.78	18.21	-8.41	20.06	14.93	5.13	3.911				
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-24.78	18.21	-8.41	20.06	14.48	5.58	3.595				
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	-24.78	18.21	-8.41	20.06	14.03	6.03	3.327				
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	-24.78	18.21	-8.41	20.06	13.58	6.48	3.096				
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	-24.78	18.21	-8.41	20.06	13.13	6.93	2.895				
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	-24.78	18.21	-8.41	20.06	12.68	7.38	2.719				
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	-24.78	18.21	-8.41	20.06	12.23	7.83	2.563				
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	-24.78	18.21	-8.41	20.06	11.78	8.28	2.424				
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	-24.78	18.21	-8.41	20.06	11.33	8.73	2.299	CC, ES, SF			
2,100.00	2,099.95	2,099.55	2,099.50	4.57	4.57	-154.49	17.63	-10.94	23.09	13.96	9.13	2.529				
2,200.00	2,199.63	2,197.69	2,197.34	4.76	4.77	-172.00	15.93	-18.37	34.72	25.24	9.48	3.662				
2,300.00	2,298.77	2,293.12	2,291.97	4.97	4.97	176.33	13.21	-30.29	56.89	47.08	9.81	5.798				
2,400.00	2,397.08	2,384.67	2,382.07	5.20	5.19	169.97	9.61	-46.04	88.97	78.84	10.13	8.781				
2,500.00	2,494.31	2,471.37	2,466.60	5.48	5.43	166.31	5.32	-64.83	130.04	119.60	10.44	12.459				
2,600.00	2,590.18	2,552.49	2,544.82	5.82	5.70	163.97	0.53	-85.77	179.27	168.54	10.73	16.711				
2,700.00	2,684.43	2,627.54	2,616.31	6.25	5.98	162.28	-4.56	-108.01	235.94	224.93	11.01	21.437				
2,800.00	2,776.81	2,700.00	2,684.43	6.77	6.29	160.88	-10.05	-132.07	299.34	288.05	11.29	26.516				
2,900.00	2,867.06	2,758.42	2,738.64	7.41	6.60	159.65	-14.90	-153.29	368.70	357.14	11.57	31.878				
3,000.00	2,954.93	2,814.19	2,789.76	8.17	6.91	158.40	-19.88	-175.05	443.42	431.56	11.86	37.388				
3,100.00	3,040.18	2,863.70	2,834.56	9.07	7.22	157.05	-24.57	-195.57	522.81	510.61	12.20	42.851				
3,200.00	3,122.59	2,900.00	2,867.06	10.11	7.46	155.44	-28.17	-211.34	606.33	593.73	12.60	48.125				
3,300.00	3,201.91	2,944.93	2,906.85	11.28	7.79	153.66	-32.82	-231.68	693.23	680.09	13.13	52.779				
3,329.68	3,224.84	2,955.08	2,915.76	11.66	7.87	153.03	-33.90	-236.40	719.63	706.31	13.32	54.022				
3,387.50	3,269.20	2,976.73	2,934.71	12.41	8.03	153.34	-36.24	-246.63	771.44	757.74	13.70	56.320				
3,400.00	3,278.81	2,978.57	2,936.32	12.56	8.04	153.65	-36.44	-247.50	782.64	768.87	13.77	56.827				
3,500.00	3,357.25	3,024.61	2,976.46	13.68	8.42	156.04	-41.46	-269.47	871.38	856.99	14.39	60.572				
3,600.00	3,438.32	3,074.19	3,019.70	14.78	8.84	157.82	-46.87	-293.12	958.21	943.16	15.05	63.667				
3,700.00	3,521.87	3,127.23	3,065.95	15.83	9.29	159.16	-52.65	-318.43	1,042.97	1,027.22	15.75	66.205				
3,800.00	3,607.73	3,183.62	3,115.12	16.82	9.79	160.18	-58.80	-345.33	1,125.50	1,109.02	16.48	68.286				
3,900.00	3,695.75	3,243.26	3,167.13	17.74	10.33	160.96	-65.30	-373.79	1,205.66	1,188.43	17.23	69.983				
4,000.00	3,785.75	3,306.03	3,221.87	18.59	10.91	161.55	-72.15	-403.73	1,283.30	1,265.32	17.98	71.374				
4,100.00	3,877.57	3,371.81	3,279.24	19.36	11.53	161.99	-79.32	-435.12	1,358.30	1,339.56	18.74	72.493				
4,200.00	3,971.03	3,440.49	3,339.13	20.05	12.18	162.32	-86.81	-467.89	1,430.53	1,411.04	19.49	73.397				
4,300.00	4,065.95	3,511.92	3,401.42	20.66	12.87	162.54	-94.60	-501.97	1,499.88	1,479.64	20.24	74.121				
4,400.00	4,162.15	3,585.97	3,466.00	21.20	13.60	162.68	-102.68	-537.30	1,566.24	1,545.27	20.97	74.691				
4,500.00	4,259.45	3,662.50	3,532.74	21.65	14.35	162.75	-111.02	-573.81	1,629.51	1,607.82	21.69	75.136				
4,600.00	4,357.66	3,741.37	3,601.52	22.03	15.14	162.76	-119.62	-611.44	1,689.59	1,667.21	22.38	75.484				
4,700.00	4,456.60	3,822.43	3,672.20	22.34	15.95	162.70	-128.46	-650.11	1,746.40	1,723.35	23.05	75.754				
4,800.00	4,556.07	3,905.51	3,744.65	22.58	16.80	162.60	-137.52	-689.75	1,799.86	1,776.17	23.69	75.963				
4,900.00	4,655.90	3,990.47	3,818.74	22.76	17.66	162.44	-146.79	-730.29	1,849.91	1,825.61	24.30	76.126				

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 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Offset Well Error:	0.00 ft		
Reference													Distance		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis			Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning			
				Reference (ft)	Offset (ft)	Highside Toolface (°)										
4,983.12	4,739.00	4,062.39	3,881.46	22.85	18.40	-78.09	-154.63	-764.60	1,888.86	1,864.09	24.77	76.257				
5,000.00	4,755.88	4,077.11	3,894.30	22.87	18.55	-78.20	-156.24	-771.63	1,896.52	1,871.65	24.87	76.260				
5,100.00	4,855.88	4,164.32	3,970.35	22.97	19.44	-78.79	-165.75	-813.23	1,942.04	1,916.57	25.47	76.254				
5,200.00	4,955.88	4,251.52	4,046.39	23.06	20.34	-79.35	-175.26	-854.84	1,987.71	1,961.65	26.06	76.272				
5,300.00	5,055.88	4,338.73	4,122.44	23.16	21.25	-79.89	-184.77	-896.45	2,033.54	2,006.90	26.65	76.312				
5,400.00	5,155.88	4,425.94	4,198.49	23.27	22.15	-80.41	-194.28	-938.05	2,079.52	2,052.29	27.23	76.371				
5,500.00	5,255.88	4,513.14	4,274.54	23.37	23.06	-80.90	-203.79	-979.66	2,125.62	2,097.81	27.81	76.446				
5,600.00	5,355.88	4,600.35	4,350.58	23.48	23.97	-81.38	-213.30	-1,021.27	2,171.85	2,143.47	28.38	76.536				
5,700.00	5,455.88	4,687.55	4,426.63	23.58	24.88	-81.83	-222.81	-1,062.87	2,218.19	2,189.25	28.94	76.638				
5,800.00	5,555.88	5,198.13	4,891.01	23.69	28.73	-83.83	-269.57	-1,267.43	2,262.03	2,231.08	30.94	73.101				
5,900.00	5,655.88	5,974.81	5,655.88	23.80	30.94	-84.76	-294.62	-1,377.03	2,268.68	2,235.95	32.73	69.320				
6,000.00	5,755.88	6,074.81	5,755.88	23.91	31.02	-84.76	-294.62	-1,377.03	2,268.68	2,235.64	33.04	68.675				
6,100.00	5,855.88	6,174.81	5,855.88	24.03	31.11	-84.76	-294.62	-1,377.03	2,268.68	2,235.33	33.35	68.032				
6,200.00	5,955.88	6,274.81	5,955.88	24.14	31.20	-84.76	-294.62	-1,377.03	2,268.68	2,235.01	33.66	67.395				
6,300.00	6,055.88	6,374.81	6,055.88	24.26	31.29	-84.76	-294.62	-1,377.03	2,268.68	2,234.69	33.98	66.764				
6,400.00	6,155.88	6,474.81	6,155.88	24.38	31.38	-84.76	-294.62	-1,377.03	2,268.68	2,234.37	34.30	66.139				
6,500.00	6,255.88	6,574.81	6,255.88	24.50	31.48	-84.76	-294.62	-1,377.03	2,268.68	2,234.05	34.63	65.520				
6,600.00	6,355.88	6,674.81	6,355.88	24.62	31.57	-84.76	-294.62	-1,377.03	2,268.68	2,233.72	34.95	64.908				
6,700.00	6,455.88	6,774.81	6,455.88	24.74	31.67	-84.76	-294.62	-1,377.03	2,268.68	2,233.39	35.28	64.302				
6,800.00	6,555.88	6,874.81	6,555.88	24.87	31.76	-84.76	-294.62	-1,377.03	2,268.68	2,233.06	35.61	63.702				
6,900.00	6,655.88	6,974.81	6,655.88	24.99	31.86	-84.76	-294.62	-1,377.03	2,268.68	2,232.73	35.95	63.109				
7,000.00	6,755.88	7,074.81	6,755.88	25.12	31.96	-84.76	-294.62	-1,377.03	2,268.68	2,232.39	36.29	62.523				
7,100.00	6,855.88	7,174.81	6,855.88	25.25	32.06	-84.76	-294.62	-1,377.03	2,268.68	2,232.05	36.62	61.944				
7,200.00	6,955.88	7,274.81	6,955.88	25.38	32.17	-84.76	-294.62	-1,377.03	2,268.68	2,231.71	36.97	61.371				
7,300.00	7,055.88	7,374.81	7,055.88	25.51	32.27	-84.76	-294.62	-1,377.03	2,268.68	2,231.36	37.31	60.805				
7,400.00	7,155.88	7,474.81	7,155.88	25.64	32.37	-84.76	-294.62	-1,377.03	2,268.68	2,231.02	37.66	60.246				
7,500.00	7,255.88	7,574.81	7,255.88	25.77	32.48	-84.76	-294.62	-1,377.03	2,268.68	2,230.67	38.00	59.694				
7,600.00	7,355.88	7,674.81	7,355.88	25.91	32.59	-84.76	-294.62	-1,377.03	2,268.68	2,230.32	38.36	59.149				
7,700.00	7,455.88	7,774.81	7,455.88	26.04	32.69	-84.76	-294.62	-1,377.03	2,268.68	2,229.97	38.71	58.610				
7,800.00	7,555.88	7,874.81	7,555.88	26.18	32.80	-84.76	-294.62	-1,377.03	2,268.68	2,229.61	39.06	58.078				
7,900.00	7,655.88	7,974.81	7,655.88	26.32	32.91	-84.76	-294.62	-1,377.03	2,268.68	2,229.26	39.42	57.553				
8,000.00	7,755.88	8,074.81	7,755.88	26.46	33.03	-84.76	-294.62	-1,377.03	2,268.68	2,228.90	39.78	57.035				
8,100.00	7,855.88	8,174.81	7,855.88	26.60	33.14	-84.76	-294.62	-1,377.03	2,268.68	2,228.54	40.14	56.523				
8,200.00	7,955.88	8,274.81	7,955.88	26.74	33.25	-84.76	-294.62	-1,377.03	2,268.68	2,228.18	40.50	56.018				
8,300.00	8,055.88	8,374.81	8,055.88	26.88	33.37	-84.76	-294.62	-1,377.03	2,268.68	2,227.81	40.86	55.519				
8,400.00	8,155.88	8,474.81	8,155.88	27.03	33.48	-84.76	-294.62	-1,377.03	2,268.68	2,227.45	41.23	55.028				
8,500.00	8,255.88	8,574.81	8,255.88	27.17	33.60	-84.76	-294.62	-1,377.03	2,268.68	2,227.08	41.59	54.542				
8,544.12	8,300.00	8,618.94	8,300.00	27.24	33.65	-84.76	-294.62	-1,377.03	2,268.68	2,226.92	41.76	54.330				



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Offset Well Error:	0.00 ft		
Reference													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)	Offset Wellbore Centre +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	153.09	-17.12	8.69	19.20							
100.00	100.00	100.00	100.00	0.09	0.09	153.09	-17.12	8.69	19.20	19.01	0.18	104.154				
200.00	200.00	200.00	200.00	0.32	0.32	153.09	-17.12	8.69	19.20	18.56	0.63	30.286				
300.00	300.00	300.00	300.00	0.54	0.54	153.09	-17.12	8.69	19.20	18.11	1.08	17.719	CC, ES			
400.00	400.00	399.70	399.68	0.77	0.75	157.68	-18.45	7.57	19.94	18.43	1.51	13.192				
500.00	500.00	499.15	498.99	0.99	0.95	169.29	-22.42	4.24	22.84	20.90	1.94	11.774				
600.00	600.00	598.13	597.59	1.22	1.18	-177.48	-28.99	-1.28	29.12	26.74	2.38	12.218				
700.00	700.00	697.57	696.49	1.44	1.44	-167.85	-36.95	-7.96	37.96	35.12	2.84	13.363				
800.00	800.00	797.02	795.39	1.67	1.71	-161.95	-44.92	-14.64	47.47	44.15	3.31	14.335				
900.00	900.00	896.47	894.30	1.89	2.00	-158.04	-52.88	-21.32	57.30	53.51	3.79	15.102				
1,000.00	1,000.00	995.93	993.21	2.12	2.28	-155.29	-60.84	-28.00	67.32	63.04	4.29	15.711				
1,100.00	1,100.00	1,095.25	1,091.99	2.34	2.57	-153.31	-68.85	-34.61	77.47	72.70	4.78	16.219				
1,200.00	1,200.00	1,194.80	1,191.00	2.56	2.82	-153.64	-78.30	-38.79	87.84	82.60	5.24	16.771				
1,300.00	1,300.00	1,295.86	1,291.50	2.79	3.06	-156.32	-88.79	-38.95	97.32	91.63	5.69	17.093				
1,400.00	1,400.00	1,398.34	1,393.42	3.01	3.28	-160.53	-98.61	-34.86	104.80	98.66	6.14	17.065				
1,500.00	1,500.00	1,499.46	1,493.99	3.24	3.49	-165.37	-106.45	-27.80	110.19	103.61	6.58	16.747				
1,600.00	1,600.00	1,598.91	1,592.89	3.46	3.71	-169.77	-113.93	-20.57	115.99	108.96	7.03	16.498				
1,700.00	1,700.00	1,698.37	1,691.80	3.69	3.94	-173.73	-121.40	-13.34	122.41	114.92	7.49	16.344				
1,800.00	1,800.00	1,797.82	1,790.71	3.91	4.18	-177.28	-128.88	-6.12	129.36	121.40	7.96	16.259				
1,900.00	1,900.00	1,897.27	1,889.62	4.14	4.43	179.54	-136.35	1.11	136.75	128.32	8.43	16.225				
2,000.00	2,000.00	1,996.72	1,988.52	4.36	4.68	176.68	-143.82	8.33	144.52	135.61	8.91	16.225				
2,100.00	2,099.95	2,091.22	2,082.29	4.57	4.95	54.75	-152.21	16.44	152.61	143.63	8.98	16.999				
2,200.00	2,199.63	2,184.63	2,174.30	4.76	5.24	53.10	-163.75	27.59	161.65	152.26	9.38	17.226				
2,300.00	2,298.77	2,277.58	2,264.97	4.97	5.59	51.99	-178.42	41.77	171.52	161.71	9.81	17.492				
2,400.00	2,397.08	2,370.05	2,354.09	5.20	5.99	51.34	-196.15	58.91	182.11	171.86	10.26	17.758				
2,500.00	2,494.31	2,462.05	2,441.46	5.48	6.45	51.09	-216.85	78.91	193.37	182.62	10.75	17.982				
2,600.00	2,590.18	2,553.57	2,526.90	5.82	6.98	51.15	-240.41	101.69	205.26	193.93	11.32	18.124				
2,700.00	2,684.43	2,647.62	2,613.10	6.25	7.59	51.56	-267.44	127.82	217.50	205.49	12.01	18.114				
2,800.00	2,776.81	2,746.94	2,703.75	6.77	8.30	52.88	-296.61	156.02	227.38	214.51	12.87	17.668				
2,900.00	2,867.06	2,846.18	2,794.34	7.41	9.03	55.15	-325.76	184.20	234.41	220.46	13.95	16.798				
3,000.00	2,954.93	2,945.09	2,884.62	8.17	9.78	58.37	-354.81	212.27	239.08	223.75	15.32	15.601				
3,100.00	3,040.18	3,043.39	2,974.35	9.07	10.54	62.53	-383.68	240.18	242.09	225.05	17.03	14.212				
3,200.00	3,122.59	3,140.80	3,063.26	10.11	11.31	67.61	-412.29	267.83	244.39	225.29	19.10	12.793				
3,300.00	3,201.91	3,237.07	3,151.13	11.28	12.08	73.57	-440.57	295.16	247.21	225.71	21.50	11.497				
3,329.68	3,224.84	3,265.38	3,176.98	11.66	12.30	75.49	-448.88	303.20	248.36	226.09	22.26	11.155				
3,387.50	3,269.20	3,320.41	3,227.20	12.41	12.75	79.32	-465.04	318.82	251.40	227.64	23.76	10.580				
3,400.00	3,278.81	3,332.32	3,238.07	12.56	12.84	80.15	-468.54	322.20	252.22	228.15	24.07	10.478				
3,500.00	3,357.25	3,428.22	3,325.61	13.68	13.62	86.18	-496.71	349.43	260.87	234.50	26.37	9.894				
3,600.00	3,438.32	3,525.17	3,414.10	14.78	14.42	91.06	-525.18	376.95	272.11	243.62	28.49	9.552				
3,700.00	3,521.87	3,622.96	3,503.36	15.83	15.22	94.78	-553.90	404.71	284.65	254.20	30.45	9.348				
3,800.00	3,607.73	3,721.42	3,593.23	16.82	16.04	97.41	-582.82	432.66	297.56	265.27	32.29	9.214				
3,900.00	3,695.75	3,820.36	3,683.54	17.74	16.86	99.06	-611.88	460.75	310.23	276.18	34.05	9.112				
4,000.00	3,785.75	3,919.59	3,774.11	18.59	17.69	99.82	-641.02	488.92	322.30	286.58	35.72	9.023				
4,100.00	3,877.57	4,018.92	3,864.78	19.36	18.53	99.78	-670.19	517.12	333.65	296.32	37.33	8.939				
4,200.00	3,971.03	4,118.16	3,955.36	20.05	19.36	99.04	-699.34	545.29	344.32	305.46	38.85	8.862				
4,300.00	4,065.95	4,217.12	4,045.70	20.66	20.19	97.64	-728.41	573.39	354.50	314.22	40.28	8.801				
4,400.00	4,162.15	4,315.62	4,135.60	21.20	21.02	95.68	-757.33	601.35	364.53	322.95	41.58	8.766	SF			
4,500.00	4,259.45	4,413.47	4,224.92	21.65	21.85	93.20	-786.07	629.13	374.83	332.11	42.72	8.774				
4,600.00	4,357.66	4,510.48	4,313.46	22.03	22.67	90.29	-814.56	656.67	385.94	342.27	43.66	8.839				
4,700.00	4,456.60	4,606.46	4,401.07	22.34	23.49	87.03	-842.75	683.92	398.43	354.06	44.37	8.979				
4,800.00	4,556.07	4,703.29	4,489.53	22.58	24.28	83.45	-871.08	711.30	412.89	368.09	44.80	9.216				
4,900.00	4,655.90	4,806.12	4,584.77	22.76	24.92	79.75	-898.92	738.21	428.53	383.67	44.85	9.554				

