

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 1023-2K1S		
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) ML 47062		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" 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	2115 FNL 1680 FWL	SE	2	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	2395 FSL 2070 FWL	NE	2	10.0 S	23.0 E	S
At Total Depth	2395 FSL 2070 FWL	NE	2	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 2070		23. NUMBER OF ACRES IN DRILLING UNIT 20		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 875		26. PROPOSED DEPTH MD: 8160 TVD: 8000		
27. ELEVATION - GROUND LEVEL 5438		28. BOND NUMBER 22013542		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 Kathy Schneebeck-Dulnoan	TITLE Staff Regulatory Analyst	PHONE 720 929-6007
SIGNATURE	DATE 05/01/2009	EMAIL Kathy.SchneebeckDulnoan@anadarko.com
API NUMBER ASSIGNED 43047503820000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8160		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	8160	11.6			

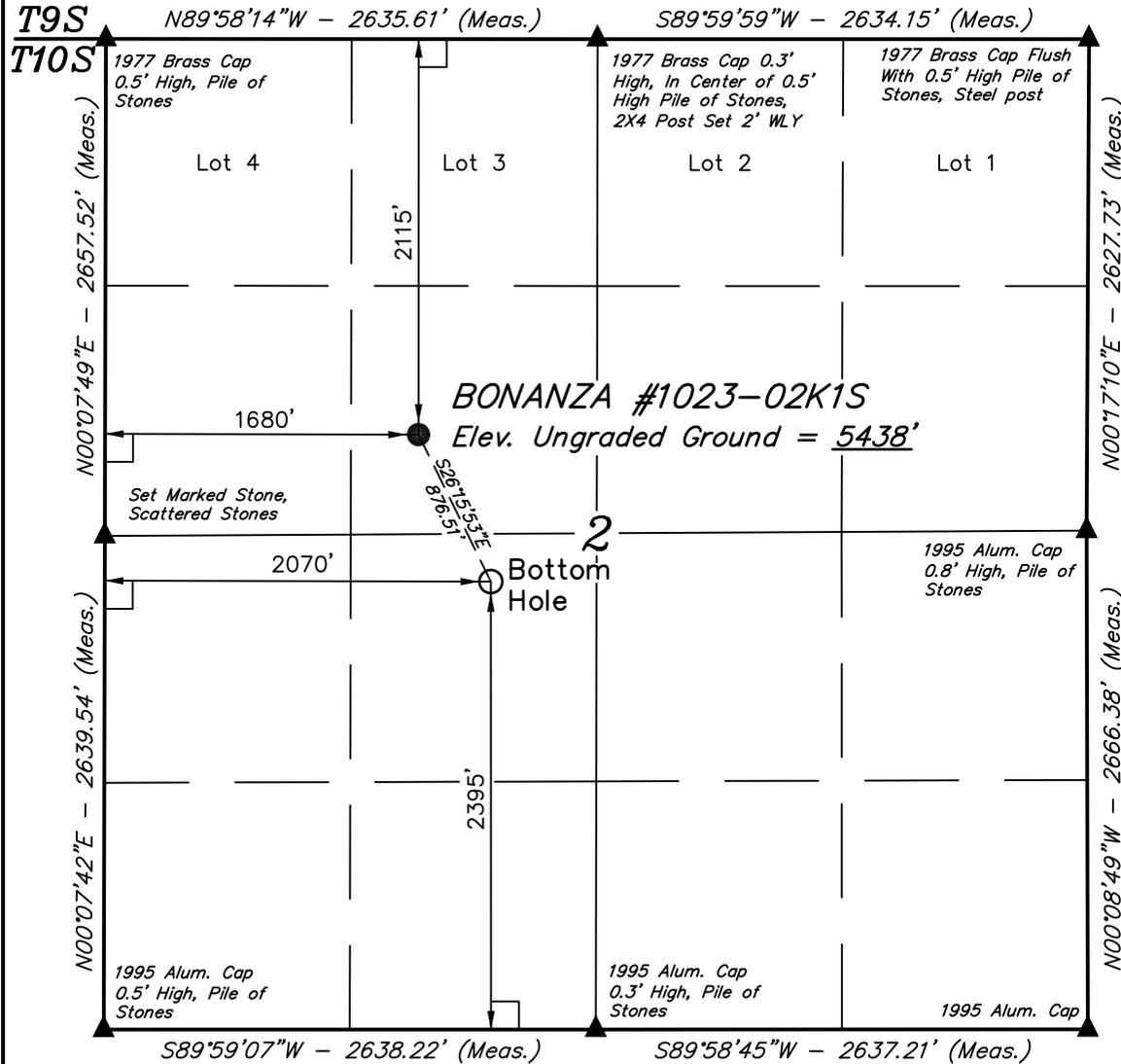
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2175		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2175	36.0			