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 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Offset Well Error:	0.00 ft		
Reference													Distance		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis			Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)								
4,983.12	4,739.00	4,892.90	4,666.45	22.85	25.41	-163.54	-920.00	758.59	442.00	397.27	44.72	9.883				
5,000.00	4,755.88	4,910.69	4,683.32	22.87	25.50	-164.18	-924.05	762.50	444.76	400.09	44.66	9.958				
5,100.00	4,855.88	5,017.93	4,785.93	22.97	26.03	-167.57	-946.44	784.14	460.58	416.24	44.34	10.388				
5,200.00	4,955.88	5,128.03	4,892.67	23.06	26.49	-170.30	-965.81	802.87	474.88	430.83	44.05	10.780				
5,300.00	5,055.88	5,240.58	5,003.00	23.16	26.89	-172.42	-981.78	818.30	487.01	443.17	43.84	11.108				
5,400.00	5,155.88	5,355.10	5,116.24	23.27	27.21	-173.96	-994.01	830.13	496.46	452.72	43.74	11.351				
5,500.00	5,255.88	5,471.08	5,231.63	23.37	27.45	-174.97	-1,002.24	838.08	502.88	459.14	43.74	11.497				
5,600.00	5,355.88	5,587.92	5,348.33	23.48	27.62	-175.45	-1,006.28	841.98	506.05	462.19	43.86	11.538				
5,700.00	5,455.88	5,695.47	5,455.88	23.58	27.72	-175.49	-1,006.69	842.38	506.38	462.30	44.08	11.488				
5,800.00	5,555.88	5,795.47	5,555.88	23.69	27.80	-175.49	-1,006.69	842.38	506.38	462.08	44.30	11.431				
5,900.00	5,655.88	5,895.47	5,655.88	23.80	27.88	-175.49	-1,006.69	842.38	506.38	461.86	44.52	11.374				
6,000.00	5,755.88	5,995.47	5,755.88	23.91	27.97	-175.49	-1,006.69	842.38	506.38	461.63	44.75	11.316				
6,100.00	5,855.88	6,095.47	5,855.88	24.03	28.05	-175.49	-1,006.69	842.38	506.38	461.40	44.98	11.258				
6,200.00	5,955.88	6,195.47	5,955.88	24.14	28.14	-175.49	-1,006.69	842.38	506.38	461.17	45.21	11.200				
6,300.00	6,055.88	6,295.47	6,055.88	24.26	28.23	-175.49	-1,006.69	842.38	506.38	460.93	45.45	11.142				
6,400.00	6,155.88	6,395.47	6,155.88	24.38	28.32	-175.49	-1,006.69	842.38	506.38	460.69	45.69	11.083				
6,500.00	6,255.88	6,495.47	6,255.88	24.50	28.42	-175.49	-1,006.69	842.38	506.38	460.45	45.93	11.025				
6,600.00	6,355.88	6,595.47	6,355.88	24.62	28.51	-175.49	-1,006.69	842.38	506.38	460.20	46.18	10.966				
6,700.00	6,455.88	6,695.47	6,455.88	24.74	28.61	-175.49	-1,006.69	842.38	506.38	459.95	46.43	10.907				
6,800.00	6,555.88	6,795.47	6,555.88	24.87	28.70	-175.49	-1,006.69	842.38	506.38	459.70	46.68	10.848				
6,900.00	6,655.88	6,895.47	6,655.88	24.99	28.80	-175.49	-1,006.69	842.38	506.38	459.44	46.93	10.789				
7,000.00	6,755.88	6,995.47	6,755.88	25.12	28.90	-175.49	-1,006.69	842.38	506.38	459.18	47.19	10.730				
7,100.00	6,855.88	7,095.47	6,855.88	25.25	29.00	-175.49	-1,006.69	842.38	506.38	458.92	47.45	10.671				
7,200.00	6,955.88	7,195.47	6,955.88	25.38	29.11	-175.49	-1,006.69	842.38	506.38	458.66	47.72	10.612				
7,300.00	7,055.88	7,295.47	7,055.88	25.51	29.21	-175.49	-1,006.69	842.38	506.38	458.39	47.98	10.553				
7,400.00	7,155.88	7,395.47	7,155.88	25.64	29.32	-175.49	-1,006.69	842.38	506.38	458.12	48.25	10.494				
7,500.00	7,255.88	7,495.47	7,255.88	25.77	29.42	-175.49	-1,006.69	842.38	506.38	457.85	48.52	10.436				
7,600.00	7,355.88	7,595.47	7,355.88	25.91	29.53	-175.49	-1,006.69	842.38	506.38	457.58	48.80	10.377				
7,700.00	7,455.88	7,695.47	7,455.88	26.04	29.64	-175.49	-1,006.69	842.38	506.38	457.30	49.08	10.318				
7,800.00	7,555.88	7,795.47	7,555.88	26.18	29.75	-175.49	-1,006.69	842.38	506.38	457.02	49.36	10.260				
7,900.00	7,655.88	7,895.47	7,655.88	26.32	29.86	-175.49	-1,006.69	842.38	506.38	456.74	49.64	10.202				
8,000.00	7,755.88	7,995.47	7,755.88	26.46	29.98	-175.49	-1,006.69	842.38	506.38	456.45	49.92	10.143				
8,100.00	7,855.88	8,095.47	7,855.88	26.60	30.09	-175.49	-1,006.69	842.38	506.38	456.17	50.21	10.085				
8,200.00	7,955.88	8,195.47	7,955.88	26.74	30.21	-175.49	-1,006.69	842.38	506.38	455.88	50.50	10.028				
8,300.00	8,055.88	8,295.47	8,055.88	26.88	30.32	-175.49	-1,006.69	842.38	506.38	455.59	50.79	9.970				
8,400.00	8,155.88	8,395.47	8,155.88	27.03	30.44	-175.49	-1,006.69	842.38	506.38	455.29	51.08	9.913				
8,500.00	8,255.88	8,495.47	8,255.88	27.17	30.56	-175.49	-1,006.69	842.38	506.38	455.00	51.38	9.856				
8,544.12	8,300.00	8,539.59	8,300.00	27.24	30.60	-175.49	-1,006.69	842.38	506.38	454.88	51.49	9.834				



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 10000-UNKNOWN													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	143.12	-117.28	87.99	146.62					
100.00	100.00	100.00	100.00	0.09	2.00	143.12	-117.28	87.99	146.62	144.53	2.09	70.200		
200.00	200.00	200.00	200.00	0.32	3.99	143.12	-117.28	87.99	146.62	142.31	4.31	34.020		
300.00	300.00	300.00	300.00	0.54	5.99	143.12	-117.28	87.99	146.62	140.09	6.53	22.450		
400.00	400.00	400.00	400.00	0.77	7.99	143.12	-117.28	87.99	146.62	137.87	8.75	16.752		
500.00	500.00	500.00	500.00	0.99	9.98	143.12	-117.28	87.99	146.62	135.64	10.97	13.361		
600.00	600.00	600.00	600.00	1.22	11.98	143.12	-117.28	87.99	146.62	133.42	13.19	11.112		
700.00	700.00	700.00	700.00	1.44	13.97	143.12	-117.28	87.99	146.62	131.20	15.42	9.511		
800.00	800.00	800.00	800.00	1.67	15.97	143.12	-117.28	87.99	146.62	128.98	17.64	8.313		
900.00	900.00	900.00	900.00	1.89	17.97	143.12	-117.28	87.99	146.62	126.76	19.86	7.383		
1,000.00	1,000.00	1,000.00	1,000.00	2.12	19.96	143.12	-117.28	87.99	146.62	124.54	22.08	6.641		
1,100.00	1,100.00	1,100.00	1,100.00	2.34	21.96	143.12	-117.28	87.99	146.62	122.32	24.30	6.034		
1,200.00	1,200.00	1,200.00	1,200.00	2.56	23.96	143.12	-117.28	87.99	146.62	120.10	26.52	5.528		
1,300.00	1,300.00	1,300.00	1,300.00	2.79	25.95	143.12	-117.28	87.99	146.62	117.87	28.74	5.101		
1,400.00	1,400.00	1,400.00	1,400.00	3.01	27.95	143.12	-117.28	87.99	146.62	115.65	30.96	4.735		
1,500.00	1,500.00	1,500.00	1,500.00	3.24	29.95	143.12	-117.28	87.99	146.62	113.43	33.18	4.418		
1,600.00	1,600.00	1,600.00	1,600.00	3.46	31.94	143.12	-117.28	87.99	146.62	111.21	35.41	4.141		
1,700.00	1,700.00	1,700.00	1,700.00	3.69	33.94	143.12	-117.28	87.99	146.62	108.99	37.63	3.897		
1,800.00	1,800.00	1,800.00	1,800.00	3.91	35.94	143.12	-117.28	87.99	146.62	106.77	39.85	3.679		
1,900.00	1,900.00	1,900.00	1,900.00	4.14	37.93	143.12	-117.28	87.99	146.62	104.55	42.07	3.485		
2,000.00	2,000.00	2,000.00	2,000.00	4.36	39.93	143.12	-117.28	87.99	146.62	102.33	44.29	3.310		
2,100.00	2,099.95	2,099.95	2,099.95	4.57	41.92	23.93	-117.28	87.99	144.22	97.78	46.44	3.106		
2,200.00	2,199.63	2,199.63	2,199.63	4.76	43.91	25.35	-117.28	87.99	137.08	88.63	48.45	2.829		
2,300.00	2,298.77	2,298.77	2,298.77	4.97	45.89	28.06	-117.28	87.99	125.40	75.04	50.36	2.490		
2,400.00	2,397.08	2,397.08	2,397.08	5.20	47.86	32.78	-117.28	87.99	109.61	57.39	52.21	2.099		
2,500.00	2,494.31	2,494.31	2,494.31	5.48	49.80	41.08	-117.28	87.99	90.72	36.55	54.16	1.675		
2,600.00	2,590.18	2,590.18	2,590.18	5.82	51.71	56.28	-117.28	87.99	71.38	14.75	56.63	1.260 Level 3		
2,700.00	2,684.43	2,684.43	2,684.43	6.25	53.59	83.06	-117.28	87.99	58.92	-0.86	59.78	0.986 Level 1		
2,720.97	2,703.97	2,703.97	2,703.97	6.36	53.98	90.00	-117.28	87.99	58.43	-1.91	60.34	0.968 Level 1, CC, ES, SF		
2,800.00	2,776.81	2,776.81	2,776.81	6.77	55.44	115.60	-117.28	87.99	65.97	4.83	61.14	1.079 Level 2		
2,900.00	2,867.06	2,867.06	2,867.06	7.41	57.24	138.34	-117.28	87.99	94.04	33.65	60.39	1.557		
3,000.00	2,954.93	2,954.93	2,954.93	8.17	58.99	150.94	-117.28	87.99	134.73	75.14	59.59	2.261		
3,100.00	3,040.18	3,040.18	3,040.18	9.07	60.69	158.14	-117.28	87.99	183.21	124.25	58.96	3.107		
3,200.00	3,122.59	3,122.59	3,122.59	10.11	62.34	162.59	-117.28	87.99	237.57	179.25	58.32	4.073		
3,300.00	3,201.91	3,201.91	3,201.91	11.28	63.92	165.52	-117.28	87.99	296.95	239.39	57.56	5.159		
3,329.68	3,224.84	3,224.84	3,224.84	11.66	64.38	166.20	-117.28	87.99	315.46	258.16	57.30	5.506		
3,387.50	3,269.20	3,269.20	3,269.20	12.41	65.27	167.63	-117.28	87.99	351.97	293.98	57.98	6.070		
3,400.00	3,278.81	3,278.81	3,278.81	12.56	65.46	167.95	-117.28	87.99	359.85	301.49	58.36	6.166		
3,500.00	3,357.25	3,357.25	3,357.25	13.68	67.02	170.04	-117.28	87.99	421.16	359.64	61.51	6.847		
3,600.00	3,438.32	3,438.32	3,438.32	14.78	68.64	171.51	-117.28	87.99	479.19	414.36	64.84	7.391		
3,700.00	3,521.87	3,521.87	3,521.87	15.83	70.31	172.60	-117.28	87.99	533.76	465.53	68.23	7.822		
3,800.00	3,607.73	3,607.73	3,607.73	16.82	72.02	173.41	-117.28	87.99	584.72	513.06	71.66	8.159		
3,900.00	3,695.75	3,695.75	3,695.75	17.74	73.78	174.05	-117.28	87.99	631.95	556.87	75.09	8.416		
4,000.00	3,785.75	3,785.75	3,785.75	18.59	75.58	174.55	-117.28	87.99	675.34	596.86	78.48	8.605		
4,100.00	3,877.57	3,877.57	3,877.57	19.36	77.41	174.94	-117.28	87.99	714.80	632.98	81.82	8.736		
4,200.00	3,971.03	3,971.03	3,971.03	20.05	79.28	175.26	-117.28	87.99	750.24	665.15	85.09	8.817		
4,300.00	4,065.95	4,065.95	4,065.95	20.66	81.17	175.52	-117.28	87.99	781.59	693.31	88.27	8.854		
4,400.00	4,162.15	4,162.15	4,162.15	21.20	83.09	175.72	-117.28	87.99	808.79	717.44	91.35	8.853		
4,500.00	4,259.45	4,259.45	4,259.45	21.65	85.04	175.88	-117.28	87.99	831.78	737.47	94.31	8.820		
4,600.00	4,357.66	4,357.66	4,357.66	22.03	87.00	176.01	-117.28	87.99	850.52	753.39	97.13	8.757		
4,700.00	4,456.60	4,456.60	4,456.60	22.34	88.97	176.10	-117.28	87.99	864.97	765.18	99.79	8.668		
4,800.00	4,556.07	4,556.07	4,556.07	22.58	90.96	176.16	-117.28	87.99	875.10	772.82	102.28	8.556		

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



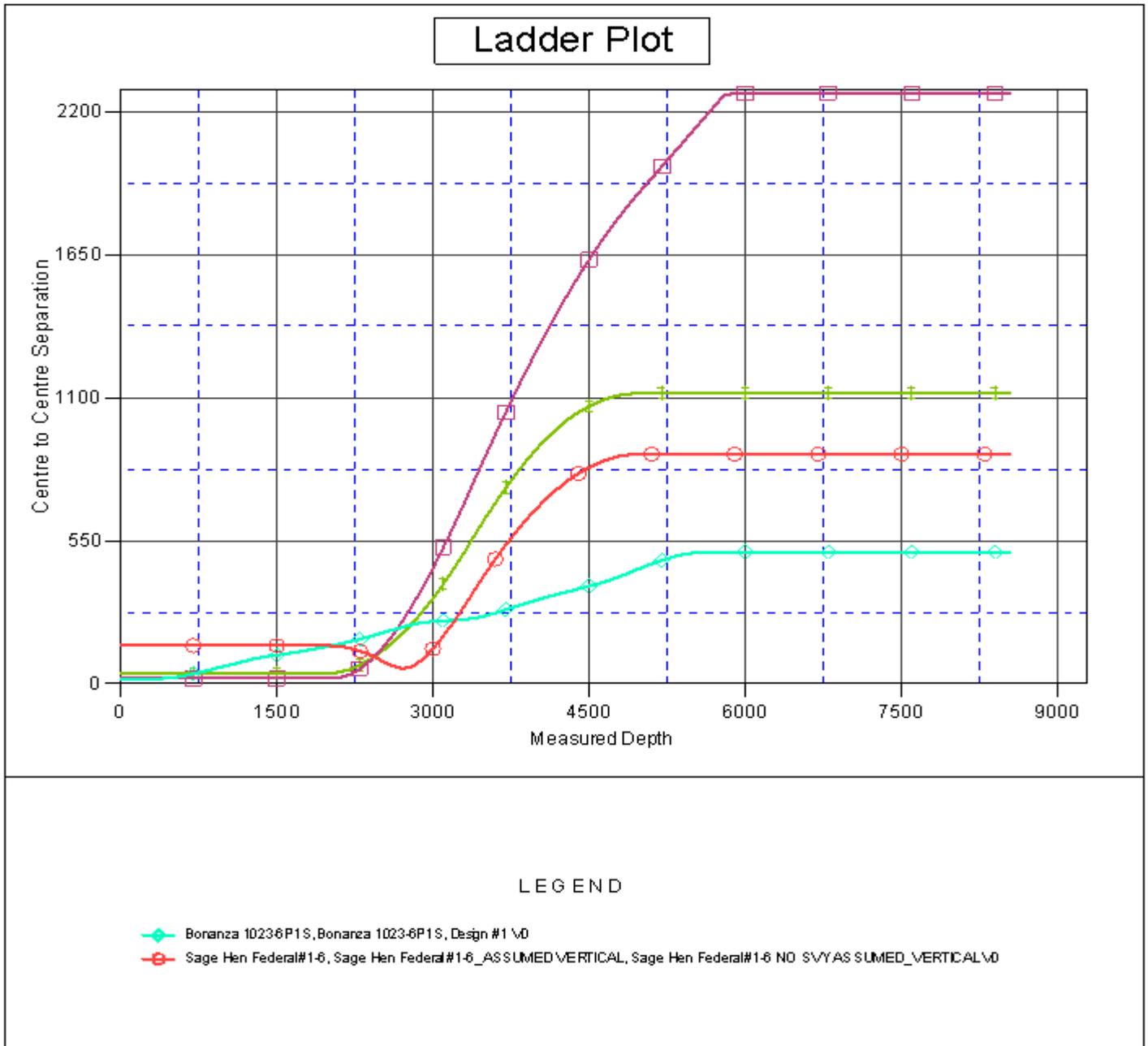
Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 10000-UNKNOWN													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		
4,900.00	4,655.90	4,655.90	4,655.90	22.76	92.95	176.19	-117.28	87.99	880.89	776.30	104.59	8.422		
4,983.12	4,739.00	4,739.00	4,739.00	22.85	94.61	-64.16	-117.28	87.99	882.40	776.05	106.35	8.297		
5,000.00	4,755.88	4,755.88	4,755.88	22.87	94.95	-64.16	-117.28	87.99	882.40	775.68	106.71	8.269		
5,100.00	4,855.88	4,855.88	4,855.88	22.97	96.94	-64.16	-117.28	87.99	882.40	773.51	108.89	8.104		
5,200.00	4,955.88	4,955.88	4,955.88	23.06	98.94	-64.16	-117.28	87.99	882.40	771.33	111.06	7.945		
5,300.00	5,055.88	5,055.88	5,055.88	23.16	100.94	-64.16	-117.28	87.99	882.40	769.15	113.24	7.792		
5,400.00	5,155.88	5,155.88	5,155.88	23.27	102.93	-64.16	-117.28	87.99	882.40	766.97	115.42	7.645		
5,500.00	5,255.88	5,255.88	5,255.88	23.37	104.93	-64.16	-117.28	87.99	882.40	764.79	117.61	7.503		
5,600.00	5,355.88	5,355.88	5,355.88	23.48	106.92	-64.16	-117.28	87.99	882.40	762.61	119.79	7.366		
5,700.00	5,455.88	5,455.88	5,455.88	23.58	108.92	-64.16	-117.28	87.99	882.40	760.42	121.97	7.234		
5,800.00	5,555.88	5,555.88	5,555.88	23.69	110.92	-64.16	-117.28	87.99	882.40	758.24	124.16	7.107		
5,900.00	5,655.88	5,655.88	5,655.88	23.80	112.91	-64.16	-117.28	87.99	882.40	756.05	126.34	6.984		
6,000.00	5,755.88	5,755.88	5,755.88	23.91	114.91	-64.16	-117.28	87.99	882.40	753.86	128.53	6.865		
6,100.00	5,855.88	5,855.88	5,855.88	24.03	116.91	-64.16	-117.28	87.99	882.40	751.67	130.72	6.750		
6,200.00	5,955.88	5,955.88	5,955.88	24.14	118.90	-64.16	-117.28	87.99	882.40	749.49	132.91	6.639		
6,300.00	6,055.88	6,055.88	6,055.88	24.26	120.90	-64.16	-117.28	87.99	882.40	747.29	135.10	6.531		
6,400.00	6,155.88	6,155.88	6,155.88	24.38	122.90	-64.16	-117.28	87.99	882.40	745.10	137.29	6.427		
6,500.00	6,255.88	6,255.88	6,255.88	24.50	124.89	-64.16	-117.28	87.99	882.40	742.91	139.48	6.326		
6,600.00	6,355.88	6,355.88	6,355.88	24.62	126.89	-64.16	-117.28	87.99	882.40	740.72	141.68	6.228		
6,700.00	6,455.88	6,455.88	6,455.88	24.74	128.89	-64.16	-117.28	87.99	882.40	738.52	143.87	6.133		
6,800.00	6,555.88	6,555.88	6,555.88	24.87	130.88	-64.16	-117.28	87.99	882.40	736.33	146.07	6.041		
6,900.00	6,655.88	6,655.88	6,655.88	24.99	132.88	-64.16	-117.28	87.99	882.40	734.13	148.26	5.952		
7,000.00	6,755.88	6,755.88	6,755.88	25.12	134.87	-64.16	-117.28	87.99	882.40	731.94	150.46	5.865		
7,100.00	6,855.88	6,855.88	6,855.88	25.25	136.87	-64.16	-117.28	87.99	882.40	729.74	152.65	5.780		
7,200.00	6,955.88	6,955.88	6,955.88	25.38	138.87	-64.16	-117.28	87.99	882.40	727.54	154.85	5.698		
7,300.00	7,055.88	7,055.88	7,055.88	25.51	140.86	-64.16	-117.28	87.99	882.40	725.35	157.05	5.619		
7,400.00	7,155.88	7,155.88	7,155.88	25.64	142.86	-64.16	-117.28	87.99	882.40	723.15	159.25	5.541		
7,500.00	7,255.88	7,255.88	7,255.88	25.77	144.86	-64.16	-117.28	87.99	882.40	720.95	161.45	5.466		
7,600.00	7,355.88	7,355.88	7,355.88	25.91	146.85	-64.16	-117.28	87.99	882.40	718.75	163.65	5.392		
7,700.00	7,455.88	7,455.88	7,455.88	26.04	148.85	-64.16	-117.28	87.99	882.40	716.55	165.85	5.321		
7,800.00	7,555.88	7,555.88	7,555.88	26.18	150.85	-64.16	-117.28	87.99	882.40	714.35	168.05	5.251		
7,900.00	7,655.88	7,655.88	7,655.88	26.32	152.84	-64.16	-117.28	87.99	882.40	712.15	170.25	5.183		
8,000.00	7,755.88	7,755.88	7,755.88	26.46	154.84	-64.16	-117.28	87.99	882.40	709.95	172.45	5.117		
8,100.00	7,855.88	7,855.88	7,855.88	26.60	156.83	-64.16	-117.28	87.99	882.40	707.74	174.65	5.052		
8,200.00	7,955.88	7,955.88	7,955.88	26.74	158.83	-64.16	-117.28	87.99	882.40	705.54	176.86	4.989		
8,300.00	8,055.88	8,055.88	8,055.88	26.88	160.83	-64.16	-117.28	87.99	882.40	703.34	179.06	4.928		
8,400.00	8,155.88	8,155.88	8,155.88	27.03	162.82	-64.16	-117.28	87.99	882.40	701.13	181.26	4.868		
8,500.00	8,255.88	8,255.88	8,255.88	27.17	164.82	-64.16	-117.28	87.99	882.40	698.93	183.47	4.810		
8,544.12	8,300.00	8,300.00	8,300.00	27.24	165.70	-64.16	-117.28	87.99	882.40	697.96	184.44	4.784		



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

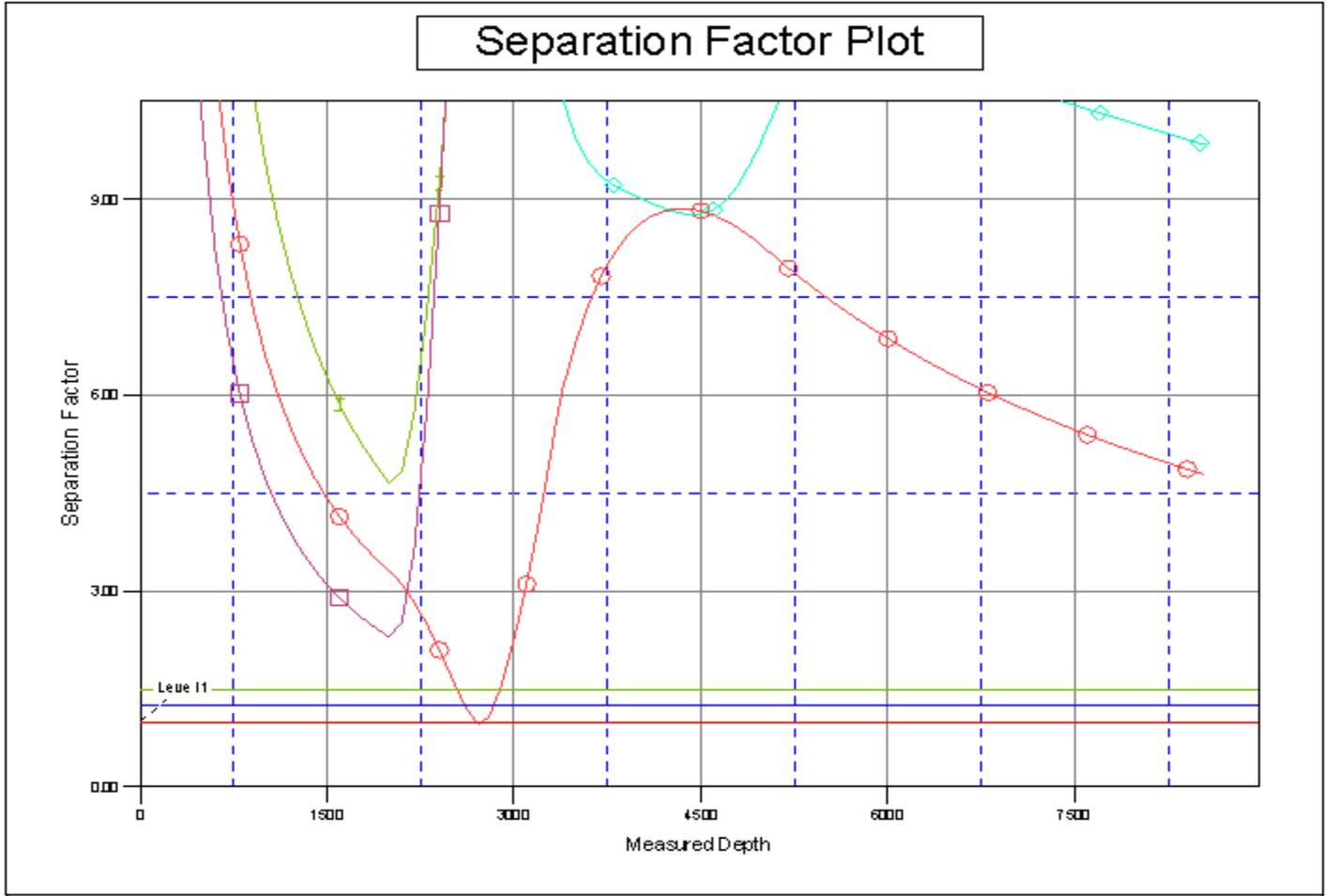
Reference Depths are relative to WELL @ 5199.00ft (Original Well Elev) Coordinates are relative to: Bonanza 1023-6I4S
 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 1.05°





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5199.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-6I Pad	MD Reference:	WELL @ 5199.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-6I4S	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5199.00ft (Original Well Elev) Coordinates are relative to: Bonanza 1023-6I4S
 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: 1.05°



LEGEND

- ◆ Bonanza 1023-6P1S, Bonanza 1023-6P1S, Design #1 \0
- Sage Hen Federal#1-6, Sage Hen Federal#1-6_ASSUMED VERTICAL, Sage Hen Federal#1-6 NO SVY ASSUMED VERTICAL \0

Bonanza 1023-6I4S

Pad: Bonanza 1023-6I

Surface: 2,078' FSL, 967' FEL (NE/4SE/4)

BHL: 1,575' FSL 85' FEL (NE/4SE/4)

Sec. 6 T10S R23E

Uintah, Utah

Mineral Lease: UTU 38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,208'	
Birds Nest	1,413'	Water
Mahogany	1,916'	Water
Wasatch	4,139'	Gas
Mesaverde	6,265'	Gas
MVU2	7,219'	Gas
MVL1	7,756'	Gas
TVD	8,300'	
TD	8,544'	

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 8,544' TD, approximately equals 4,913 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,087 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2,120	36.00	J-55	LTC	3520	2020	453000
						1.08	2.04	7.55
PRODUCTION	4-1/2"	0 to 8,544	11.60	I-80	LTC	7,780	6,350	201,000
						2.45	1.27	2.32

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,087 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 4,913 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,634'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	350	40%	11.00	3.38
	TAIL	4,910'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1200	40%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

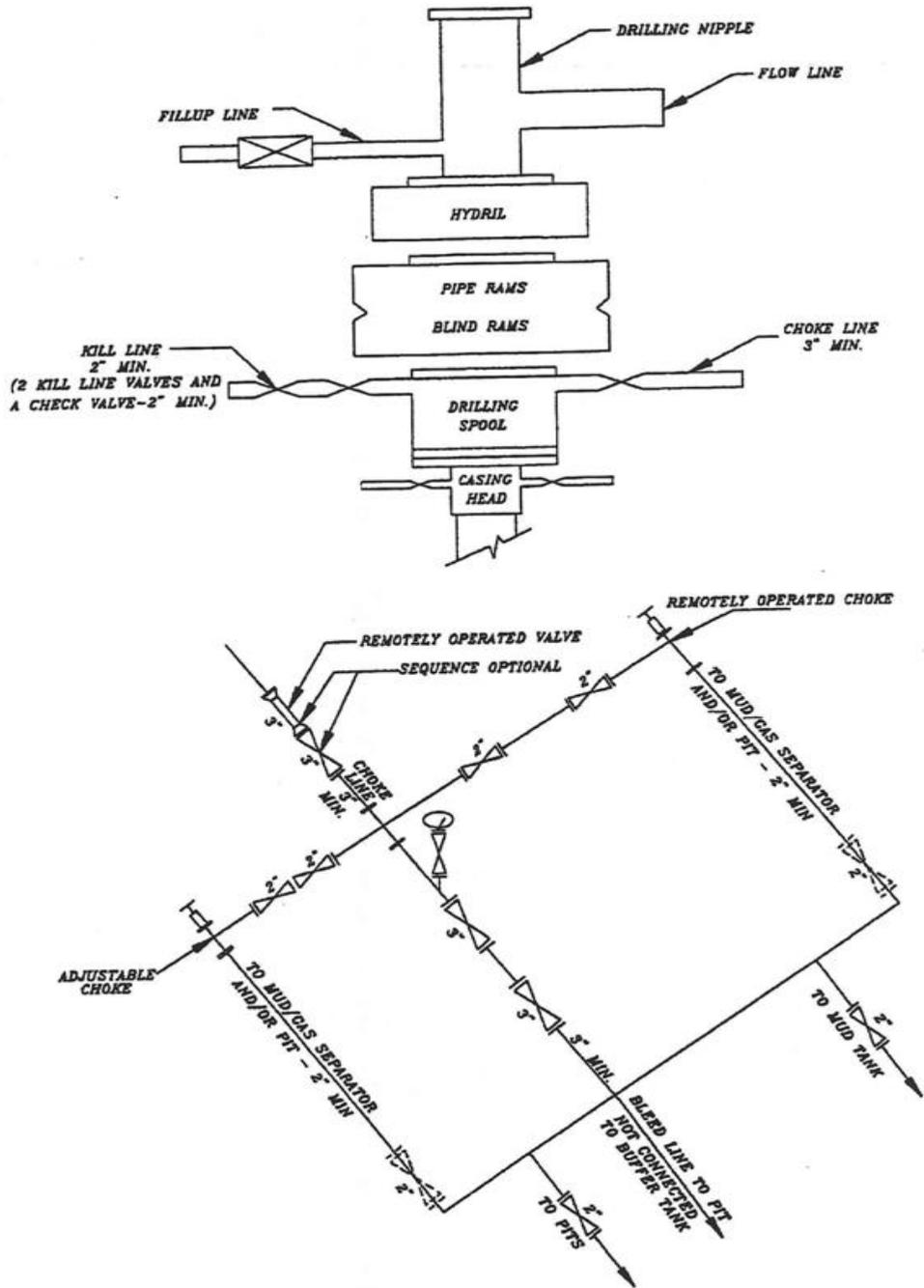
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.
 Surveys will be taken at 1,000' minimum intervals.
 Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
 John Huycke / Grant Schluender
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 John Merkel / Lovel Young

EXHIBIT A Bonanza 1023-6I4S



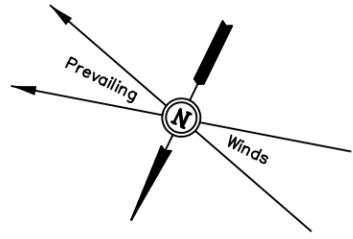
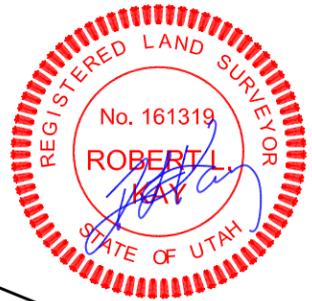
SCHMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

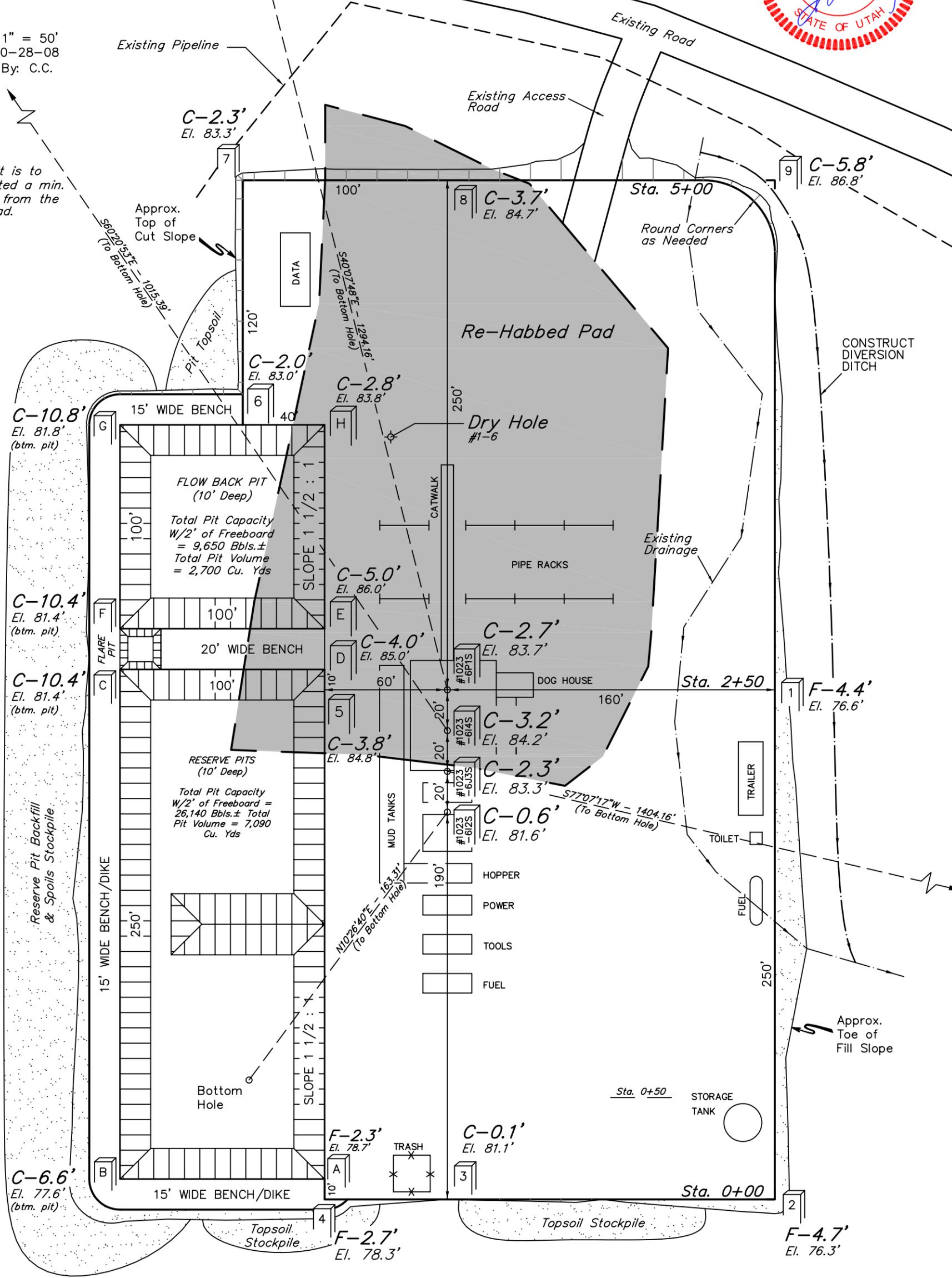
LOCATION LAYOUT FOR

BONANZA #1023-6P1S, #1023-6I4S, #1023-6J3S & #1023-6I2S
SECTION 6, T10S, R23E, S.L.B.&M.
NE 1/4 SE 1/4



SCALE: 1" = 50'
 DATE: 10-28-08
 Drawn By: C.C.

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



NAD 83 (#1-6 DRY HOLE)	
LATITUDE	= 39°58'33.86" (39.976072)
LONGITUDE	= 109°21'47.73" (109.363258)
NAD 27 (#1-6 DRY HOLE)	
LATITUDE	= 39°58'33.98" (39.976106)
LONGITUDE	= 109°21'45.28" (109.362578)

Elev. Ungraded Ground at #1023-6P1S Location Stake = **5183.7'**
 Elev. Graded Ground at #1023-6P1S Location Stake = **5181.0'**

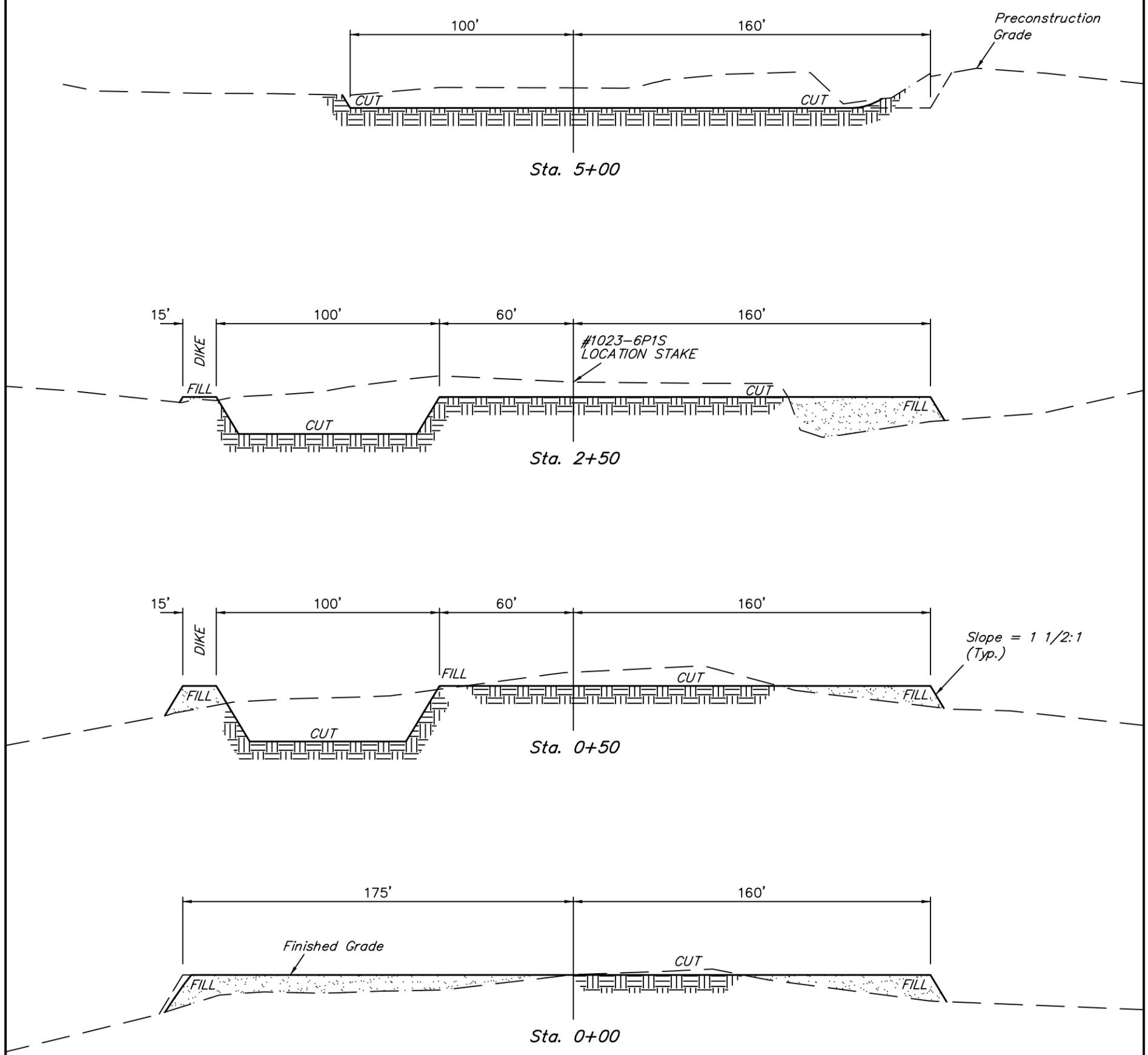
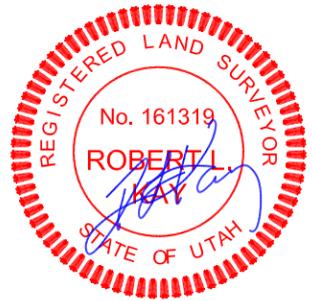
Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR

**BONANZA #1023-6P1S, #1023-6I4S, #1023-6J3S & #1023-6I2S
SECTION 6, T10S, R23E, S.L.B.&M.
NE 1/4 SE 1/4**

1" = 20'
X-Section Scale
1" = 50'
DATE: 10-27-08
Drawn By: C.C.



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES
WELL SITE DISTURBANCE = ±4.375 ACRES
PIPELINE DISTURBANCE = ±0.011 ACRES
TOTAL = ±4.386 ACRES

*** NOTE:**
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	3,210 Cu. Yds.	EXCESS MATERIAL	=	12,060 Cu. Yds.
Remaining Location	=	15,460 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.)	=	8,110 Cu. Yds.
TOTAL CUT	=	18,670 CU.YDS.	EXCESS UNBALANCE (After Interim Rehabilitation)	=	3,950 Cu. Yds.
FILL	=	6,610 CU.YDS.			

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-6P1S, #1023-6I4S,

#1023-6J3S & #1023-6I2S

LOCATED IN UTAH COUNTY, UTAH

SECTION 6, T10S, R23E, S.L.B.&M.

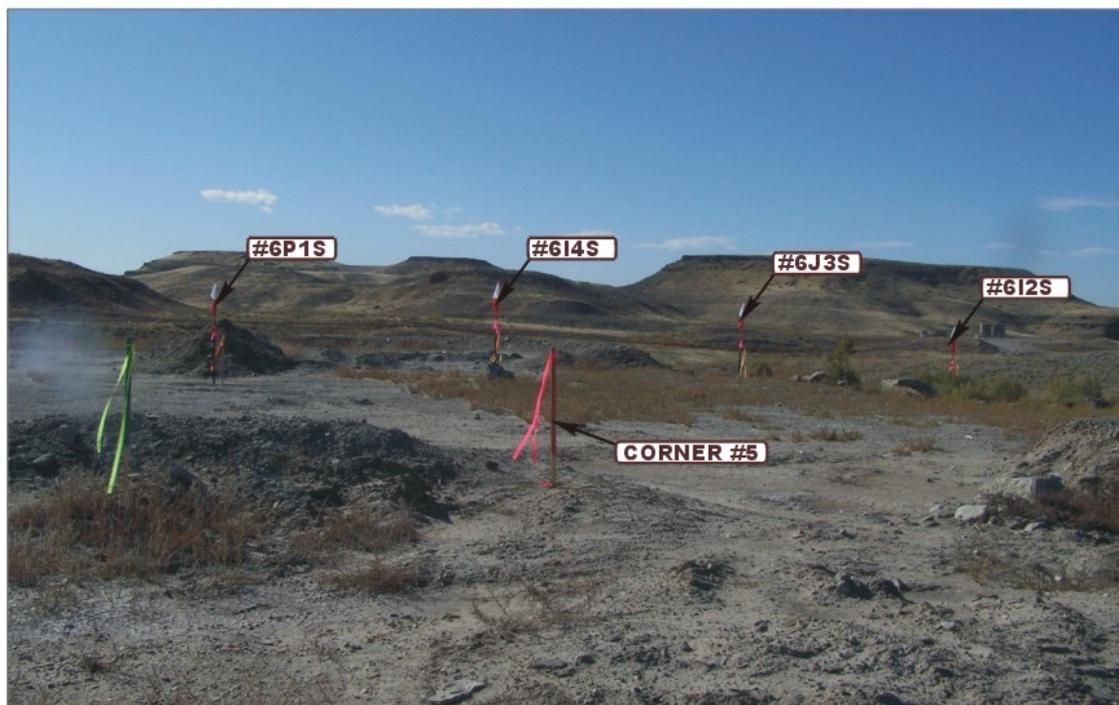


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF OF EXISTING ACCESS

CAMERA ANGLE: NORTHWESTERLY



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

- Since 1964 -

LOCATION PHOTOS	10	29	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: J.H.		REVISED: 00-00-00	

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-6P1S, #1023-6I4S,
#1023-6J3S & #1023-6I2S
LOCATED IN UTAH COUNTY, UTAH
SECTION 6, T10S, R23E, S.L.B.&M.

PIPELINE ALIGNMENT



PHOTO: VIEW OF PIPELINE TIE IN POINT

CAMERA ANGLE: NORTHERLY



- Since 1964 -

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

LOCATION PHOTOS	10	29	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: J.H.		REVISED: 00-00-00	

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-6P1S, #1023-6I4S, #1023-6J3S &
1023-6I2S
SECTION 6, T10S, R23E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.2 MILE TO THE EXISTING ACCESS TO THE NORTH; FOLLOW ROAD IN A NORTHERLY DIRECTION APPROXIMATELY 75' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 54.8 MILES.