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

Kerr-McGee Oil & Gas Onshore LP

Well location, BONANZA #1023-02K1S, located as shown in the SE 1/4 NW 1/4 of Section 2, T10S, R23E, S.L.B.&M., Uintah County, Utah.

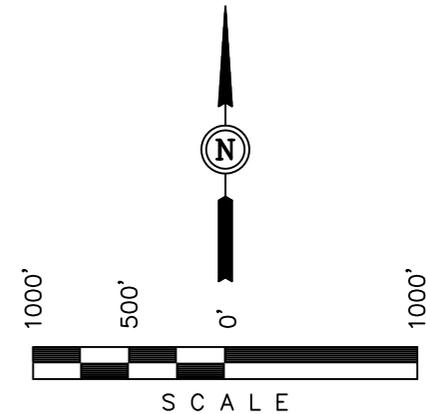


BASIS OF ELEVATION

BENCH MARK 58 EAM (1965) LOCATED IN THE NE 1/4 OF SECTION 30, T9S, R23E, S.L.B.&M., TAKEN FROM THE RED WASH SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5132 FEET.

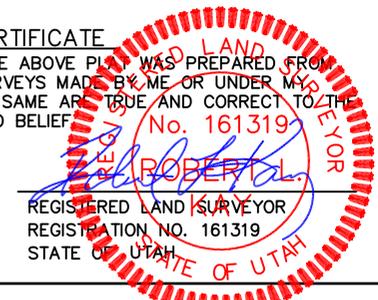
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

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



REVISED: 04-08-09

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°58'38.09" (39.977247)	LATITUDE = 39°58'45.86" (39.979406)
LONGITUDE = 109°17'46.51" (109.296253)	LONGITUDE = 109°17'51.48" (109.297633)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°58'38.21" (39.977281)	LATITUDE = 39°58'45.98" (39.979440)
LONGITUDE = 109°17'44.08" (109.295578)	LONGITUDE = 109°17'49.05" (109.296957)

SCALE 1" = 1000'	DATE SURVEYED: 09-26-08	DATE DRAWN: 10-15-08
PARTY D.K. D.D. D.P.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

APIWellNo:43047503820000



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-2F Pad

Bonanza 1023-02K1S

Bonanza 1023-02K1S

Plan: Design #1

Standard Planning Report

09 April, 2009



Weatherford®



WELL DETAILS: Bonanza 1023-02K1S						
+N/-S	+E/-W	Northing	Easting	Ground Level:	5438.00	Slot
0.00	0.00	14523114.39	2117523.41	Latitude	39° 58' 45.984 N	109° 17' 49.045 W

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		
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00		
3124.34	25.61	153.83	3090.57	-202.05	99.29	2.50	153.83	225.13		
3979.56	25.61	153.83	3861.78	-533.80	262.32	0.00	0.00	594.77		
5259.98	0.00	0.00	5100.00	-786.37	386.43	2.00	180.00	876.18		
8159.98	0.00	0.00	8000.00	-786.37	386.43	0.00	0.00	876.18		PBHL_Bonanza 1023-02K1S

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8000.00	-786.37	386.43	39° 58' 38.212 N	109° 17' 44.081 W	Circle (Radius: 25.00)

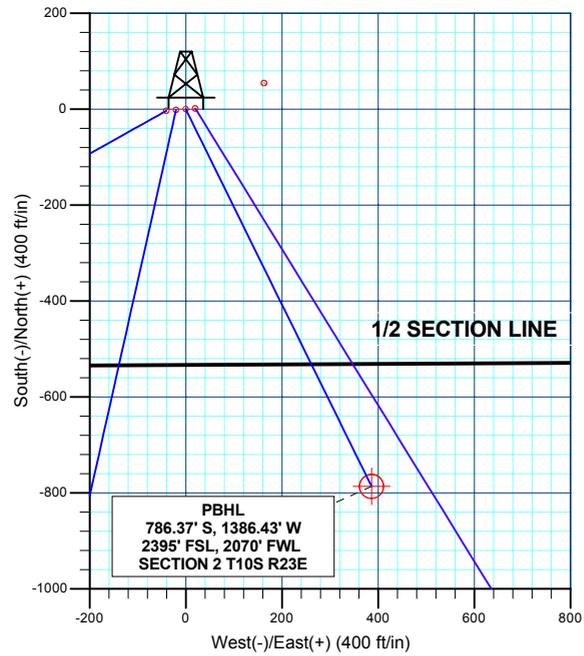
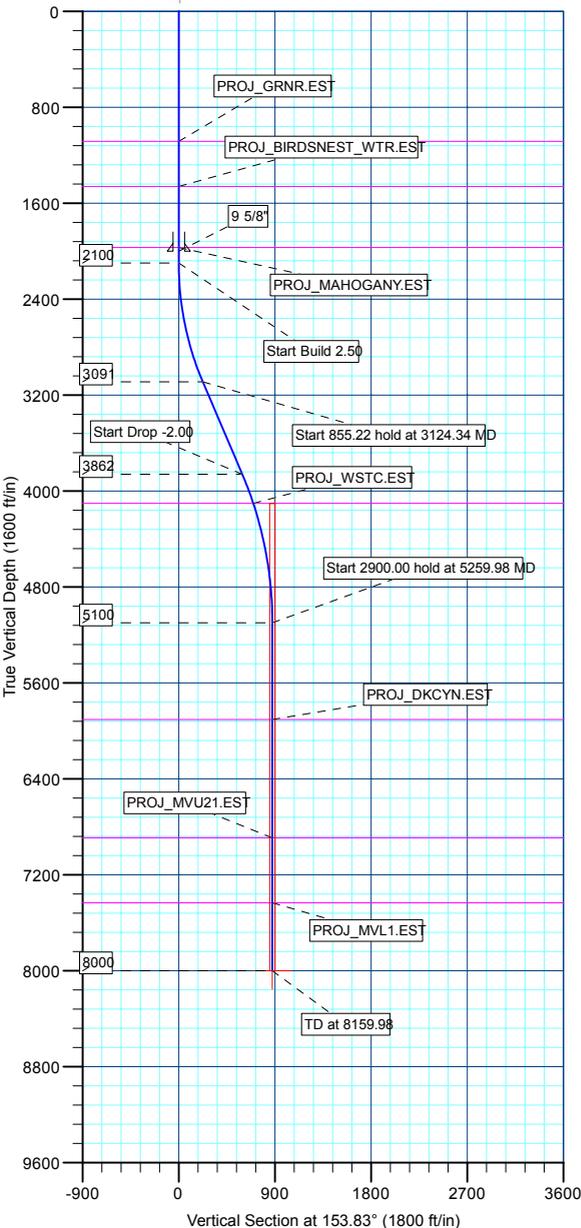
ANTICOLLISION NOTE: NO OFFSET SURVEYS FOR THE NBU-2F EXISTING WELL. THE WELL WAS ASSUMED VERTICAL TO 8000' FT, USING AN UNKNOWN TOOL CODE.

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1085.00	1085.00	PROJ_GRNR.EST
1462.00	1462.00	PROJ_BIRDSNEST_WTR.EST
1970.00	1970.00	PROJ_MAHOGANY.EST
4103.00	4241.67	PROJ_WSTC.EST
5906.00	6065.98	PROJ_DKYN.EST
6893.00	7052.98	PROJ_MVU21.EST
7434.00	7593.98	PROJ_MVL1.EST

CASING DETAILS			
TVD	MD	Name	Size
2000.00	2000.00	9 5/8"	9.62



WELL @ 5456.00ft (Original Well Elev)
 GRD ELEV: 5438.00





Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site:	Bonanza 1023-2F Pad	North Reference:	True
Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-02K1S		
Design:	Design #1		

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 1023-2F Pad, SECTION 2 T10S R23E				
Site Position:		Northing:	14,523,116.22 ft	Latitude:	39° 58' 45.998 N
From:	Lat/Long	Easting:	2,117,543.28 ft	Longitude:	109° 17' 48.790 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.09 °