Bonanza 1023-6I2S

Surface: 2,114' FSL 985' FEL (NE/4 SE/4)

BHL: 2,275' FSL 955' FEL (NE/4 SE/4)

Bonanza 1023-6I4S

Surface: 2,078' FSL 967' FEL (NE/4 SE/4)

BHL: 1,575' FSL 85' FEL (NE/4 SE/4)

Bonanza 1023-6J3S

Surface: 2,096' FSL 976' FEL (NE/4 SE/4)

BHL: 1,785' FSL 2,345' FEL (NW/4 SE/4)

Bonanza 1023-6P1S

Surface: 2,060' FSL 958' FEL (NE/4 SE/4)

BHL: 1,070' FSL 125' FEL (SE/4 SE/4)

Pad: Bonanza 1023-6I

Sec. 6 T10S R23E

Uintah, Utah

Mineral Lease: UTU 38419

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted in December 2008 showing the surface locations in NE/4 SE/4 of Section 6 T10S R23E.

This Surface Use Plan of Operations (SUPO) or 13-point plan is submitted under the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) and provides details specific to this pad. General information is provided in the MDP, which is available upon request and at the BLM-Vernal Field Office.

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

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

Directional Drilling:

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

This pad will be expanding the previously drilled dry-hole Bonanza 1-6 well pad (See Figure 1).

1. Existing Roads:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

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

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. There will be no turn outs.

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

Surfacing material may be necessary, depending upon weather conditions.

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

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

KMG will construct a second pit during completion operations due to the volume of fluids used with a 4-well frac. The pit will be lined and fenced per BLM requirements. KMG is also requesting the pit stay open for 1 year to utilize for additional 4 well completions in the area. If determined that the pit is not needed within the 1 year; the fluids will be removed and pit reclaimed.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee. All facilities will be painted within six months of installation. The required color is Shadow Gray, a non-reflective earthtone, or as specified by BLM. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Approximately $\pm 3,743'$ of 4" pipeline will be upgraded to 8" pipeline. Approximately $\pm 1,146'$ of 8" pipeline will be re-routed. Approximately $\pm 16'$ of new pipeline will be constructed. Refer to Topo D for the existing pipeline. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. Location and Type of Water Supply:

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

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

Surface and subsoil materials in the immediate area will be utilized.

If needed, gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

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

See MDP for additional details on Well Site Layout.

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, rig orientation, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s), and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

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.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Sundry Notice Form shall be submitted.

10. Plans for Reclamation of the Surface:

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

11. Surface/Mineral Ownership:

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

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved MDP and SUPO, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A Class III archaeological survey report and paleontological survey report is attached.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the AO. Within five (5) working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
- a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the finds of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of the mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed the operator will then be allowed to resume construction.

“The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the authorized officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the authorized officer. The authorized officer will evaluate, or will have evaluated, such discoveries not later than five (5) working days after being notified, and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measures to mitigate adverse effects to significant paleontological resources will be made by the authorized officer after consulting with the holder. The holder may be responsible for the cost of any investigations necessary for the evaluation, and for any mitigative measures.”

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

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

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

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

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

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

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

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



Kathy Schneebeck Dulnoan

June 1, 2009

Date

'APIWellNo:43047504580000'



Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779

April 6, 2009

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Exception Location R649-3-3 and Directional Drilling R649-3-11
Bonanza 1023-6I4S
T10S- R23E
Section 6: NESE
2078' FSL, 967' FEL (surface)
1575' FSL, 85' FEL (bottom hole)
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-3 and Rule R649-3-11 pertaining to the Exception to Location and Sitting of Wells.

- Kerr-McGee's Bonanza 1023-6I4S is located within the area covered by Docket No. 2008-011 authorizing the equivalent of an approximate 10-acre well density pattern, and requiring approval for wells drilled at an exception location and wells drilled directionally in accordance with the referenced rules.
- Kerr-McGee is permitting this well at this location and as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to Rule R649-3-3 and Rule R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Jessy Pink
Landman

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S FOUR PROPOSED WELL LOCATIONS:
BONANZA 1023-6I2S, 1023-6I4S, 1023-6J3S, AND 1023-6P1S
(T10S, R23E, SECTION 6)
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S FOUR PROPOSED WELL LOCATIONS:
BONANZA 1023-6I2S, 1023-6I4S, 1023-6J3S, AND 1023-6P1S
(T10S, R23E, SECTION 6)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 09-020

April 29, 2009

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

INTRODUCTION

A Class I literature review was completed by Montgomery Archaeological Consultants, Inc. (MOAC) in April 2009 of Kerr-McGee Onshore's four proposed well locations and associated pipeline corridor in Township 10S, Range 23E, Section 6. The project area is situated north of the White River and south of the town of Bonanza, Uintah County, Utah. The wells are designated Bonanza 1023-6I Directional Pad, Bonanza 1023-6I2S, Bonanza 1023-6I4S, Bonanza 1023-6J3S, and Bonanza 1023-6P1S. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Oil and Gas Onshore LP, Denver, Colorado. Land status is public land administered by the Bureau of Land Management (BLM) Vernal Field Office.

The purpose of this Class I review is to identify, classify, and evaluate the previously conducted cultural resource inventories and archaeological sites in the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The project area in which Kerr-McGee Oil and Gas Onshore's four proposed Bonanza well locations occur was previously inventoried by MOAC in 2003 for Westport Oil and Gas Company's block inventory of Sections 4, 5, 6, 7, and 8 in Township 10 South, Range 23 East (Elkins and Montgomery 2003; U-03-MQ-0882). A file search was completed by consulting MOAC's Class I existing data review of 459 square miles (293,805 acres) covering the Greater NBU study area between Bonanza and Ouray in Uintah County, northeastern Utah (Patterson et al. 2008). Kerr-McGee Oil and Gas Onshore LP proposes to explore and develop oil and natural gas resources throughout the area. Record searches were performed for this Class I project by Marty Thomas at the Utah State Historic Preservation Office (SHPO) on various dates between June 14, 2006 and January 27, 2007. The results of this Class I data review and Class III inventory indicated that two previously recorded sites (42Un3413 and 42Un3499) occur near the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated east of the White River and south of the town of Bonanza, Uintah County, Utah. The legal description is Township 10S, Range 23E, Sections 5 and 6 (Figure 1, Table 1). Land status is public land administered by the Bureau of Land Management (BLM) Vernal Field Office.

Table 1. Kerr-McGee Onshore's Four Proposed Well Locations.

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
Bonanza 1023-6I Directional Pad Bonanza 1023-6I2S Bonanza 1023-6I4S Bonanza 1023-6J3S Bonanza 1023-6P1S	NE/SE Sec. 6, T10S, R23E	Pipeline: 5198 ft	42Un3499 42Un3413

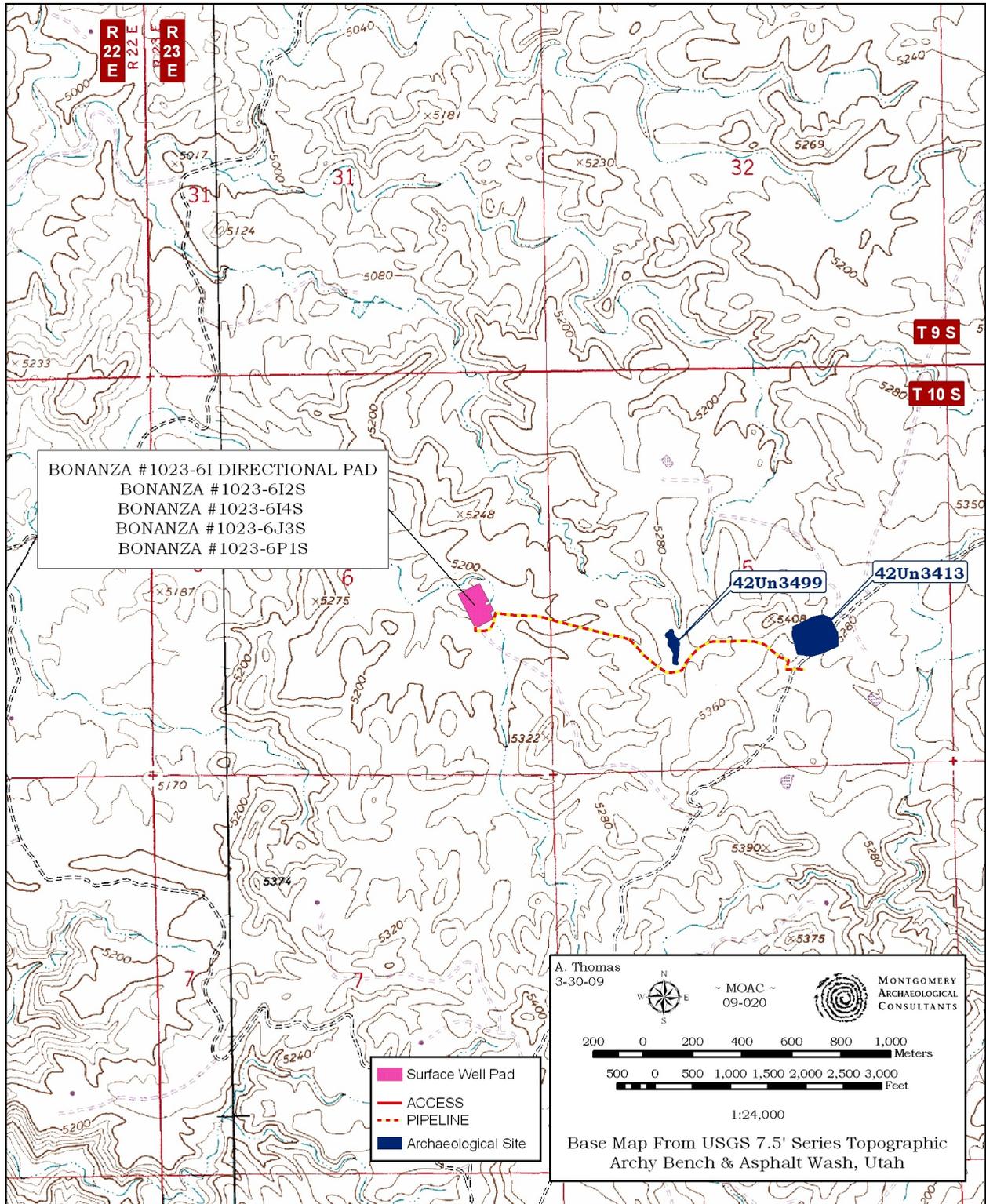


Figure 1. Kerr-McGee Oil and Gas Onshore LP's Proposed Bonanza Well Locations in Uintah County, Utah.

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits, which include Paleocene age deposits and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops (formed by fluvial deposited, stream laid interbedded sandstone and mudstone), and is known for its prolific paleontological localities. Specifically, the inventory area is situated east of the White River and southeast of the town of Ouray, Uintah County, Utah. Elevation ranges from 5200 to 5400 ft asl. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, and prickly pear cactus. Modern disturbances include livestock grazing, roads, and oil/gas development.

CLASS I RESULTS

The Class I literature review of Kerr-McGee Onshore's four proposed well locations and associated pipeline corridor resulted in the location of two previously documented sites (42Un3413 and 42Un3499).

Smithsonian Site No.: 42Un3413
Site Type: Temporary Camp
NRHP Eligibility: Eligible

Description: The site is a very large multicomponent prehistoric and historic temporary camp situated over varied topography including ridgetops, benches, slopes, and drainages. The prehistoric component of the site was divided into two loci (Locus A and Locus B). Between the two loci, a total of 36 tools were recorded. Lithic debitage was most dense in Locus B, therefore a tally of lithic flakes was done only for Locus B. This tally resulted in 32 lithic flakes dominated by the tertiary stage of reduction, with secondary flakes, angular debris, and flake fragments also present. No prehistoric cultural features were observed. The historic component likely dates between 1904 and 1985 based on diagnostic artifacts. It consists of three historic trash concentrations, and two hearths (Features 1 and 2). Feature 1 is a hearth consisting of a semi-circular ring of thermally altered siltstone and sandstone which measures 1 m in diameter (exterior) and 40 cm diameter (interior). There are ten rocks ranging in size between 10 x 3 cm to 30 x 20 cm. The hearth opens to the SW, and is located within Trash Concentration 1. Wood pieces (n=5) were observed 10-20 m to the northeast. Feature 2 is a hearth consisting of a semi-circular ring of thermally altered rock measuring 1 m diameter (exterior) and 25 cm diameter (interior). There are only three sandstone rocks ranging in size from 60 x 20 x 10 cm to 25 x 15 x 5 cm. Two nails (1 3/16" and 1 11/16" in length) were observed next to the hearth. Feature 2 is located within Trash Concentration 2. Trash Concentration 1 consists of a hole-in-top evaporated milk can dating from 1915-1930, hole-in-top evaporated milk cans dating from 1975-1985 (n=2), hole-in-cap milk and food cans (n=6), sanitary food cans, a sanitary cocoa can, a sanitary lard can embossed with CANCO (post-1910), sanitary cut-around food cans (n=3), hay bale wire, a wire handle, and very light blue thin glass fragments of unknown function (n=15). Feature 1, a hearth, is located within this trash concentration. Trash Concentration 2 consists of one hole-in-top evaporated milk can dating from 1915-1930, sanitary cut-around food cans (n=3), a sanitary lard can embossed with "CANCO" (post-1910), tobacco tins (post-1910, n=4), one sanitary cut-around food can lid, two wire nails measuring 1 3/16" and 1 11/16" long, one hay bale wire piece, and one rifle cartridge with the mark, "W.R.A. Co. 25-30 W.C.F." dating pre-1932. Trash Concentration 3 consists of one hole-in-

top evaporated milk cans dating from 1915-1930, sanitary knife-cut and church key opened juice or beverage cans (n=2), a sanitary lard can embossed with "CANCO" (post-1910), and a sanitary cut-around food can embossed with "SANITARY" (1904-1908).

Avoidance: The site is outside of the undertaking; its boundary was flagged with blue surveyors ribbon to facilitate avoidance.

Smithsonian Site No.: 42Un3499
Site Type: Temporary Camp
NRHP Eligibility: Eligible

Description: This site is a prehistoric temporary camp located on the east-facing slope of a low ridge and running north to south. The artifact assemblage consists of 22 tools and 37 pieces of debitage. Test cores are the dominant tool (n=11). The second largest artifact type are single-handed manos (n=4) with ground surfaces ranging from lightly used to heavily used and none exhibiting signs of pecking. Other lithic tools include three bifaces from Stage III to V, one utilized flake that may have been used as an expedient scraper, one unknown projectile point fragment, one portable slab milling stone with a slightly ground use surface, and one uniface. The debitage at the site is dominated by core reduction flakes and shatter. The material types present include white opaque chert, grey/tan opaque chert, brown/red opaque chert, grey fine-grained siltstone, black opaque chert, orange opaque chert with black striations, white/yellow coarse-grained quartzite, yellow fine-grained siltstone, and pink coarse-grained quartzite. There are four features at the site which include storage cists with upright slabs (some of which are buried) (Features 1 through 3), and a linear rock alignment (Feature 4). No soil staining or charcoal was observed at any of the features. Feature 1 is a slab-lined cist consisting of a circular alignment of upright embedded sandstone rocks. Five of these rocks form the outside ring with a diameter of 1.3 m. There is a collapsed vertical slab laying outward that measures 17 x 25 cm on the south side of the cist. On the north side, there are two slabs adjacent to each other measuring 50 cm long and 30 cm long with a visible width of about 10-15 cm. The east side of the cist consists of one tabular vertical buried slab that is obscured by sagebrush. The west side consists of one tabular vertical slab measuring 40 cm long north-south and 10 cm wide at the visible portion. There are 16-18 smaller rocks on the interior surface that are naturally occurring and not associated with the feature. No charcoal or stained soil is associated with this feature and the nearest tools are 10 m away either north or south. Feature 2 is a collapsed cist in an 80 cm circular area with fire-cracked rock and two buried upright slabs. There are two upright small slabs on the north side measuring 18 x 8 cm and 10 x 8 cm. Eight other rocks are lying on the ground in and around the feature, two of which appear oxidized. One of these rocks is a flat thin slab of quartzitic sandstone measuring 15 x 20 cm. There is no soil staining or charcoal associated with Feature 2 and Tool 6 is located about 8 m to the northeast. Feature 3 is a buried cist consisting of 10 rocks in a circular alignment with a diameter of 1 m. Six of the rocks appear to be upright but are significantly buried. The largest visible rock measures 28 x 18 cm and the largest embedded rock measures 30 x 4 cm (IC). There is no charcoal or soil staining present within the cist. The feature sits on a 3 degree slope and Tools 9 and 6 are within 5 m of the feature to the north and southeast. Feature 4 is a linear rock alignment of four rocks measuring 80 cm long east-west and 30 cm wide north-south. The rocks range in size from 10-28 cm long and 12-20 cm wide and are partially buried. The feature is on a northeast-facing 3 degree slope. Tool 19 is less than 1 m away to the northwest. Tools 18 and 20 are within 5 m east of this alignment. There were no diagnostic artifacts present to accurately date the site or assign a cultural affiliation.

Avoidance: The site is outside of the undertaking.

CLASS I MANAGEMENT RECOMMENDATIONS

In conclusion the Class I literature review of Kerr-McGee Oil & Gas Onshore LP's four proposed well locations with associated pipeline corridor resulted in the location of two previously recorded sites (42Un3413 and 42Un3499). It is recommended that both sites be avoided by the undertaking. Furthermore, it is recommended site 42Un3499 be monitored by a qualified archaeologist if the existing pipeline through the site is removed. Based on adherence to the above recommendations, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, CFR 800.

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IPC #09-01

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Multi-Well Pads, Access Roads,
Pipelines, and Pipeline Upgrades for "Bonanza #1023-6P1S,
6I4S, 6J3S, & 6I2S; #1023-07L3DS, M2AS, N2AS, &
N2DS; #1023-8B2AS, 8B1AS, 8A4BS & 8A1DS; &
#1023-10B4BS, B4AS, H2CS, & H1BS"
(Sec. 6-8, 10, & 11, T 10 S, R 23 E)**

Archy Bench & Asphalt Wash
Topographic Quadrangles
Uintah County, Utah

March 6, 2009

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

INTRODUCTION

At the request of Raleen White of Kerr McGee Onshore LP and authorized by the BLM Vernal Field Office and James Kirkland of the Office of the State Paleontologist, a paleontological reconnaissance survey of Kerr McGee's proposed multi-well pads, access roads, pipelines, and pipeline upgrades for "Bonanza #1023-6P1S, 6I4S, 6J3S, & 6I2S; #1023-07L3DS, M2AS, N2AS, & N2DS; #1023-8B2AS, 8B1AS, 8A4BS & 8A1DS; & #1023-10B4BS, B4AS, H2CS, & H1BS" (Sec. 6-8, 10, & 11, T 10 S, R 23 E) was conducted by Simon Masters and Amanda Dopheide on February 24, 2009. The reconnaissance survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT08-006C and Utah Paleontological Investigations Permit #07-356. This survey to locate, identify and evaluate paleontological resources was done to meet requirements of the National Environmental Policy Act of 1969 and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

As mandated by the Federal and State government, paleontologically sensitive geologic formations on State lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321.et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579);
- 3) The National Historic Preservation Act. 16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320; and
- 4) The Utah Geological Survey. S. C. A.: 63-73-1. (1-21) and U.C.A.: 53B-17-603

BLM, 2008: BLM IM 2009-011 Assessment and Mitigation of Potential Impacts to Paleontological Resources. USDI – BLM Washington Office directive, October 29, 2008 replaces the Condition Classification System from Handbook H-8270-1. The following section outlines the new Potential Fossil Yield Classification (PFYC) System. Geologic units are classified based on the relative abundance of vertebrate fossils or scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts, with a higher class number indicating a higher potential.

- **Class 1 – Very Low.** Geologic units (igneous, metamorphic, or Precambrian) not likely to contain recognizable fossil remains.
- **Class 2 – Low.** Sedimentary geologic units not likely to contain vertebrate fossils or scientifically significant non-vertebrate fossils. (Including modern eolian, fluvial, and colluvial deposits etc...)
- **Class 3 – Moderate or Unknown.** Fossiliferous sedimentary geologic units where fossil content varies in significance, abundance, and predictable occurrence; or sedimentary units of unknown fossil potential.

- **Class 3a – Moderate Potential.** The potential for a project to be sited on or impact a significant fossil locality is low, but is somewhat higher for common fossils.
- **Class 3b – Unknown Potential.** Units exhibit geologic features and preservational conditions that suggest significant fossils could be present, but little information about the paleontological resources of the unit or the area is known.
- **Class 4 – High.** Geologic units containing a high occurrence of vertebrate fossils or scientifically significant invertebrate or plant fossils, but may vary in abundance and predictability.
 - **Class 4a** – Outcrop areas with high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
 - **Class 4b** – Areas underlain by geologic units with high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.
- **Class 5 – Very High.** Highly fossiliferous geologic units that consistently and predictably produce vertebrate fossils or scientifically significant invertebrate or plant fossils.
 - **Class 5a** - Outcrop areas with very high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
 - **Class 5b** - Areas underlain by geologic units with very high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.

It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

LOCATION

Kerr McGee's proposed multi-well pads, access roads, pipelines, and pipeline upgrades for "Bonanza #1023-6P1S, 6I4S, 6J3S, & 6I2S; #1023-07L3DS, M2AS, N2AS, & N2DS; #1023-8B2AS, 8B1AS, 8A4BS & 8A1DS; & #1023-10B4BS, B4AS, H2CS, & H1BS" (Sec. 6-8, 10, & 11, T 10 S, R 23 E) are on lands managed by the BLM and the State of Utah Trust Lands Administration (SITLA), about 1-5 miles east of the White River as well as 1-3 miles north of the White River, 1-3 miles north of Saddletree Draw and Asphalt Wash, and about 9-15 miles southwest of Bonanza, UT. The project area can be found on the Archy Bench and Asphalt Wash 7.5 minute U. S. Geological Survey Quadrangle Maps, Uintah County, Utah.

PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) ranging in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992) and fauna (Black and Dawson, 1966) of North America.

GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded, coarse-grained sandstone and conglomerates preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929) and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands and fluvial clays, muds, and sands in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931; Kay 1934). More recent work focused on magnetostratigraphy, radioscopic chronology and continental biostratigraphy (Flynn, 1986; Prothero, 1996). Well-known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, LaPoint and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleo-magnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

FIELD METHODS

In order to determine if the proposed project area contained any paleontological resources, a reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces and are of particular importance.

PROJECT AREA

The project area is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation. The following list provides a description of the individual multi-well pads and their associated pipelines, pipeline upgrades, and access roads.