Well	Bonanza 1023-02K1S					
Well Position	+N/-S	-1.46 ft	Northing:	14,523,114.39 ft	Latitude:	39° 58' 45.984 N
	+E/-W	-19.90 ft	Easting:	2,117,523.41 ft	Longitude:	109° 17' 49.045 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,438.00 ft

Wellbore	Bonanza 1023-02K1S				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2008	4/9/2009	11.29	65.98	52,575

Design	Design #1			
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	153.83

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	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,124.34	25.61	153.83	3,090.57	-202.05	99.29	2.50	2.50	0.00	153.83	
3,979.56	25.61	153.83	3,861.78	-533.80	262.32	0.00	0.00	0.00	0.00	
5,259.98	0.00	0.00	5,100.00	-786.37	386.43	2.00	-2.00	0.00	180.00	
8,159.98	0.00	0.00	8,000.00	-786.37	386.43	0.00	0.00	0.00	0.00	PBHL_Bonanza 10:



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site:	Bonanza 1023-2F Pad	North Reference:	True
Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-02K1S		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 2.50									
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	2.50	153.83	2,199.97	-1.96	0.96	2.18	2.50	2.50	0.00
2,300.00	5.00	153.83	2,299.75	-7.83	3.85	8.72	2.50	2.50	0.00
2,400.00	7.50	153.83	2,399.14	-17.60	8.65	19.61	2.50	2.50	0.00
2,500.00	10.00	153.83	2,497.97	-31.25	15.36	34.82	2.50	2.50	0.00
2,600.00	12.50	153.83	2,596.04	-48.76	23.96	54.33	2.50	2.50	0.00
2,700.00	15.00	153.83	2,693.17	-70.09	34.44	78.09	2.50	2.50	0.00
2,800.00	17.50	153.83	2,789.17	-95.20	46.78	106.07	2.50	2.50	0.00
2,900.00	20.00	153.83	2,883.85	-124.05	60.96	138.21	2.50	2.50	0.00
3,000.00	22.50	153.83	2,977.05	-156.57	76.94	174.46	2.50	2.50	0.00
3,100.00	25.00	153.83	3,068.57	-192.72	94.70	214.73	2.50	2.50	0.00
Start 855.22 hold at 3124.34 MD									
3,124.34	25.61	153.83	3,090.57	-202.05	99.29	225.13	2.50	2.50	0.00
3,200.00	25.61	153.83	3,158.80	-231.40	113.71	257.83	0.00	0.00	0.00
3,300.00	25.61	153.83	3,248.98	-270.19	132.78	301.05	0.00	0.00	0.00
3,400.00	25.61	153.83	3,339.16	-308.98	151.84	344.28	0.00	0.00	0.00
3,500.00	25.61	153.83	3,429.33	-347.78	170.90	387.50	0.00	0.00	0.00
3,600.00	25.61	153.83	3,519.51	-386.57	189.96	430.72	0.00	0.00	0.00
3,700.00	25.61	153.83	3,609.69	-425.36	209.03	473.94	0.00	0.00	0.00
3,800.00	25.61	153.83	3,699.86	-464.15	228.09	517.16	0.00	0.00	0.00
3,900.00	25.61	153.83	3,790.04	-502.94	247.15	560.39	0.00	0.00	0.00
Start Drop -2.00									
3,979.56	25.61	153.83	3,861.78	-533.80	262.32	594.77	0.00	0.00	0.00
4,000.00	25.20	153.83	3,880.25	-541.67	266.18	603.54	2.00	-2.00	0.00
4,100.00	23.20	153.83	3,971.46	-578.46	284.26	644.53	2.00	-2.00	0.00
4,200.00	21.20	153.83	4,064.04	-612.37	300.92	682.31	2.00	-2.00	0.00
PROJ_WSTC.EST									
4,241.67	20.37	153.83	4,103.00	-625.64	307.45	697.10	2.00	-2.00	0.00
4,300.00	19.20	153.83	4,157.88	-643.36	316.15	716.84	2.00	-2.00	0.00
4,400.00	17.20	153.83	4,252.88	-671.39	329.93	748.07	2.00	-2.00	0.00
4,500.00	15.20	153.83	4,348.90	-696.42	342.23	775.97	2.00	-2.00	0.00
4,600.00	13.20	153.83	4,445.84	-718.44	353.05	800.50	2.00	-2.00	0.00
4,700.00	11.20	153.83	4,543.58	-737.40	362.37	821.63	2.00	-2.00	0.00
4,800.00	9.20	153.83	4,641.99	-753.29	370.18	839.34	2.00	-2.00	0.00
4,900.00	7.20	153.83	4,740.96	-766.09	376.47	853.60	2.00	-2.00	0.00
5,000.00	5.20	153.83	4,840.37	-775.79	381.23	864.40	2.00	-2.00	0.00
5,100.00	3.20	153.83	4,940.10	-782.36	384.46	871.72	2.00	-2.00	0.00
5,200.00	1.20	153.83	5,040.02	-785.80	386.15	875.56	2.00	-2.00	0.00
Start 2900.00 hold at 5259.98 MD									
5,259.98	0.00	0.00	5,100.00	-786.37	386.43	876.18	2.00	-2.00	-256.46
5,300.00	0.00	0.00	5,140.02	-786.37	386.43	876.18	0.00	0.00	0.00
5,400.00	0.00	0.00	5,240.02	-786.37	386.43	876.18	0.00	0.00	0.00
5,500.00	0.00	0.00	5,340.02	-786.37	386.43	876.18	0.00	0.00	0.00
5,600.00	0.00	0.00	5,440.02	-786.37	386.43	876.18	0.00	0.00	0.00
5,700.00	0.00	0.00	5,540.02	-786.37	386.43	876.18	0.00	0.00	0.00
5,800.00	0.00	0.00	5,640.02	-786.37	386.43	876.18	0.00	0.00	0.00
5,900.00	0.00	0.00	5,740.02	-786.37	386.43	876.18	0.00	0.00	0.00
6,000.00	0.00	0.00	5,840.02	-786.37	386.43	876.18	0.00	0.00	0.00
PROJ_DKCYN.EST									
6,065.98	0.00	0.00	5,906.00	-786.37	386.43	876.18	0.00	0.00	0.00
6,100.00	0.00	0.00	5,940.02	-786.37	386.43	876.18	0.00	0.00	0.00
6,200.00	0.00	0.00	6,040.02	-786.37	386.43	876.18	0.00	0.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site:	Bonanza 1023-2F Pad	North Reference:	True
Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-02K1S		
Design:	Design #1		

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)	
6,300.00	0.00	0.00	6,140.02	-786.37	386.43	876.18	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,240.02	-786.37	386.43	876.18	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,340.02	-786.37	386.43	876.18	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,440.02	-786.37	386.43	876.18	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,540.02	-786.37	386.43	876.18	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,640.02	-786.37	386.43	876.18	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,740.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,840.02	-786.37	386.43	876.18	0.00	0.00	0.00	
PROJ_MVU21.EST										
7,052.98	0.00	0.00	6,893.00	-786.37	386.43	876.18	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,940.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,040.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,140.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,240.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,340.02	-786.37	386.43	876.18	0.00	0.00	0.00	
PROJ_MVL1.EST										
7,593.98	0.00	0.00	7,434.00	-786.37	386.43	876.18	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,440.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,540.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,640.02	-786.37	386.43	876.18	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,740.02	-786.37	386.43	876.18	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,840.02	-786.37	386.43	876.18	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,940.02	-786.37	386.43	876.18	0.00	0.00	0.00	
PBHL_Bonanza 1023-02K1S										
8,159.98	0.00	0.00	8,000.00	-786.37	386.43	876.18	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 - Circle (radius 25.00)	0.00	0.00	8,000.00	-786.37	386.43	14,522,335.55	2,117,924.79	39° 58' 38.212 N	109° 17' 44.081 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (in)	Hole Diameter (in)	
2,000.00	2,000.00	9 5/8"		9.62	12.25	



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site:	Bonanza 1023-2F Pad	North Reference:	True
Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bonanza 1023-02K1S		
Design:	Design #1		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,085.00	1,085.00	PROJ_GNRN.EST			
1,462.00	1,462.00	PROJ_BIRDSNEST_WTR.EST			
1,970.00	1,970.00	PROJ_MAHOGANY.EST			
4,241.67	4,103.00	PROJ_WSTC.EST			
6,065.98	5,906.00	PROJ_DKCYN.EST			
7,052.98	6,893.00	PROJ_MVU21.EST			
7,593.98	7,434.00	PROJ_MVL1.EST			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,100.00	2,100.00	0.00	0.00	Start Build 2.50	
3,124.34	3,090.57	-202.05	99.29	Start 855.22 hold at 3124.34 MD	
3,979.56	3,861.78	-533.80	262.32	Start Drop -2.00	
5,259.98	5,100.00	-786.37	386.43	Start 2900.00 hold at 5259.98 MD	
8,159.98	8,000.00	-786.37	386.43	TD at 8159.98	