Bonanza #1023-6P1S, 6I4S, 6J3S, & 6I2S

The multi-well pad is located in the NE/SE quarter-quarter section of Sec. 6, T 10 S, R 23 E (Figure 1). The well pad is staked on previously disturbed soil and colluvium and gravel to cobble sized pieces of purple varnished, tan sandstone. An outcrop of massive, subangular, coarse-grained, purple varnished, tan sandstone was observed approximately 20 feet east of the center stakes. No fossils were found.

Bonanza #1023-07L3DS, M2AS, N2AS, & N2DS

The proposed pipeline diverges from an existing pipeline and travels approximately 150 feet southwest where it ties into the proposed multi-well pad is located on the “Bonanza #1023-7L” well pad in the NW/SW quarter-quarter section for Sec. 7, T 10 S, R 23 E (Figure 1). The proposed pipeline was staked on relatively flat ground covered by colluvium and gravel to cobble sized pieces of purple siltstone. The well pad is staked on previously disturbed soil. No fossils were found.

Bonanza #1023-8B2AS, 8B1AS, 8A4BS & 8A1DS

The proposed multi-well pad is located in the NE/NE quarter-quarter section of Sec. 8, T 10 S, R 23 E (Figure 1). A portion of the well pad is staked on previously disturbed soil. The pad extension is staked primarily on colluvium that is covered with grass, sage, and gravel to cobble sized pieces of green-gray mudstone; purple siltstone; and tan, medium-grained sandstone. A small outcrop of tan, sub-rounded, medium-grained sandstone was observed approximately 8 feet southeast of the existing pad. No fossils were found.

Bonanza #1023-10B4BS, B4AS, H2CS, & H1BS

The proposed multi well pad is located on the existing well pad for “Bonanza #1023-10A” in the NE/NE quarter-quarter section of Sec. 10, T 10 S, R 23 (Figure 2). The well pad is staked on previously disturbed soil. No fossils were found.

SURVEY RESULTS

PROJECT	GEOLOGY	PALEONTOLOGY
<p>“Bonanza #1023-6P1S, 6I4S, 6J3S, & 6I2S” (Sec. 6, T 10 S, R 23 E)</p>	<p>The well pad is staked on previously disturbed soil and colluvium and gravel to cobble sized pieces of purple varnished, tan sandstone. An outcrop of massive, subangular, coarse-grained, purple varnished, tan sandstone was observed approximately 20 feet east of the center stakes.</p>	<p>No fossils were found. Class 3a</p>
<p>“Bonanza #1023-07L3DS, M2AS, N2AS, & N2DS” (Sec. 7, T 10 S, R 23 E)</p>	<p>The proposed pipeline was staked on relatively flat ground covered by colluvium and gravel to cobble sized pieces of purple siltstone. The well pad is staked on previously disturbed soil.</p>	<p>No fossils were found. Class 3a</p>
<p>“Bonanza #1023-8B2AS, 8B1AS, 8A4BS & 8A1DS” (Sec. 8, T 10 S, R 23 E)</p>	<p>A portion of the well pad is staked on previously disturbed soil. The pad extension is staked primarily on colluvium that is covered with grass, sage, and gravel to cobble sized pieces of green-gray mudstone; purple siltstone; and tan, medium-grained sandstone. A small outcrop of tan, sub-rounded, medium-grained sandstone was observed approximately 8 feet southeast of the existing pad.</p>	<p>No fossils were found. Class 3a</p>

<p>“Bonanza #1023-10B4BS, B4AS, H2CS, & H1BS” (Sec. 10 & 11, T 10 S, R 23 E)</p>	<p>The well pad is staked on previously disturbed soil.</p>	<p>No fossils were found. Class 3a</p>
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RECOMMENDATIONS

A reconnaissance survey was conducted for Kerr McGee’s proposed multi-well pads, access roads, pipelines, and pipeline upgrades for “Bonanza #1023-6P1S, 6I4S, 6J3S, & 6I2S; #1023-07L3DS, M2AS, N2AS, & N2DS; #1023-8B2AS, 8B1AS, 8A4BS & 8A1DS; & #1023-10B4BS, B4AS, H2CS, & H1BS” (Sec. 6-8,10, & 11 , T 10 S, R 23 E). The well pads and the associated access roads, pipeline upgrades, and pipelines covered in this report showed no signs of vertebrate fossils. Therefore, we recommend that no paleontological restrictions should be placed on the development of the projects included in this report.

Buried pipeline will encounter Uinta formational sediments along most of the staked pipeline corridors yet indications from surface fossils predict that little if any vertebrate fossils will be disturbed.

Nevertheless, if any vertebrate fossil(s) are found during construction within the project area, Operator (Lease Holder) will report all occurrences of paleontological resources discovered to a geologist with the Vernal Field Office of the BLM and the Office of the State Paleontologist. The operator is responsible for informing all persons in the areas who are associated with this project of the requirements for protecting paleontological resources. Paleontological resources found on the public lands are recognized by the BLM and State as constituting a fragile and nonrenewable scientific record of the history of life on earth, and so represent an important and critical component of America's natural heritage. These resources are afforded protection under 43 CFR 3802 and 3809, and penalties possible for the collection of vertebrate fossils are under 43 CFR 8365.1-5.

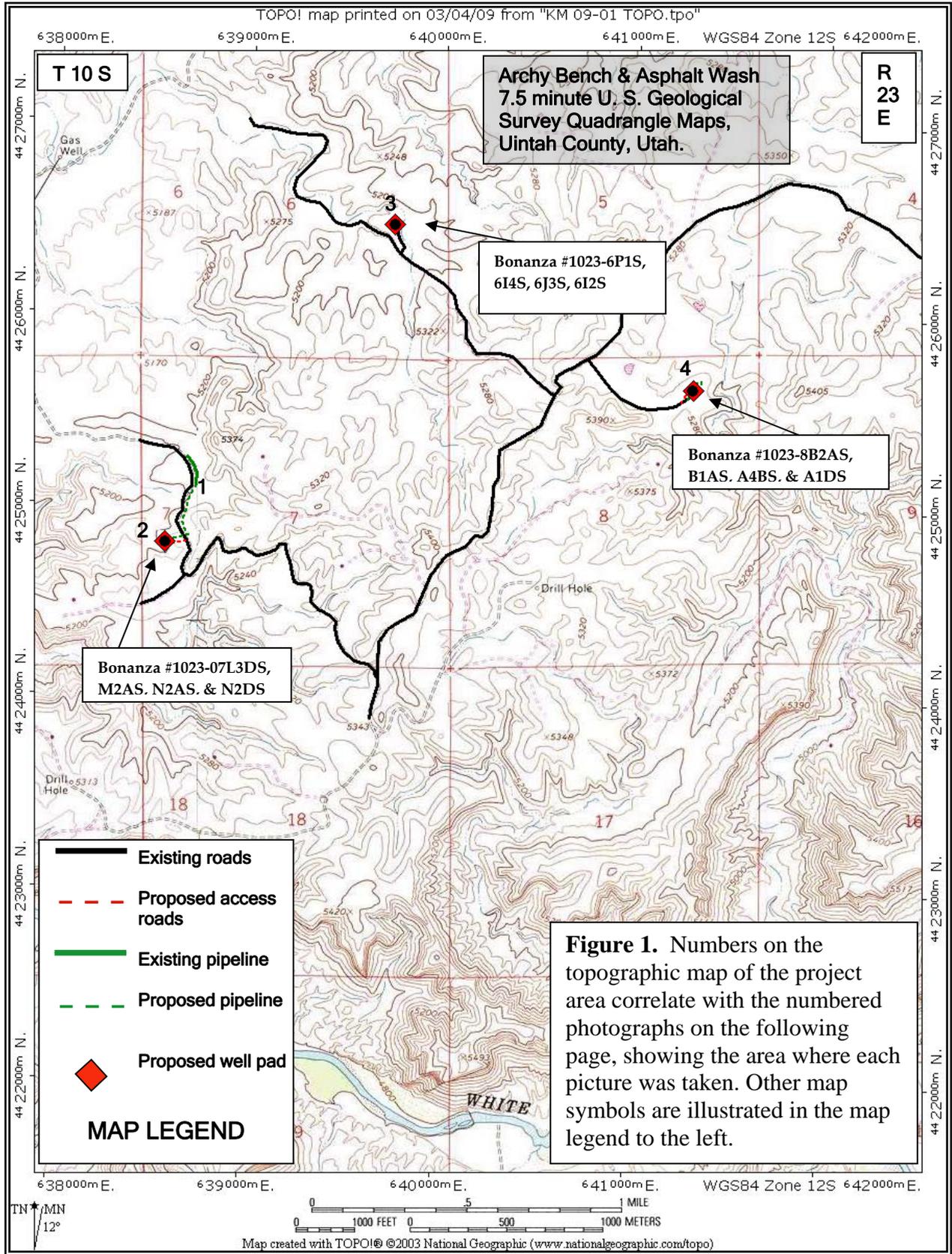


Figure 1. *continued...*



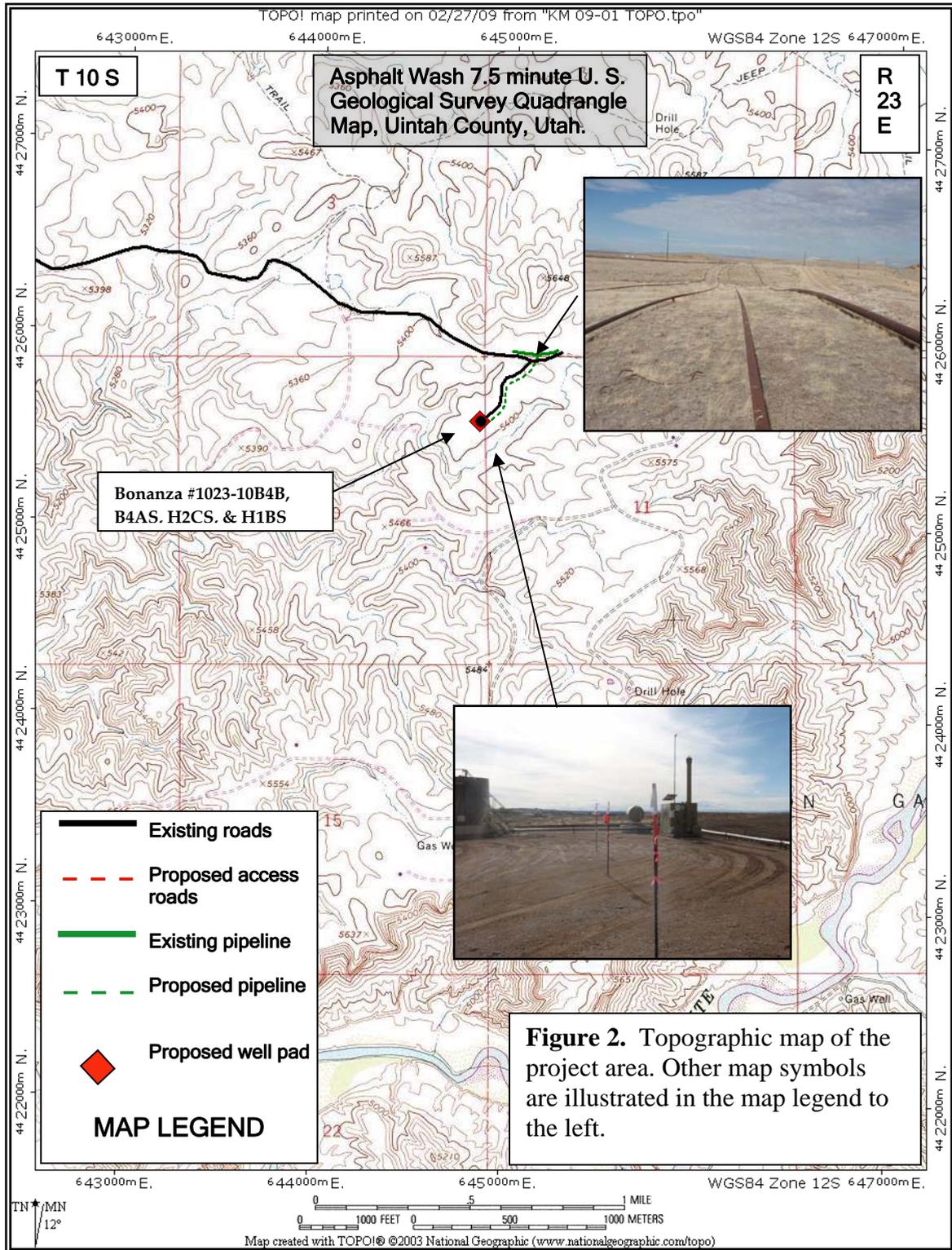
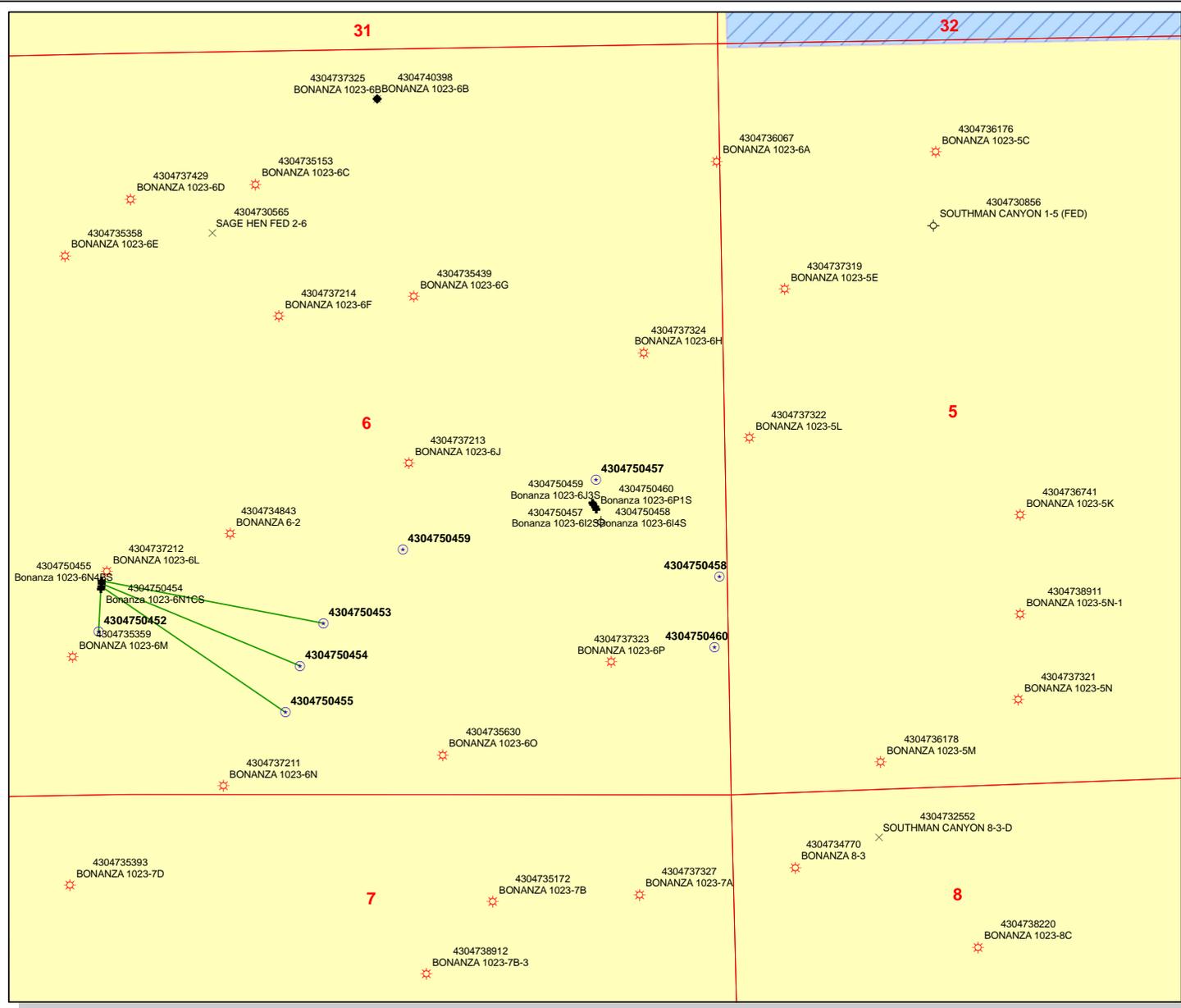


Figure 2. Topographic map of the project area. Other map symbols are illustrated in the map legend to the left.

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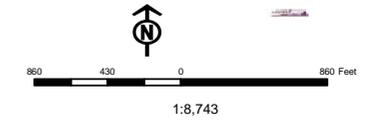
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API Number: 4304750458
Well Name: Bonanza 1023-6I4S
Township 10.0 S Range 23.0 E Section 6
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	GIS_STAT_TYPE
ACTIVE	<Null>
EXPLORATORY	APD
GAS STORAGE	DRL
NF PP OIL	GI
NF SECONDARY	GS
PI OIL	LA
PP GAS	NEW
PP GEOTHERM	OPS
PP OIL	PA
SECONDARY	PGW
TERMINATED	POW
Sections	RET
	SGW
	SOW
	TA
	TW
	WD
	WI
	WS



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/2/2009

API NO. ASSIGNED: 43047504580000

WELL NAME: Bonanza 1023-6I4S

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NESE 6 100S 230E

Permit Tech Review:

SURFACE: 2078 FSL 0967 FEL

Engineering Review:

BOTTOM: 1575 FSL 0085 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97630

LONGITUDE: -109.36302

UTM SURF EASTINGS: 639788.00

NORTHINGS: 4426200.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 38419

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Bonanza 1023-6I4S
API Well Number: 43047504580000
Lease Number: UTU 38419
Surface Owner: FEDERAL
Approval Date: 6/17/2009

Issued to:

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

Authority:

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

Duration:

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

Commingle:

In accordance with Board Cause No. 179-14, completion into and commingling of production from the Wasatch and Mesaverde formations is allowed.

General:

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

Conditions of Approval:

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

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

Notification Requirements:

Notify the Division within 24 hours of spudding the well.

API Well No: 43047504580000

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

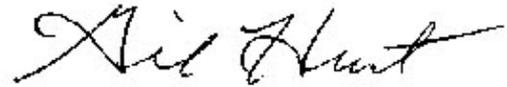
Notify the Division prior to commencing operations to plug and abandon the well.

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

Reporting Requirements:

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

Approved By:

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

Gil Hunt
Associate Director, Oil & Gas

<p>STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</p>	<p>FORM 9</p>
<p>SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>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.</p>	<p>5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419</p>
	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</p>
	<p>7. UNIT or CA AGREEMENT NAME:</p>
<p>1. TYPE OF WELL Gas Well</p>	<p>8. WELL NAME and NUMBER: Bonanza 1023-6I4S</p>
<p>2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.</p>	<p>9. API NUMBER: 43047504580000</p>
<p>3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</p>	<p>PHONE NUMBER: 720 929-6007 Ext</p>
<p>4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 0967 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 6 Township: 10.0S Range: 23.0E Meridian: S</p>	<p>9. FIELD and POOL or WILDCAT: NATURAL BUTTES</p>
	<p>COUNTY: UINTAH</p>
	<p>STATE: UTAH</p>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/17/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

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: June 23, 2010

By: 

<p>NAME (PLEASE PRINT) Danielle Piernot</p>	<p>PHONE NUMBER 720 929-6156</p>	<p>TITLE Regulatory Analyst</p>
<p>SIGNATURE N/A</p>	<p>DATE 6/17/2010</p>	



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 43047504580000

API: 43047504580000

Well Name: Bonanza 1023-6I4S

Location: 2078 FSL 0967 FEL QTR NESE SEC 6 TWNP 100S RNG 230E MER S

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

Date Original Permit Issued: 6/17/2009

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

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot

Date: 6/17/2010

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

Date: June 23, 2010

By:

[Handwritten signature]

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Bonanza 1023-6I4S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504580000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 0967 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 6 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/17/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:

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

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

Date: June 23, 2010

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/17/2010	



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 43047504580000

API: 43047504580000

Well Name: Bonanza 1023-6I4S

Location: 2078 FSL 0967 FEL QTR NESE SEC 6 TWNP 100S RNG 230E MER S

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Date Original Permit Issued: 6/17/2009

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- 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

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

Signature: Danielle Piernot

Date: 6/17/2010

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

Date: June 23, 2010

By:

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 08 2009
MC

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU38419
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE Contact: KATHY SCHNEEBECK DULNOAN Email: kathy.schneebeckdulnoan@anadarko.com		7. If Unit or CA Agreement, Name and No. UTU60768
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		8. Lease Name and Well No. BONANZA 1023-614S
3b. Phone No. (include area code) Ph: 720-929-6007 Fx: 720-929-7007		9. API Well No. 43-047-50458
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NESE 2078FSL 967FEL 39.97639 N Lat, 109.36357 W Lon At proposed prod. zone NESE 1575FSL 85FEL 39.97502 N Lat, 109.36043 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 24 MILES SOUTHEAST OF OURAY, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) APPROXIMATELY 85' TO LEASE LINE	16. No. of Acres in Lease 516.80	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well 321.10	13. State UT	19. Proposed Depth 8544 MD 8300 TVD
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 510'	20. BLM/BIA Bond No. on file WYB000291	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5184 GL
22. Approximate date work will start 07/06/2009	23. Estimated duration 60-90 DAYS	

24. Attachments

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

- 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) KATHY SCHNEEBECK DULNOAN Ph: 720-929-6007	Date 06/03/2009
--	---	--------------------

Title
STAFF REGULATORY ANALYST

Approved by (Signature) 	Name (Printed/Typed) James H. Sparger	Date JUN 22 2010
-----------------------------	--	---------------------

Title
ACTING 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 #70491 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 06/04/2009 (09GXJ4705AE)

NOTICE OF APPROVAL

JUN 28 2010

DIV. OF OIL, GAS & MINING

UDOGM

** BLM REVISED **

095X50322 A NOS: 12-08-2008



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
Well No: Bonanza 1023-614S
API No: 43-047-50458

Location: NESE, Sec.6, T10S, R23E
Lease No: UTU-38419
Agreement: CR-3

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 2/5/2007. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 2/5/2012 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

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

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

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

Interim Reclamation seed mix

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

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

- In order to protect the edge of the pad rip-rap will be placed along corner 9 and along the side of the pad until the constructed diversion ditch meets the undisturbed drainage.
- 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.

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

SITE SPECIFIC DOWNHOLE COAs:

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

Variances Granted:

Air Drilling:

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

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ $\frac{1}{4}$, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

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.

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number BONANZA 1023-614S
 Qtr/Qtr NESE Section 6 Township 10S Range 23E
 Lease Serial Number UTU-38419
 API Number 4304750458

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

Date/Time 09/18/2010 12:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

SEP 16 2010

DIV. OF OIL, GAS & MINING

Date/Time 09/26/2010 14:00 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 KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Bonanza 1023-6I4S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504580000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 0967 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/19/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX
 SPUD WELL LOCATION ON SEPTEMBER 19, 2010 AT 09:00 HRS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 September 22, 2010

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/22/2010	

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750457	BONANZA 1023-6I2S		NESE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17790</i>	9/18/2010		<i>10/11/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 9/18/2010 AT 15:00 HRS. <i>BHL= NESE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750459	BONANZA 1023-6J3S		NESE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17791</i>	9/18/2010		<i>10/11/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 9/18/2010 AT 10:00 HRS. <i>BHL= NWSE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750458	BONANZA 1023-6I4S		NESE	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17792</i>	9/19/2010		<i>10/11/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 9/19/2010 AT 9:00 HRS. <i>BHL= NESE</i>							

ACTION CODES:

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

ANDY LYTLE

Name (Please Print)

AL
Signature

REGULATORY ANALYST

9/22/2010

Title

Date

RECEIVED

SEP 23 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-614S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504580000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 0967 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/13/2010			

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

MIRU PROPETRO AIR RIG ON DECEMBER 11, 2010. DRILLED 12 1/4" SURFACE HOLE TO 2127'. RAN 9 5/8" 40# J-55 SURFACE CSG. PUMP 50 BBL FRESH WATER. PUMP 20 BBL GEL WATER. PUMP 250 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY & DISPLACE W/ 156 BBL WATER. PARTIAL RETURNS, BUMP PLUG & HOLD 600 PSI FOR 5 MIN. FLOAT HELD. TOP OUT W/ 200 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. WOC. TOP OUT #2 W/ 150 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. WOC. TOP OUT #3 W/ 150 SX CLASS G PREM @ 15.8 PPG, 1.15 YD DOWN BACKSIDE. WOC. TOP OUT #4 W/ 125 SX SAME CEMENT. CEMENT TO SURFACE. WORT.

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

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 12/14/2010	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU38419

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

8. Well Name and No.
BONANZA 1023-614S

9. API Well No.
43-047-50458

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
KERR-MCGEE OIL & GAS ONSHORE
Contact: DANIELLE E PIERNOT
Email: danielle.piernot@anadarko.com

3a. Address
PO BOX 173779
DENVER, CO 80202

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

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 6 T10S R23E NESE 2078FSL 967FEL

11. County or Parish, and State
UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to run 9 5/8" 40# casing for this well location instead of the originally permitted 36# surface casing (remains 9 5/8"). Please contact the undersigned with any questions and/or comments. Thank you.

COPY SENT TO OPERATOR

Date: 1-6-2011

Initials: KS

Accepted by the
Wildcat Division of
Oil, Gas and Mining
Date: 1/3/2011
By: [Signature]

Federal Approval Of This
Action Is Necessary

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #98260 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (Printed/Typed) DANIELLE E PIERNOT

Title REGULATORY ANALYST I

Signature (Electronic Submission)

Date 11/29/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

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

Office

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.

RECEIVED

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED** DEC 14 2010

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-614S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504580000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 0967 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/30/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="RIG RELEASE"/>

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

FINISHED DRILLING FROM 2127' TO 8570' ON JANUARY 29, 2011. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 405 SX CLASS G PREM LITE @ 11.6 PPG, 2.62 YD. TAILED CEMENT W/ 945 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.41 YD. BUMPED PLUG, FLOATS HEAD 1 1/2 BBLS BACK TO TRUCK; FINAL LIFT 2240 PSI, 30 BBLS SPACER TO PIT RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #146 ON JANUARY 30, 2011 @ 12:00 HRS.

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

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/31/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6I4S	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504580000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 0967 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/11/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/11/2011 AT 7:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/13/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **UTU38419**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **UTU60768**

8. Lease Name and Well No. **BONANZA 1023-614S**

9. API Well No. **43-047-50458**

10. Field and Pool, or Exploratory **NATURAL BUTTES**

11. Sec., T., R., M., or Block and Survey or Area **Sec 6 T10S R23E Mer SLB**

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

17. Elevations (DF, KB, RT, GL)* **5184 GL**

14. Date Spudded **09/19/2010** 15. Date T.D. Reached **01/29/2011** 16. Date Completed D & A Ready to Prod. **04/11/2011**

18. Total Depth: MD **8570** TVD **8434** 19. Plug Back T.D.: MD **8391** TVD **8255** 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **ACBL-CHI TRIPLE COMBO-RMTE** 22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit analysis)
Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
12.250	9.625 J-55	40.0		2116		875		0	
7.875	4.500 I-80	11.6		8434		1350		1450	

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	7568							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5452	6094	5452 TO 6094	0.360	45	OPEN
B) MESAVERDE	6768	8070	6768 TO 8070	0.360	96	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
5691 TO 8070	PUMP 5,249 BBLs SLICK H2O & 201,725 LBS SAND

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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
04/11/2011	04/14/2011	24	→	0.0	1843.0	274.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1238	1836.0	→	0	1843	274		PGW	

28a. Production - Interval B

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1165				
BIRD'S NEST	1423				
MAHOGANY	1776				
WASATCH	4260	6342			
MESAVERDE	6342	8570			

32. Additional remarks (include plugging procedure):

Attached is the chronological well history & final survey. Completion chrono details individual frac stages.

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 #107951 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

Name (please print) GINA T. BECKER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 05/10/2011

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 1023-6I4S [YELLOW]	Spud Conductor: 9/19/2010	Spud Date: 12/11/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-6I PAD	Rig Name No: ENSIGN 146/146, PROPETRO/
Event: DRILLING	Start Date: 9/16/2010	End Date: 1/30/2011
Active Datum: RKB @5,195.00ft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/11/2010	9:00 - 13:00	4.00	MIRU	01	B	P		DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP AND MUD PUMP.
	13:00 - 13:30	0.50	PRPSPD	01	B	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8065 . 7/8 LOBE .17 RPM. M/U QD507Z SN 7017970 IST RUN, W/ 7-18'S. INSTALL RUBBER.
	13:30 - 15:00	1.50	DRLSUR	02	A	P		SPUD SURFACE 12-11-2010 @ 13:30 HRS. DRILL 12 1/4" SURFACE HOLE F/40'-210' (170' @ 113'/HR) PSI ON/ OFF 790/650, UP/ DOWN/ ROT 34/26/30. 550 GPM, 45 RPM ON TOP DRIVE, 15-20K WOB
	15:00 - 17:00	2.00	DRLSUR	06	A	P		TOOH, PU AND ORIENT DIR TOOLS, TIH T/210'
	17:00 - 0:00	7.00	DRLSUR	02	C	P		DRILL/ SLIDE 12 1/4" SURFACE HOLE F/210'-960' (750' 107'/HR) PSI ON/ OFF 1140/560, UP/ DOWN/ ROT 59/50/55,134 SPM 18-22K WOB,550 GPM, 45 RPM ON TOP DRIVE.MM 85 RPM,CIRC. RESERVE PIT
12/12/2010	0:00 - 17:00	17.00	DRLSUR	02	C	P		DRILL/ SLIDE 12 1/4" SURFACE HOLE F/960'-2127' (1167' 68'/HR) PSI ON/ OFF 1410/1220, UP/ DOWN/ ROT 79/60/69,134 SPM 18-22K WOB,550 GPM, 45 RPM ON TOP DRIVE.MM 88 RPM,CIRC. RESERVE PIT
	17:00 - 19:00	2.00	DRLSUR	05	A	P		CIRC AND COND HOLE CLEAN
	19:00 - 22:30	3.50	DRLSUR	06	A	P		TOOH, LDDS AND DIR BHA
	22:30 - 23:30	1.00	CSG	12	A	P		RU TO RUN CSG, MOVE PIPE RACKS AND CATWALK, MOVE CSG OVER TO WORK AREA
12/13/2010	23:30 - 0:00	0.50	CSG	12	C	P		HELD SAFETY MEETING, RUN CSG. RAN 4JTS OF 9-5/8", 40#, J-55, 8 RND CSG W/ LTC THREADS.
	0:00 - 2:30	2.50	MAINT	08	A	X		WORK ON HYDRAULICS SYSTEM, REPAIR AND REPLACE HYDRAULIC HOSE.
	2:30 - 8:30	6.00	CSG	12	C	P		FINISH RUNNING CSG. RAN 49JTS OF 9-5/8", 40#, J-55, 8 RND CSG W/ LTC THREADS. LANDED FLOAT SHOE @ 2105.66' KB. RAN BAFFLE PLATE IN TOP OF SHOE JT LANDED 2060.86' KB. HAD TO WASH DOWN LAST TWO JTS, FILL CSG @ 500', 1500', AND 2100'.
	8:30 - 9:00	0.50	RDMO	01	E	P		RIG DOWN RIG, MOVE OFF WELL, RELEASE RIG 12-13-2010 @ 09:00

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-614S [YELLOW] Spud Conductor: 9/19/2010 Spud Date: 12/11/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-61 PAD Rig Name No: ENSIGN 146/146, PROPETRO/
 Event: DRILLING Start Date: 9/16/2010 End Date: 1/30/2011
 Active Datum: RKB @5,195.00ft (above Mean Sea Level) UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 9:00	0.00	RDMO					<p>HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 50 BBLs OF 8.3# H2O AHEAD. NO CIRC. PUMP 20 BBLs OF 8.4# GEL WATER AHEAD. PARTIAL CIRC. PUMP 250 SX (51.2 BBLs) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE). PARTIAL CIRC. DROP PLUG ON FLY AND DISPLACE W/156 BBLs OF 8.3# H2O. PARTIAL RETURNS, BUMP PLUG AND HOLD 600 PSI FOR 5 MIN. FLOAT HELD.</p> <p>TOP OUT, PUMP 200 SX (40.9 BBLs) OF 15.8# 1.15 YIELD TAIL(4 % CALC, 1/4# /SK OF FLOCELE). WAITED 2 HRS PUMPED ANOTHER 150 SX (30.7 BBLs), WAITED ANOTHER 2 HRS PUMPED 150 SX (30.7 BBLs) DOWN BACKSIDE, WAITED 2 HRS PUMPED 125 SX (25.6 BBLs) DOWN BACKSIDE, FINALLY GOT CMT TO SURFACE. RIG DOWN CEMENTERS AND RELEASE CEMENTERS 16:30 HRS.</p> <p>CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28</p> <p>SPUD DATE/TIME: 12-11-2010 @ 13:30</p> <p>SURFACE HOLE: Surface From depth: 40' Surface To depth: 2,127 Total SURFACE hours: 25.5 Surface Casing size: 9.625" # of casing joints ran: 49 Casing set MD: 2,105.66' # sx of cement: 250 SKS, (51.2BBLs)TAIL, 625 SKS (127.9 BBLs)TOP OUT Cement blend (ppg): 15.8# ON TAIL CMTS Cement yield (ft3/sk): # of bbls to surface:0 BBL Describe cement issues: NO CIRC DURING CMT JOB Describe hole issues: LOST TOTAL CIRC @ 1470'</p>
1/26/2011	2:00 - 4:00	2.00	MIRU	01	C	P		SKID RIG OVER WELL
	4:00 - 5:00	1.00	MIRU	07	A	P		SERVICE TOPDRIVE, X/O GRABBER DIES & SAVOR SUB
	5:00 - 6:00	1.00	MIRU	14	A	P		N/U BOP
	6:00 - 12:00	6.00	DRLPRO	15	A	P		TEST BOP RAMS, CHOKE, HCR, KILLLINE TO 250 LOW 5000 HIGH, ANN 250 LOW 2500 HIGH, CASING 1500 PSI 30 MIN
	12:00 - 16:00	4.00	DRLPRO	06	A	P		P/U BIT, MOTOR & SCRIBE, INSTALL MWD TOOL, TEST OK, R.I.H, TAG CMT. @ 2040 FT.
	16:00 - 16:30	0.50	DRLPRO	07	B	P		LEVEL DERRICK, INSTALL ROTATING HEAD
	16:30 - 17:00	0.50	DRLPRO	02	F	P		DRILL CMT, FLOAT & SHOE
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILL OUT F/ 2137 TO 3205 - 1068 FT. 153 FT. PER/HR. MW 8.4, VIS 27, WOB 21, RPM 45, MMRPM 149, GPM 514, TQ 9/3, PSI ON/OFF BTM. 1850/1475, SLIDE 25% ROT 75%
1/27/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL & SLIDE F/ 3205 TO 4677 - 1472 FT. 134 FT. PER/HR. MW 8.4, VIS 28, WOB 21, RPM 45, MMRPM 149, GPM 514, TQ 12/8, PSI ON/OFF BTM. 2050/1600 - ROT 80% SLIDE 20%

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I4S [YELLOW] Spud Conductor: 9/19/2010 Spud Date: 12/11/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-6I PAD Rig Name No: ENSIGN 146/146, PROPETRO/
 Event: DRILLING Start Date: 9/16/2010 End Date: 1/30/2011
 Active Datum: RKB @5,195.00ft (above Mean Sea Level) UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DRILL & SLIDE F/ 4677 TO 6402 - 1725 FT. 138 FT. PER/HR. MW 10, VIS 34, WOB 21, RPM 40, MMRPM 149, GPM 514, TQ. 14/9, PSI ON/OFF BTM. 2300/1900 - ROT. 90% SLIDE 10%
1/28/2011	0:00 - 12:30	12.50	DRLPRO	02	D	P		DRILL & SLIDE F/ 6402 TO 7305 - 903 FT. - 72 FT. PER/HR. MW 10.4, VIS 40, WOB 20, RPM 40, MMRPM 149, GPM 514, TQ. 15/14, PSI ON/OFF BTM. 2650/2150 - ROT 91% SLIDE 9%
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:00 - 0:00	11.00	DRLPRO	02	D	P		DRILL & SLIDE F/ 7305 TO 8040 - 735 FT. 67 FT. PER/HR. MW 11.4, VIS 40, WOB 20, RPM 40, MMRPM 149, GPM 514, TQ. 15/14, PSI ON/OFF BTM. 2700/2400 - ROT 92% SLIDE 8%
1/29/2011	0:00 - 8:30	8.50	DRLPRO	02	D	P		DRILL F/ 8040 TO 8570 - 530 FT. 62 FT. PER/HR. MW 11.5, VIS 42, WOB 22, RPM 40, MMRPM. 148, GPM 509, TQ 16/14, PSI ON/OFF BTM. 2800/2500 FLOW CHECK, NO FLOW - CIRC. 2 HRS.
	8:30 - 10:30	2.00	DRLPRO	05	C	P		PUMPED 8 STDS. T.O.H TO RUN 4 1/2 CASING
	10:30 - 18:30	8.00	DRLPRO	06	D	P		HELD SAFETY MEETING W/ CASING CREW, R/U MADE SHOE JT. UP & NOTICED THE WEAR BUSHING WAS NOT PULLED
	18:30 - 20:00	1.50	DRLPRO	12	C	P		TRIED SEVERAL TIMES TO RETRIEVE WEAR BUSHING, UNSCREWED JT. FROM PULLER. IRON ROUGHNECK FAILED TO TORQUE PROPERLY
	20:00 - 21:00	1.00	DRLPRO	08	A	P		CONTINUE RUNNING 4 1/2 CASING
1/30/2011	21:00 - 0:00	3.00	DRLPRO	12	B	P		CONTINUE RUNNING CASING - RAN 204 JTS. 4 1/2 11.6#, I-80, BTC CASING, SHOE SET @ 8560 FT. FLOAT COLLAR @ 8517 FT.
	0:00 - 5:30	5.50	DRLPRO	12	C	P		CIRC. THROUGH CASING - 25 FT. FLARE @ BTMS. UP
	5:30 - 6:30	1.00	DRLPRO	05	D	P		HELD SAFETY MEETING W/ BJ SERVICES, R/U & PUMPED 40 BBL. SPACER, LEAD W/ 405 SKS. 188 BBLs, 11.6# 2.62 YIELD, TAIL W/ 945 SKS. 220 BBLs. 14.3# 1.31 YIELD, BUMPED PLUG FLOATS HELD, 1 1/2 BBLs BACK TO TRUCK, FINAL LIFT PSI 2240, 30 BBLs. SPACER TO PIT
	6:30 - 9:30	3.00	DRLPRO	12	E	P		SET SLIPS @ 90K W/ WEATHERFORD REP, N/D ROUGH CUT CASING,
	9:30 - 12:00	2.50	DRLPRO	14	A	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-614S [YELLOW]	Spud Conductor: 9/19/2010	Spud Date: 12/11/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-61 PAD	Rig Name No: ENSIGN 146/146, PROPETRO/
Event: DRILLING	Start Date: 9/16/2010	End Date: 1/30/2011
Active Datum: RKB @5,195.00ft (above Mean Sea Level)	UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 12:00	0.00	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 12-11-2010 @ 13:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,127 Total SURFACE hours: 25.50 Surface Casing size: 9 5/8 # of casing joints ran: 49 Casing set MD: 2,105.7 # sx of cement: 250SKS,625 SKS Cement blend (ppg): 15.8 Cement yield (ft3/sk): # of bbls to surface: Describe cement issues: NO CIRC DURING CMT JOB Describe hole issues: LOST TOTAL CIRC. @1470</p> <p>PRODUCTION: Rig Move/Skid start date/time: 1/26/2011 2:00 Rig Move/Skid finish date/time: 1/26/2011 5:00 Total MOVE hours: 3.0 Prod Rig Spud date/time: 1/26/2011 17:00 Rig Release date/time: 1/30/2011 12:00 Total SPUD to RR hours:91.0 Planned depth MD 8,544 Planned depth TVD 8,403 Actual MD: 8,570 Actual TVD: 8,435 Open Wells \$: \$570,981 AFE \$: \$633,193 Open wells \$/ft: \$66.63</p> <p>PRODUCTION HOLE: Prod. From depth: 2,137 Prod. To depth: 8,570 Total PROD hours: 62.5 Log Depth: NO LOGS REQUIRED Float Collar Top Depth: 8390.67 Production Casing size: 4 1/2 # of casing joints ran: 201 Casing set MD: 8434.27 Stage 1 # sx of cement: L 405 T 945 Cement density (ppg): L 11.6 T 14.3 Cement yield (ft3/sk): L 2.62 T 1.31 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : L 132 T 3090 Describe cement issues: Describe hole issues:</p> <p>DIRECTIONAL INFO: KOP: 150 Max angle: 19.84 Departure: 1019.00</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I4S [YELLOW]		Spud Conductor: 9/19/2010		Spud Date: 12/11/2010				
Project: UTAH-UINTAH		Site: BONANZA 1023-6I PAD		Rig Name No: ENSIGN 146/146, PROPETRO/				
Event: DRILLING		Start Date: 9/16/2010		End Date: 1/30/2011				
Active Datum: RKB @5,195.00ft (above Mean Sea Level)		UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
Max dogleg MD:								2.76

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-614S [YELLOW] Spud Conductor: 9/19/2010 Spud Date: 12/11/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-61 PAD Rig Name No: GWS 1/1
 Event: COMPLETION Start Date: 4/1/2011 End Date: 4/11/2011
 Active Datum: RKB @5,195.00ft (above Mean Sea Level) UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/1/2011	7:00 - 7:15	0.25	COMP	48		P		HSM. REVIEW PRESSURE TEST PROCEDURE
	7:15 - 16:00	8.75	COMP	47	B	P		MIRU B&C TESTER, PRESSURE TEST FRAC VALVES TO 500# FOR 15 MIN. 3,500# FOR 15 MIN, 7,000# FOR 30 MIN W/ NO LESS THAN 100# BLEED OFF. W/ SURFACE CSG LOCKED OPEN, NO COMUNICATION MIRU CUTTERS WIRE LINE 1ST SHOOT MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE 8,066'-8,070' 3 SPF, 120* PH, 12 HOLES. 7,978'-7,979' 3 SPF, 120* PH, 3 HOLES. 7,949'-7,951' 3 SPF, 120* PH, 6 HOLES. 7,908'-7,909' 3 SPF, 120* PH, 3 HOLES. [24 HOLES]
4/4/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, PRE FRAC INTRUCTIONS
	7:15 - 18:00	10.75	COMP	36	E	P		FRAC STG #1 MESAVERDE 7,908'-8,070' [24 HOLES] FRAC STG #1] WHP=1,655#, BRK DN PERFS=2,821#, @=4.6 BPM, INJ RT=44.6, INJ PSI=4,617#, ISIP=2,694#, FG=.76, PUMP'D 1,550 BBLs SLK WTR W/ 52,934# 30/50 MESH W/ 5,000# RESIN COAT IN TAIL W/ 57,934# TOTAL PROP PUMP'D, ISIP=2,765#, FG=.78, AR=49.5, AP=4,500#, MR=51.2, MP=6,689#, NPI=71#, 24/24 CALC PERFS OPEN. 100% PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,855', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,824'-7,825' 3 SPF, 120* PH, 3 HOLES. 7,787'-7,789' 3 SPF, 120* PH, 6 HOLES. 7,749'-7,750' 3 SPF, 120* PH, 3 HOLES. 7,726'-7,728' 3 SPF, 120* PH, 6 HOLES. 7,629'-7,630' 3 SPF, 120* PH, 3 HOLES. 7,599'-7,600' 3 SPF, 120* PH, 3 HOLES. [24 HOLES] FRAC STG #2] WHP=2,224#, BRK DN PERFS=6,008#, @=5.4 BPM, INJ RT=51.3, INJ PSI=4,966#, ISIP=2,919#, FG=.81, PUMP'D 1,662 BBLs SLK WTR W/ 63,001# 30/50 MESH W/ 5,000# RESIN COAT IN TAIL W/ 68,001# TOTAL PROP PUMP'D, ISIP=2,219#, FG=.72, AR=51.5, AP=4,550#, MR=52.3, MP=6,909#, NPI=-700#, 24/24 CALC PERFS OPEN. 100% PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,536', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,504'-7,506' 3 SPF, 120* PH, 6 HOLES. 7,421'-7,422' 3 SPF, 120* PH, 3 HOLES. 7,402'-7,403' 3 SPF, 120* PH, 3 HOLES. 7,364'-7,365' 3 SPF, 120* PH, 3 HOLES. 7,347'-7,348' 3 SPF, 120* PH, 3 HOLES. 7,300'-7,302' 3 SPF, 120* PH, 6 HOLES. [24 HOLES] SWIFN.
4/5/2011	7:00 - 7:15	0.25	COMP	48		P		HSM,