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-2F Pad

Bonanza 1023-02K1S

Bonanza 1023-02K1S

Design #1

Anticollision Report

09 April, 2009



Weatherford®



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
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 4/9/2009			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,159.98	Design #1 (Bonanza 1023-02K1S)	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 1023-2F Pad						
Bonanza 1023-02K4S - Bonanza 1023-02K4S - Design #	2,000.00	2,000.00	19.95	11.22	2.286	CC, ES, SF
Bonanza 1023-02L2S - Bonanza 1023-02L2S - Design #	2,100.00	2,100.00	40.20	31.03	4.382	CC, ES, SF
Bonanza 1023-02M1S - Bonanza 1023-02M1S - Design	1,900.00	1,900.00	20.26	11.98	2.448	CC, ES
Bonanza 1023-02M1S - Bonanza 1023-02M1S - Design	2,000.00	1,999.67	21.02	12.33	2.418	SF
NBU 1023-2F EXISTING (ASSUMED VERTICAL) - NBU	2,426.52	2,425.41	170.30	116.71	3.178	CC
NBU 1023-2F EXISTING (ASSUMED VERTICAL) - NBU	2,500.00	2,497.97	170.70	115.51	3.093	ES
NBU 1023-2F EXISTING (ASSUMED VERTICAL) - NBU	2,700.00	2,693.17	178.92	119.50	3.011	SF

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:	0.00 ft	
Reference															
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)	+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	85.81	1.46	19.90	19.95						
100.00	100.00	100.00	100.00	0.09	0.09	85.81	1.46	19.90	19.95	19.76	0.18	108.235			
200.00	200.00	200.00	200.00	0.32	0.32	85.81	1.46	19.90	19.95	19.31	0.63	31.473			
300.00	300.00	300.00	300.00	0.54	0.54	85.81	1.46	19.90	19.95	18.87	1.08	18.413			
400.00	400.00	400.00	400.00	0.77	0.77	85.81	1.46	19.90	19.95	18.42	1.53	13.014			
500.00	500.00	500.00	500.00	0.99	0.99	85.81	1.46	19.90	19.95	17.97	1.98	10.063			
600.00	600.00	600.00	600.00	1.22	1.22	85.81	1.46	19.90	19.95	17.52	2.43	8.203			
700.00	700.00	700.00	700.00	1.44	1.44	85.81	1.46	19.90	19.95	17.07	2.88	6.923			
800.00	800.00	800.00	800.00	1.67	1.67	85.81	1.46	19.90	19.95	16.62	3.33	5.989			
900.00	900.00	900.00	900.00	1.89	1.89	85.81	1.46	19.90	19.95	16.17	3.78	5.277			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	85.81	1.46	19.90	19.95	15.72	4.23	4.716			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	85.81	1.46	19.90	19.95	15.27	4.68	4.263			
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	85.81	1.46	19.90	19.95	14.82	5.13	3.889			
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	85.81	1.46	19.90	19.95	14.37	5.58	3.576			
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	85.81	1.46	19.90	19.95	13.92	6.03	3.309			
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	85.81	1.46	19.90	19.95	13.47	6.48	3.080			
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	85.81	1.46	19.90	19.95	13.02	6.93	2.880			
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	85.81	1.46	19.90	19.95	12.57	7.38	2.704			
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	85.81	1.46	19.90	19.95	12.12	7.83	2.549			
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	85.81	1.46	19.90	19.95	11.67	8.28	2.410			
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	85.81	1.46	19.90	19.95	11.22	8.73	2.286	CC, ES, SF		