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-614S [YELLOW]		Spud Conductor: 9/19/2010	Spud Date: 12/11/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-61 PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/1/2011	End Date: 4/11/2011
Active Datum: RKB @5,195.00ft (above Mean Sea Level)		UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	36	E	P		<p>FRAC STG #3 MESAVERDE 7,300'-7,506' [24 HOLES]</p> <p>FRAC STG #3] WHP=1,501#, BRK DN PERFS=2,961#, @=4.6 BPM, INJ RT=49.5, INJ PSI=4,563#, ISIP=1,756#, FG=.67, PUMP'D 973 BBLs SLK WTR W/ 32,155# 30/50 MESH W/ 5,000# RESIN COAT IN TAIL W/ 37,155# TOTAL PROP PUMP'D, ISIP=1,982#, FG=.70, AR=47.5, AP=5,000#, MR=51.8, MP=6,503#, NPI=226#, 24/24 CALC PERFS OPEN. 100%</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,127', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,094'-7,097' 4 SPF, 90* PH, 12 HOLES. 6,768'-6,771' 4 SPF, 90* PH, 12 HOLES. [24 HOLES]</p> <p>FRAC STG #4] WHP=795#, BRK DN PERFS=3,744#, @=4.6 BPM, INJ RT=31.7, INJ PSI=6,046#, ISIP=2,688#, FG=.82, PUMP'D 412 BBLs SLK WTR W/ 6,081# 30/50 MESH W/ 5,000# RESIN COAT IN TAIL W/ 11,081# TOTAL PROP PUMP'D, ISIP=2,421#, FG=.78, AR=36, AP=6,350#, MR=49.8, MP=6,687#, NPI=-267#, 12/24 CALC PERFS OPEN. 50%</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,124', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 6,092'-6,094' 3 SPF, 120* PH, 6 HOLES. 5,770'-5,774' 3 SPF, 120* PH, 12 HOLES. 5,691'-5,692' 3 SPF, 120* PH, 3 HOLES. [21 HOLES]</p> <p>FRAC STG #5] WHP=398#, BRK DN PERFS=1,982#, @=4.5 BPM, INJ RT=49.5, INJ PSI=4,450#, ISIP=1,222#, FG=.59, PUMP'D 652 BBLs SLK WTR W/ 22,554# 30/50 MESH W/ 5,000# RESIN COAT IN TAIL W/ 27,554# TOTAL PROP PUMP'D, ISIP=1,495#, FG=.69, AR=49.8, AP=3,575#, MR=50.6, MP=4,705#, NPI=243#, 21/21 CALC PERFS OPEN. 100%</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,492', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 5,452'-5,458' 4 SPF, 90* PH, 24 HOLES. [24 HOLES]</p> <p>FRAC STG #6] WHP=439#, COULD NOT BREAK DOWN, TRIED 6 TIMES STILL WOULD NOT BREAK P/U DUMMY GUN RIH TAGGED @=5,436', DID NOT FRAC-DID NOT SET TOP KILL.</p> <p>5,249 TOTAL BBLs 201,725# TOTAL SAND 544 GALS SCALE INHIB 111 GALS BIOCIDES HSM, SLIPS, TRIPS & FALLS, ND WH & NU BOPS KEEP HOLE COVERED.</p>
4/11/2011	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I4S [YELLOW]		Spud Conductor: 9/19/2010		Spud Date: 12/11/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6I PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 4/1/2011		End Date: 4/11/2011	
Active Datum: RKB @5,195.00ft (above Mean Sea Level)		UWI: NE/SE/0/10/S/23/E/6/0/0/26/PM/S/2078/E/0/967/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 13:00	5.75	COMP	31	I	P		RD OFF BON 1023-6P1S, MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER, TALLY & PU TBG TO KILL PLUG @ 5,492', RU POWER SWIVEL, LAY HARD LINES FROM PUMP, FILL TBG & BREAK CIRC, PRESS TEST BOP TO 3,000 PSI FOR 15 MIN HELD OK.
	13:00 - 19:00	6.00	COMP	44	C	P		START DRLG PLUGS, ALL SURFACE CSG VAVLES OPEN TO ATMOSPHERE W/ LOCKS ON THEM. C/O 45' SAND, TAG 1ST PLUG @ 5,492' DRL PLUG IN 8 MIN. 300 PSI INCREASE RIH, CSG PRESS 0 PSI. C/O 45' SAND, TAG 2ND PLUG @ 6,124' DRL PLUG IN 6 MIN. 300 PSI INCREASE RIH, CSG PRESS 25 PSI. C/O 30' SAND, TAG 3RD PLUG @ 7,127' DRL PLUG IN 7 MIN. 550 PSI INCREASE RIH, CSG PRESS 500 PSI. C/O 30' SAND, TAG 4TH PLUG @ 7,536' DRL PLUG IN 7 MIN. 250 PSI INCREASE RIH, CSG PRESS 500 PSI. FLOW LINE PLUGGED W/ PLUG PARTS. C/O 35' SAND, TAG 5TH PLUG @ 7,855' DRL PLUG IN 8 MIN. 200 PSI INCREASE RIH, CSG PRESS 600 PSI. FLOW LINE PLUGGED W/ PLUG PARTS. PBTD 8,389', BTM PERF @ 8,070', SET POWER SWIVEL BACK, RIH TO 8,231' NO TAG, 161' PAST BTM PERF W/ 260 JTS 2 3/8" J-55 TBG, LD 21 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 239 JTS 2 3/8" J-55, EOT 7,567.67'. RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,200 PSI, LET BIT FALL FOR 20 MIN. TURN OVER TO FLOW BACK CREW. SDFN. KB= 15' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 286 JTS 239 JTS 2 3/8" J-55 = 7,549.64' TBG USED 239 JTS POBS= 2.20' TBG RETURNED 47 JTS EOT @ 7,567.67' SN @ 7,565.47' TWTR= 5,249 BBLS TWR= 700 BBLS TWLTR= 4,549 BBLS CALLED CDC TALKED TO JUNIOR WELL TURNED TO SALES @ 1900 HR ON 4/11/11 - 1450 MCFD, 2040 BWPD, FRP 1800#, CP 1950#, CK 20/64" 7 AM FLBK REPORT: CP 2200#, TP 1700#, 20/64" CK, 39 BWPH, LIGHT SAND, 1.8 GAS TTL BBLS RECOVERED: 1191 BBLS LEFT TO RECOVER: 4058
	19:00 - 19:00	0.00	PROD	50				
4/12/2011	7:00 -			33	A			

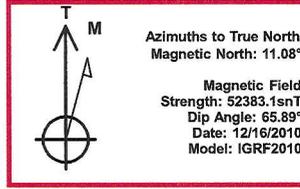
US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-614S [YELLOW]		Spud Conductor: 9/19/2010	Spud Date: 12/11/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-6I PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/1/2011	End Date: 4/11/2011
Active Datum: RKB @5,195.00ft (above Mean Sea Level)		UWI: NE/SE/O/10/S/23/E/6/O/0/26/PM/S/2078/E/0/967/O/O	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/13/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2100#, TP 1450#, 20/64" CK, 18 BWPH, LIGHT SAND, 1.9 GAS TTL BBLS RECOVERED: 1765 BBLS LEFT TO RECOVER: 3484
4/14/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 1800#, TP 1225#, 20/64" CK, 13 BWPH, LIGHT SAND, 1.8 GAS TTL BBLS RECOVERED: 2137 BBLS LEFT TO RECOVER: 3112
4/15/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 1625#, TP 1125#, 20/64" CK, 9 BWPH, LIGHT SAND, 1.8 GAS TTL BBLS RECOVERED: 2411 BBLS LEFT TO RECOVER: 2838
4/16/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 1475#, TP 1025#, 20/64" CK, 10 BWPH, LIGHT SAND, 1.7GAS TTL BBLS RECOVERED: 2630 BBLS LEFT TO RECOVER: 2619

Site: JINTAH BONANZA 1023-6I PAD
 Well: Bonanza 1023-6I4S
 Wellbore: Bonanza 1023-6I4S
 Section:
 SHL:
 Design: Bonanza 1023-6I4S (wp01)
 Latitude: 39.976428
 Longitude: -109.362892
 GL: 5181.00
 KB: (14' RKB + 5181' GL) @ 5195.00ft (ENSIGN 146)

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4144.00	4285.06	Top Wasatch
6271.00	6412.19	Top Mesaverde



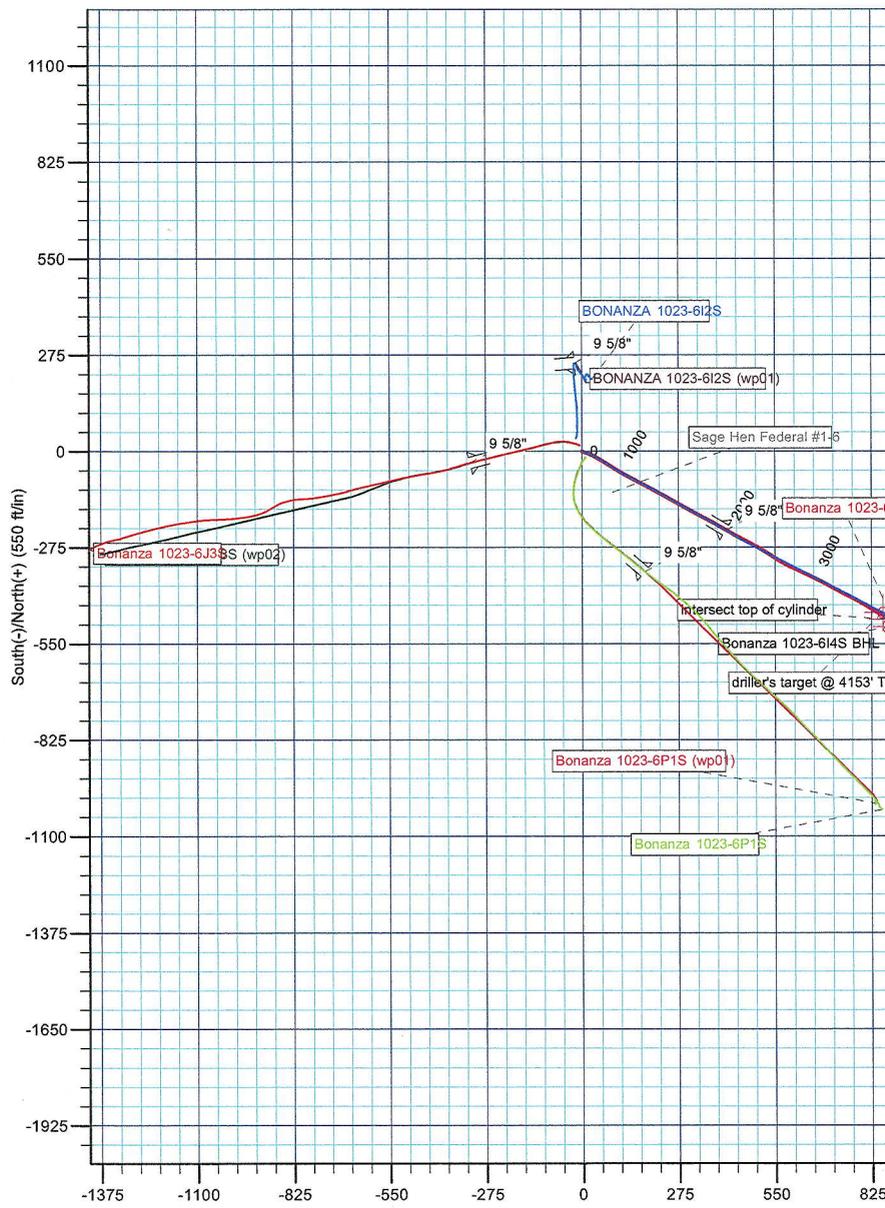
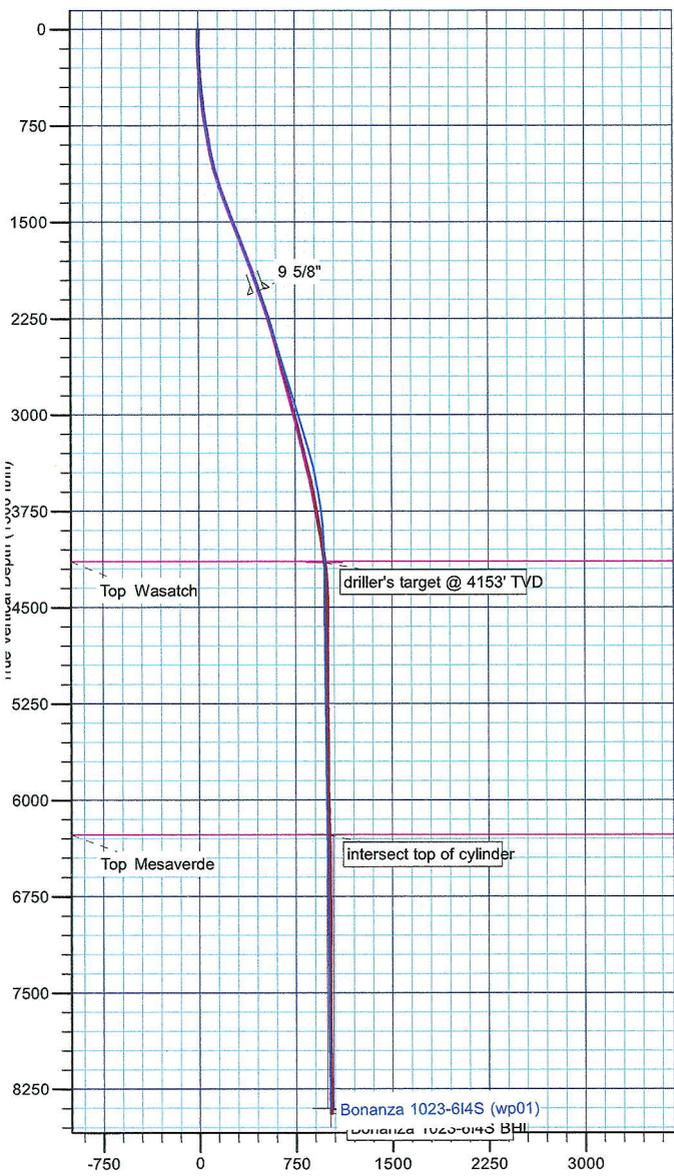
WELL DETAILS: Bonanza 1023-6I4S						
+N/-S	+E/-W	Northing	Ground Level: Easting	5181.00 Latitude	Longitude	Slot
0.00	0.00	14521671.49	2099070.99	39.976428	-109.362892	

CASING DETAILS			
TVD	MD	Name	Size
2034.32	2105.66	9 5/8"	9-5/8

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
driller's target @ 4153' TVD	4153.00	-462.06	857.06	14521225.24	2099936.39	39.975159	-109.359834	Circle (Radius: 15.00)	
intersect top of cylinder	6271.00	-481.38	869.24	14521206.14	2099948.92	39.975106	-109.359790	Point	
Bonanza 1023-6I4S BHL	8403.00	-501.88	882.16	14521185.89	2099962.21	39.975050	-109.359744	Circle (Radius: 25.00)	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
2070.00	19.82	120.86	2000.77	-219.91	399.24	0.00	0.00	455.76
2105.66	19.82	120.86	2034.32	-226.11	409.63	0.00	0.00	467.85
2205.66	19.82	120.86	2128.39	-243.51	438.74	0.00	0.00	501.76
2384.43	16.90	117.36	2298.05	-271.00	487.85	1.75	-161.06	558.04
3328.63	16.90	117.36	3201.49	-397.11	731.55	0.00	0.00	832.22
4294.06	0.00	117.29	4153.00	-462.06	857.06	1.75	180.00	973.43
4511.12	0.65	147.78	4370.05	-463.10	857.72	0.30	147.78	974.51
8544.33	0.65	147.78	8403.00	-501.88	882.16	0.00	0.00	1014.93





Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-614S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-61 PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-614S	North Reference:	True
Wellbore:	Bonanza 1023-614S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-614S	Database:	edm5000p

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

Site	UINTAH_BONANZA 1023-61 PAD				
Site Position:		Northing:	14,521,707.58 ft	Latitude:	39.976528
From:	Lat/Long	Easting:	2,099,052.39 ft	Longitude:	-109.362956
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	1.05 °

Well	Bonanza 1023-614S					
Well Position	+N/-S	0.00 ft	Northing:	14,521,671.49 ft	Latitude:	39.976428
	+E/-W	0.00 ft	Easting:	2,099,070.99 ft	Longitude:	-109.362892
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,181.00 ft

Wellbore	Bonanza 1023-614S				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/16/2010	11.08	65.89	52,383

Design	Bonanza 1023-614S				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	118.86	

Survey Program	Date 2/17/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
135.00	2,070.00	Survey #1 (Bonanza 1023-614S)	MWD	MWD - Standard	
2,126.00	8,569.00	Survey #2 (Bonanza 1023-614S)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.00	0.29	178.42	135.00	-0.34	0.01	0.17	0.21	0.21	0.00	
220.00	1.58	110.28	219.99	-0.96	1.11	1.44	1.76	1.52	-80.16	
303.00	4.20	106.76	302.87	-2.24	5.10	5.54	3.16	3.16	-4.24	
390.00	5.16	109.57	389.58	-4.47	11.84	12.52	1.13	1.10	3.23	
480.00	5.95	114.42	479.16	-7.75	19.90	21.17	1.02	0.88	5.39	
570.00	7.12	117.41	568.57	-12.25	29.10	31.39	1.35	1.30	3.32	
660.00	7.77	116.64	657.82	-17.54	39.49	43.05	0.73	0.72	-0.86	
750.00	9.05	120.44	746.85	-23.86	51.03	56.20	1.55	1.42	4.22	
840.00	10.25	123.00	835.57	-31.80	63.85	71.27	1.42	1.33	2.84	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-614S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-61 PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-614S	North Reference:	True
Wellbore:	Bonanza 1023-614S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-614S	Database:	edm5000p

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)
930.00	11.33	122.92	923.98	-40.97	77.98	88.07	1.20	1.20	-0.09
1,020.00	12.87	121.91	1,011.98	-51.07	93.91	106.90	1.73	1.71	-1.12
1,110.00	14.77	119.48	1,099.37	-62.02	112.41	128.38	2.21	2.11	-2.70
1,200.00	17.49	117.68	1,185.82	-73.95	134.38	153.38	3.07	3.02	-2.00
1,290.00	19.76	118.27	1,271.10	-87.44	159.76	182.12	2.53	2.52	0.66
1,380.00	21.36	118.46	1,355.36	-102.46	187.57	213.72	1.78	1.78	0.21
1,470.00	21.27	118.45	1,439.21	-118.04	216.33	246.44	0.10	-0.10	-0.01
1,560.00	20.97	119.37	1,523.16	-133.72	244.72	278.87	0.50	-0.33	1.02
1,650.00	21.85	119.08	1,606.95	-149.76	273.39	311.72	0.98	0.98	-0.32
1,740.00	21.07	119.13	1,690.71	-165.77	302.16	344.64	0.87	-0.87	0.06
1,830.00	20.28	118.68	1,774.91	-181.13	329.97	376.42	0.90	-0.88	-0.50
1,920.00	20.60	118.31	1,859.25	-196.13	357.60	407.85	0.38	0.36	-0.41
2,010.00	19.75	120.28	1,943.73	-211.30	384.67	438.88	1.21	-0.94	2.19
2,070.00	19.84	120.97	2,000.18	-221.66	402.15	459.19	0.42	0.15	1.15
tie on point									
2,126.00	19.80	118.66	2,052.86	-231.09	418.63	478.18	1.40	-0.07	-4.13
2,172.00	18.96	118.13	2,096.26	-238.35	432.05	493.44	1.87	-1.83	-1.15
2,262.00	17.52	117.63	2,181.73	-251.53	456.95	521.60	1.61	-1.60	-0.56
2,353.00	15.56	119.10	2,268.96	-263.82	479.75	547.51	2.20	-2.15	1.62
2,444.00	15.38	117.35	2,356.67	-275.30	501.13	571.77	0.55	-0.20	-1.92
2,535.00	14.88	123.35	2,444.52	-287.27	521.61	595.49	1.81	-0.55	6.59
2,625.00	14.25	123.10	2,531.62	-299.67	540.55	618.05	0.70	-0.70	-0.28
2,716.00	14.19	121.22	2,619.84	-311.57	559.47	640.37	0.51	-0.07	-2.07
2,806.00	16.63	119.48	2,706.60	-323.63	580.12	664.27	2.76	2.71	-1.93
2,897.00	15.56	116.72	2,794.03	-335.52	602.35	689.49	1.45	-1.18	-3.03
2,988.00	15.44	113.23	2,881.72	-345.79	624.39	713.74	1.03	-0.13	-3.84
3,079.00	14.00	114.60	2,969.73	-355.15	645.53	736.78	1.63	-1.58	1.51
3,170.00	12.88	114.60	3,058.24	-363.95	664.76	757.87	1.23	-1.23	0.00
3,260.00	14.00	121.60	3,145.78	-373.83	683.16	778.75	2.19	1.24	7.78
3,351.00	13.75	116.98	3,234.13	-384.51	702.17	800.55	1.25	-0.27	-5.08
3,442.00	14.13	117.73	3,322.45	-394.58	721.64	822.47	0.46	0.42	0.82
3,532.00	13.31	117.98	3,409.88	-404.56	740.51	843.81	0.91	-0.91	0.28
3,623.00	12.00	115.35	3,498.66	-413.52	758.31	863.73	1.57	-1.44	-2.89
3,713.00	12.31	118.72	3,586.65	-422.14	775.18	882.66	0.86	0.34	3.74
3,804.00	11.00	118.23	3,675.77	-430.91	791.34	901.04	1.44	-1.44	-0.54
3,895.00	9.13	120.60	3,765.37	-438.69	805.20	916.94	2.10	-2.05	2.60
3,985.00	10.19	121.23	3,854.09	-446.45	818.16	932.03	1.18	1.18	0.70
4,076.00	9.75	124.35	3,943.71	-454.97	831.40	947.75	0.77	-0.48	3.43
4,167.00	9.13	117.60	4,033.48	-462.67	844.16	962.63	1.39	-0.68	-7.42
4,258.00	7.06	117.23	4,123.57	-468.57	855.53	975.44	2.28	-2.27	-0.41
4,348.00	5.25	113.73	4,213.05	-472.76	864.22	985.07	2.05	-2.01	-3.89
4,439.00	3.63	127.23	4,303.78	-476.18	870.33	992.07	2.11	-1.78	14.84
4,530.00	1.44	133.60	4,394.68	-478.71	873.45	996.03	2.42	-2.41	7.00

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-614S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-61 PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-614S	North Reference:	True
Wellbore:	Bonanza 1023-614S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-614S	Database:	edm5000p

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)
4,620.00	0.56	297.23	4,484.68	-479.29	873.88	996.68	2.20	-0.98	181.81
4,711.00	0.44	275.23	4,575.67	-479.05	873.13	995.92	0.25	-0.13	-24.18
4,801.00	0.50	256.85	4,665.67	-479.11	872.41	995.31	0.18	0.07	-20.42
4,892.00	0.50	251.73	4,756.67	-479.32	871.64	994.74	0.05	0.00	-5.63
4,983.00	0.56	230.10	4,847.66	-479.73	870.93	994.31	0.23	0.07	-23.77
5,074.00	0.94	205.60	4,938.65	-480.69	870.26	994.19	0.54	0.42	-26.92
5,165.00	0.75	209.85	5,029.64	-481.88	869.64	994.23	0.22	-0.21	4.67
5,255.00	0.81	198.85	5,119.64	-482.99	869.14	994.33	0.18	0.07	-12.22
5,345.00	0.69	172.48	5,209.63	-484.13	869.01	994.76	0.40	-0.13	-29.30
5,436.00	0.75	148.85	5,300.62	-485.19	869.39	995.60	0.33	0.07	-25.97
5,527.00	0.94	143.35	5,391.61	-486.30	870.14	996.79	0.23	0.21	-6.04
5,617.00	1.13	144.48	5,481.60	-487.61	871.10	998.27	0.21	0.21	1.26
5,708.00	0.13	176.98	5,572.59	-488.44	871.63	999.13	1.12	-1.10	35.71
5,798.00	0.25	178.10	5,662.59	-488.74	871.64	999.28	0.13	0.13	1.24
5,889.00	0.63	166.22	5,753.59	-489.43	871.76	999.72	0.43	0.42	-13.05
5,980.00	1.13	147.85	5,844.58	-490.67	872.36	1,000.85	0.62	0.55	-20.19
6,070.00	1.31	145.10	5,934.56	-492.27	873.42	1,002.55	0.21	0.20	-3.06
6,161.00	1.50	146.23	6,025.53	-494.11	874.68	1,004.54	0.21	0.21	1.24
6,251.00	0.56	174.47	6,115.51	-495.53	875.38	1,005.83	1.16	-1.04	31.38
6,342.00	1.19	154.35	6,206.50	-496.82	875.83	1,006.85	0.76	0.69	-22.11
6,433.00	0.75	66.85	6,297.49	-497.44	876.78	1,007.99	1.51	-0.48	-96.15
6,523.00	0.75	95.85	6,387.49	-497.27	877.91	1,008.89	0.42	0.00	32.22
6,614.00	0.81	98.98	6,478.48	-497.43	879.14	1,010.05	0.08	0.07	3.44
6,705.00	0.63	123.48	6,569.47	-497.81	880.19	1,011.15	0.39	-0.20	26.92
6,795.00	1.06	181.35	6,659.46	-498.91	880.59	1,012.03	1.00	0.48	64.30
6,886.00	0.88	81.60	6,750.45	-499.65	881.26	1,012.97	1.64	-0.20	-109.62
6,977.00	0.50	98.98	6,841.45	-499.61	882.34	1,013.90	0.47	-0.42	19.10
7,067.00	1.00	342.98	6,931.44	-498.92	882.50	1,013.71	1.44	0.56	-128.89
7,158.00	0.31	17.73	7,022.44	-497.93	882.34	1,013.09	0.84	-0.76	38.19
7,248.00	1.06	54.60	7,112.43	-497.21	883.09	1,013.41	0.93	0.83	40.97
7,339.00	1.06	333.73	7,203.42	-495.97	883.41	1,013.08	1.51	0.00	-88.87
7,429.00	0.63	337.35	7,293.41	-494.77	882.85	1,012.01	0.48	-0.48	4.02
7,520.00	0.56	0.10	7,384.40	-493.86	882.66	1,011.40	0.27	-0.08	25.00
7,611.00	0.50	72.85	7,475.40	-493.30	883.04	1,011.47	0.69	-0.07	79.95
7,701.00	0.69	111.73	7,565.40	-493.38	883.92	1,012.28	0.48	0.21	43.20
7,792.00	1.02	111.45	7,656.39	-493.88	885.18	1,013.62	0.36	0.36	-0.31
7,883.00	0.25	59.23	7,747.38	-494.08	886.10	1,014.53	0.98	-0.85	-57.38
7,973.00	0.25	147.48	7,837.38	-494.14	886.38	1,014.80	0.39	0.00	98.06
8,064.00	0.63	156.73	7,928.38	-494.77	886.68	1,015.37	0.42	0.42	10.16
8,155.00	0.75	143.10	8,019.37	-495.71	887.24	1,016.31	0.22	0.13	-14.98
8,245.00	0.88	140.23	8,109.36	-496.71	888.03	1,017.49	0.15	0.14	-3.19
8,336.00	0.94	145.48	8,200.35	-497.86	888.90	1,018.81	0.11	0.07	5.77
8,427.00	1.06	132.22	8,291.34	-499.04	889.95	1,020.29	0.29	0.13	-14.57
391			36						
36			8055						

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-614S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-61 PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-614S	North Reference:	True
Wellbore:	Bonanza 1023-614S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-614S	Database:	edm5000p

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)
8,512.00	1.13	123.10	8,376.32	-500.03	891.23	1,021.89	0.22	0.08	-10.73
last mwd survey									
8,569.00	1.18	116.98	8,433.31	-500.60	892.23	1,023.04	0.23	0.09	-10.74
projection									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,070.00	2,000.18	-221.66	402.15	tie on point
8,512.00	8,376.32	-500.03	891.23	last mwd survey
8,569.00	8,433.31	-500.60	892.23	projection

Checked By: _____	Approved By: _____	Date: _____
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US ROCKIES REGION PLANNING

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

UINTAH_BONANZA 1023-6I PAD

Bonanza 1023-6I4S

Bonanza 1023-6I4S

Design: Bonanza 1023-6I4S

Survey Report - Geographic

17 February, 2011



Weatherford®



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-614S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-6I PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-614S	North Reference:	True
Wellbore:	Bonanza 1023-614S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-614S	Database:	edm5000p

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

Site	UINTAH_BONANZA 1023-6I PAD				
Site Position:		Northing:	14,521,707.58 ft	Latitude:	39.976528
From:	Lat/Long	Easting:	2,099,052.39 ft	Longitude:	-109.362956
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	1.05 °

Well	Bonanza 1023-614S					
Well Position	+N/-S	0.00 ft	Northing:	14,521,671.49 ft	Latitude:	39.976428
	+E/-W	0.00 ft	Easting:	2,099,070.99 ft	Longitude:	-109.362892
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,181.00 ft

Wellbore	Bonanza 1023-614S				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/16/2010	11.08	65.89	52,383

Design	Bonanza 1023-614S				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	118.86	

Survey Program	Date 2/17/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
135.00	2,070.00	Survey #1 (Bonanza 1023-614S)	MWD	MWD - Standard	
2,126.00	8,569.00	Survey #2 (Bonanza 1023-614S)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,521,671.49	2,099,070.99	39.976428	-109.362892	
135.00	0.29	178.42	135.00	-0.34	0.01	14,521,671.15	2,099,071.00	39.976427	-109.362892	
220.00	1.58	110.28	219.99	-0.96	1.11	14,521,670.55	2,099,072.12	39.976425	-109.362888	
303.00	4.20	106.76	302.87	-2.24	5.10	14,521,669.35	2,099,076.13	39.976422	-109.362874	
390.00	5.16	109.57	389.58	-4.47	11.84	14,521,667.24	2,099,082.90	39.976416	-109.362850	
480.00	5.95	114.42	479.16	-7.75	19.90	14,521,664.11	2,099,091.02	39.976407	-109.362821	
570.00	7.12	117.41	568.57	-12.25	29.10	14,521,659.78	2,099,100.30	39.976394	-109.362788	
660.00	7.77	116.64	657.82	-17.54	39.49	14,521,654.68	2,099,110.79	39.976380	-109.362751	
750.00	9.05	120.44	746.85	-23.86	51.03	14,521,648.57	2,099,122.44	39.976363	-109.362710	
840.00	10.25	123.00	835.57	-31.80	63.85	14,521,640.86	2,099,135.41	39.976341	-109.362664	
930.00	11.33	122.92	923.98	-40.97	77.98	14,521,631.96	2,099,149.71	39.976316	-109.362614	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-6I4S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-6I PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-6I4S	North Reference:	True
Wellbore:	Bonanza 1023-6I4S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-6I4S	Database:	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
1,020.00	12.87	121.91	1,011.98	-51.07	93.91	14,521,622.15	2,099,165.82	39.976288	-109.362557
1,110.00	14.77	119.48	1,099.37	-62.02	112.41	14,521,611.55	2,099,184.52	39.976258	-109.362491
1,200.00	17.49	117.68	1,185.82	-73.95	134.38	14,521,600.02	2,099,206.70	39.976225	-109.362413
1,290.00	19.76	118.27	1,271.10	-87.44	159.76	14,521,587.00	2,099,232.32	39.976188	-109.362322
1,380.00	21.36	118.46	1,355.36	-102.46	187.57	14,521,572.50	2,099,260.40	39.976147	-109.362223
1,470.00	21.27	118.45	1,439.21	-118.04	216.33	14,521,557.44	2,099,289.45	39.976104	-109.362120
1,560.00	20.97	119.37	1,523.16	-133.72	244.72	14,521,542.29	2,099,318.12	39.976061	-109.362019
1,650.00	21.85	119.08	1,606.95	-149.76	273.39	14,521,526.78	2,099,347.08	39.976017	-109.361917
1,740.00	21.07	119.13	1,690.71	-165.77	302.16	14,521,511.29	2,099,376.14	39.975973	-109.361814
1,830.00	20.28	118.68	1,774.91	-181.13	329.97	14,521,496.45	2,099,404.23	39.975931	-109.361715
1,920.00	20.60	118.31	1,859.25	-196.13	357.60	14,521,481.96	2,099,432.13	39.975890	-109.361616
2,010.00	19.75	120.28	1,943.73	-211.30	384.67	14,521,467.28	2,099,459.47	39.975848	-109.361520
2,070.00	19.84	120.97	2,000.18	-221.66	402.15	14,521,457.26	2,099,477.14	39.975820	-109.361457
tie on point									
2,126.00	19.80	118.66	2,052.86	-231.09	418.63	14,521,448.12	2,099,493.78	39.975794	-109.361398
2,172.00	18.96	118.13	2,096.26	-238.35	432.05	14,521,441.11	2,099,507.34	39.975774	-109.361350
2,262.00	17.52	117.63	2,181.73	-251.53	456.95	14,521,428.39	2,099,532.48	39.975737	-109.361262
2,353.00	15.56	119.10	2,268.96	-263.82	479.75	14,521,416.52	2,099,555.50	39.975704	-109.361180
2,444.00	15.38	117.35	2,356.67	-275.30	501.13	14,521,405.44	2,099,577.09	39.975672	-109.361104
2,535.00	14.88	123.35	2,444.52	-287.27	521.61	14,521,393.85	2,099,597.79	39.975639	-109.361031
2,625.00	14.25	123.10	2,531.62	-299.67	540.55	14,521,381.79	2,099,616.94	39.975605	-109.360963
2,716.00	14.19	121.22	2,619.84	-311.57	559.47	14,521,370.25	2,099,636.08	39.975573	-109.360896
2,806.00	16.63	119.48	2,706.60	-323.63	580.12	14,521,358.57	2,099,656.95	39.975540	-109.360822
2,897.00	15.56	116.72	2,794.03	-335.52	602.35	14,521,347.08	2,099,679.40	39.975507	-109.360743
2,988.00	15.44	113.23	2,881.72	-345.79	624.39	14,521,337.22	2,099,701.62	39.975479	-109.360664
3,079.00	14.00	114.60	2,969.73	-355.15	645.53	14,521,328.25	2,099,722.93	39.975453	-109.360589
3,170.00	12.88	114.60	3,058.24	-363.95	664.76	14,521,319.80	2,099,742.32	39.975429	-109.360520
3,260.00	14.00	121.60	3,145.78	-373.83	683.16	14,521,310.26	2,099,760.89	39.975402	-109.360454
3,351.00	13.75	116.98	3,234.13	-384.51	702.17	14,521,299.94	2,099,780.10	39.975372	-109.360387
3,442.00	14.13	117.73	3,322.45	-394.58	721.64	14,521,290.22	2,099,799.75	39.975345	-109.360317
3,532.00	13.31	117.98	3,409.88	-404.56	740.51	14,521,280.60	2,099,818.80	39.975317	-109.360250
3,623.00	12.00	115.35	3,498.66	-413.52	758.31	14,521,271.96	2,099,836.76	39.975293	-109.360186
3,713.00	12.31	118.72	3,586.65	-422.14	775.18	14,521,263.66	2,099,853.79	39.975269	-109.360126
3,804.00	11.00	118.23	3,675.77	-430.91	791.34	14,521,255.19	2,099,870.10	39.975245	-109.360068
3,895.00	9.13	120.60	3,765.37	-438.69	805.20	14,521,247.66	2,099,884.11	39.975224	-109.360019
3,985.00	10.19	121.23	3,854.09	-446.45	818.16	14,521,240.14	2,099,897.20	39.975202	-109.359973
4,076.00	9.75	124.35	3,943.71	-454.97	831.40	14,521,231.86	2,099,910.60	39.975179	-109.359925
4,167.00	9.13	117.60	4,033.48	-462.67	844.16	14,521,224.40	2,099,923.50	39.975158	-109.359880
4,258.00	7.06	117.23	4,123.57	-468.57	855.53	14,521,218.71	2,099,934.98	39.975142	-109.359839
4,348.00	5.25	113.73	4,213.05	-472.76	864.22	14,521,214.68	2,099,943.74	39.975130	-109.359808
4,439.00	3.63	127.23	4,303.78	-476.18	870.33	14,521,211.37	2,099,949.91	39.975121	-109.359786
4,530.00	1.44	133.60	4,394.68	-478.71	873.45	14,521,208.90	2,099,953.08	39.975114	-109.359775
4,620.00	0.56	297.23	4,484.68	-479.29	873.88	14,521,208.33	2,099,953.52	39.975112	-109.359774
4,711.00	0.44	275.23	4,575.67	-479.05	873.13	14,521,208.55	2,099,952.77	39.975113	-109.359776
4,801.00	0.50	256.85	4,665.67	-479.11	872.41	14,521,208.48	2,099,952.04	39.975113	-109.359779
4,892.00	0.50	251.73	4,756.67	-479.32	871.64	14,521,208.25	2,099,951.28	39.975112	-109.359782
4,983.00	0.56	230.10	4,847.66	-479.73	870.93	14,521,207.83	2,099,950.57	39.975111	-109.359784
5,074.00	0.94	205.60	4,938.65	-480.69	870.26	14,521,206.86	2,099,949.93	39.975108	-109.359787
5,165.00	0.75	209.85	5,029.64	-481.88	869.64	14,521,205.66	2,099,949.33	39.975105	-109.359789
5,255.00	0.81	198.85	5,119.64	-482.99	869.14	14,521,204.53	2,099,948.85	39.975102	-109.359791
5,345.00	0.69	172.48	5,209.63	-484.13	869.01	14,521,203.39	2,099,948.74	39.975099	-109.359791
5,436.00	0.75	148.85	5,300.62	-485.19	869.39	14,521,202.35	2,099,949.14	39.975096	-109.359790
5,527.00	0.94	143.35	5,391.61	-486.30	870.14	14,521,201.25	2,099,949.91	39.975093	-109.359787
5,617.00	1.13	144.48	5,481.60	-487.61	871.10	14,521,199.96	2,099,950.89	39.975089	-109.359784
5,708.00	0.13	176.98	5,572.59	-488.44	871.63	14,521,199.13	2,099,951.43	39.975087	-109.359782

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Bonanza 1023-614S
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	@ 5185.00ft
Site:	UINTAH_BONANZA 1023-61 PAD	MD Reference:	@ 5185.00ft
Well:	Bonanza 1023-614S	North Reference:	True
Wellbore:	Bonanza 1023-614S	Survey Calculation Method:	Minimum Curvature
Design:	Bonanza 1023-614S	Database:	edm5000p

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,798.00	0.25	178.10	5,662.59	-488.74	871.64	14,521,198.83	2,099,951.45	39.975086	-109.359782
5,889.00	0.63	166.22	5,753.59	-489.43	871.76	14,521,198.15	2,099,951.59	39.975084	-109.359781
5,980.00	1.13	147.85	5,844.58	-490.67	872.36	14,521,196.92	2,099,952.21	39.975081	-109.359779
6,070.00	1.31	145.10	5,934.56	-492.27	873.42	14,521,195.34	2,099,953.30	39.975076	-109.359775
6,161.00	1.50	146.23	6,025.53	-494.11	874.68	14,521,193.52	2,099,954.59	39.975071	-109.359771
6,251.00	0.56	174.47	6,115.51	-495.53	875.38	14,521,192.12	2,099,955.31	39.975068	-109.359768
6,342.00	1.19	154.35	6,206.50	-496.82	875.83	14,521,190.83	2,099,955.79	39.975064	-109.359767
6,433.00	0.75	66.85	6,297.49	-497.44	876.78	14,521,190.23	2,099,956.76	39.975062	-109.359763
6,523.00	0.75	95.85	6,387.49	-497.27	877.91	14,521,190.42	2,099,957.88	39.975063	-109.359759
6,614.00	0.81	98.98	6,478.48	-497.43	879.14	14,521,190.29	2,099,959.11	39.975062	-109.359755
6,705.00	0.63	123.48	6,569.47	-497.81	880.19	14,521,189.93	2,099,960.17	39.975061	-109.359751
6,795.00	1.06	181.35	6,659.46	-498.91	880.59	14,521,188.83	2,099,960.58	39.975058	-109.359750
6,886.00	0.88	81.60	6,750.45	-499.65	881.26	14,521,188.10	2,099,961.27	39.975056	-109.359747
6,977.00	0.50	98.98	6,841.45	-499.61	882.34	14,521,188.16	2,099,962.35	39.975056	-109.359744
7,067.00	1.00	342.98	6,931.44	-498.92	882.50	14,521,188.86	2,099,962.50	39.975058	-109.359743
7,158.00	0.31	17.73	7,022.44	-497.93	882.34	14,521,189.85	2,099,962.32	39.975061	-109.359744
7,248.00	1.06	54.60	7,112.43	-497.21	883.09	14,521,190.58	2,099,963.06	39.975063	-109.359741
7,339.00	1.06	333.73	7,203.42	-495.97	883.41	14,521,191.82	2,099,963.35	39.975066	-109.359740
7,429.00	0.63	337.35	7,293.41	-494.77	882.85	14,521,193.02	2,099,962.77	39.975070	-109.359742
7,520.00	0.56	0.10	7,384.40	-493.86	882.66	14,521,193.92	2,099,962.56	39.975072	-109.359742
7,611.00	0.50	72.85	7,475.40	-493.30	883.04	14,521,194.49	2,099,962.93	39.975074	-109.359741
7,701.00	0.69	111.73	7,565.40	-493.38	883.92	14,521,194.42	2,099,963.81	39.975073	-109.359738
7,792.00	1.02	111.45	7,656.39	-493.88	885.18	14,521,193.94	2,099,965.08	39.975072	-109.359733
7,883.00	0.25	59.23	7,747.38	-494.08	886.10	14,521,193.77	2,099,966.01	39.975072	-109.359730
7,973.00	0.25	147.48	7,837.38	-494.14	886.38	14,521,193.71	2,099,966.29	39.975071	-109.359729
8,064.00	0.63	156.73	7,928.38	-494.77	886.68	14,521,193.08	2,099,966.60	39.975070	-109.359728
8,155.00	0.75	143.10	8,019.37	-495.71	887.24	14,521,192.16	2,099,967.18	39.975067	-109.359726
8,245.00	0.88	140.23	8,109.36	-496.71	888.03	14,521,191.17	2,099,967.99	39.975064	-109.359723
8,336.00	0.94	145.48	8,200.35	-497.86	888.90	14,521,190.03	2,099,968.88	39.975061	-109.359720
8,427.00	1.06	132.22	8,291.34	-499.04	889.95	14,521,188.87	2,099,969.95	39.975058	-109.359716
8,512.00	1.13	123.10	8,376.32	-500.03	891.23	14,521,187.91	2,099,971.25	39.975055	-109.359712
last mwd survey projection									
8,569.00	1.18	116.98	8,433.31	-500.60	892.23	14,521,187.36	2,099,972.25	39.975054	-109.359708

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,070.00	2,000.18	-221.66	402.15	tie on point
8,512.00	8,376.32	-500.03	891.23	last mwd survey
8,569.00	8,433.31	-500.60	892.23	projection

Checked By: _____ Approved By: _____ Date: _____

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

FORM 6

ENTITY ACTION FORM

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

Well 1

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

Well 2

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

Well 3

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

ACTION CODES:

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

RECEIVED

MAY 21 2012

Div. of Oil, Gas & Mining

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

5/21/2012

Title

Date

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

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

* not moved in unit

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

BONANZA 8-3	08	100S	230E	4304734770	13843			1	GW	P	NWNW			1	MVRD	P	U-37355	N2995
BONANZA 1023-8A	08	100S	230E	4304735718	14932			1	GW	P	NENE			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8L	08	100S	230E	4304735719	14876			1	GW	P	NWSW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8N	08	100S	230E	4304735720	15104			1	GW	P	SESW			1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8F	08	100S	230E	4304735989	14877			1	GW	S	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	P	NENW	D			P	UTU 38419	N2995
BONANZA 1023-6D3AS	6	100S	230E	4304751452	18317			GW	P	NENW	D		WSMVD	P	UTU 38419	N2995