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 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	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				
2,100.00	2,100.00	2,099.54	2,099.51	4.59	4.56	91.05	-0.38	21.03	21.04	11.89	9.15	2.300				
2,200.00	2,199.97	2,198.86	2,198.61	4.79	4.74	-54.22	-5.89	24.41	23.81	14.30	9.51	2.503				
2,300.00	2,299.75	2,297.99	2,297.15	4.96	4.92	-48.21	-15.02	30.03	27.27	17.42	9.85	2.768				
2,400.00	2,399.14	2,396.94	2,394.95	5.15	5.13	-44.19	-27.75	37.85	31.20	21.00	10.20	3.060				
2,500.00	2,497.97	2,495.70	2,491.84	5.35	5.36	-41.62	-44.03	47.86	35.46	24.91	10.55	3.361				
2,600.00	2,596.04	2,594.27	2,587.63	5.58	5.64	-40.10	-63.82	60.01	39.97	29.04	10.93	3.658				
2,700.00	2,693.17	2,692.66	2,682.16	5.86	5.97	-39.33	-87.04	74.29	44.68	33.35	11.34	3.942				
2,800.00	2,789.17	2,790.86	2,775.26	6.19	6.37	-39.11	-113.65	90.64	49.57	37.78	11.79	4.203				
2,900.00	2,883.85	2,888.89	2,866.77	6.58	6.84	-39.28	-143.57	109.03	54.63	42.30	12.32	4.433				
3,000.00	2,977.05	2,986.74	2,956.54	7.06	7.40	-39.74	-176.73	129.42	59.84	46.89	12.95	4.622				
3,100.00	3,068.57	3,086.14	3,046.50	7.62	8.03	-41.11	-212.74	151.55	64.19	50.47	13.72	4.679				
3,124.34	3,090.57	3,110.46	3,068.50	7.77	8.20	-41.80	-221.57	156.98	64.78	50.83	13.95	4.644				
3,200.00	3,158.80	3,186.06	3,136.89	8.26	8.72	-44.12	-249.02	173.85	66.39	51.59	14.80	4.487				
3,300.00	3,248.98	3,285.98	3,227.28	8.94	9.44	-47.01	-285.31	196.15	68.67	52.65	16.02	4.286				
3,400.00	3,339.16	3,385.89	3,317.66	9.66	10.18	-49.70	-321.59	218.45	71.12	53.76	17.36	4.096				
3,500.00	3,429.33	3,485.81	3,408.05	10.40	10.95	-52.22	-357.87	240.75	73.72	54.92	18.80	3.921				
3,600.00	3,519.51	3,585.72	3,498.43	11.16	11.73	-54.55	-394.15	263.05	76.45	56.13	20.31	3.764				
3,700.00	3,609.69	3,685.64	3,588.82	11.94	12.53	-56.73	-430.43	285.35	79.29	57.40	21.89	3.623				
3,800.00	3,699.86	3,785.55	3,679.20	12.74	13.34	-58.75	-466.71	307.65	82.24	58.73	23.52	3.497				
3,900.00	3,790.04	3,885.47	3,769.59	13.55	14.16	-60.63	-502.99	329.95	85.29	60.11	25.18	3.387				
3,979.56	3,861.78	3,964.96	3,841.50	14.19	14.81	-62.03	-531.86	347.69	87.78	61.24	26.54	3.308				
4,000.00	3,880.25	3,985.39	3,859.98	14.34	14.98	-62.35	-539.27	352.25	88.46	61.59	26.87	3.292				
4,100.00	3,971.46	4,085.29	3,950.35	14.98	15.81	-62.68	-575.55	374.55	92.77	64.54	28.23	3.286				
4,200.00	4,064.04	4,185.07	4,040.61	15.59	16.65	-61.22	-611.78	396.82	98.72	69.45	29.27	3.373				
4,300.00	4,157.88	4,284.62	4,130.66	16.16	17.49	-58.35	-647.93	419.04	106.52	76.56	29.96	3.555				
4,400.00	4,252.88	4,383.80	4,220.39	16.69	18.32	-54.51	-683.95	441.17	116.57	86.26	30.31	3.846				
4,500.00	4,348.90	4,482.50	4,309.68	17.19	19.16	-50.16	-719.79	463.20	129.30	98.94	30.36	4.258				
4,600.00	4,445.84	4,580.61	4,398.42	17.64	20.00	-45.67	-755.41	485.10	145.10	114.91	30.19	4.807				
4,700.00	4,543.58	4,677.99	4,486.51	18.04	20.83	-41.35	-790.77	506.83	164.24	134.37	29.87	5.498				
4,800.00	4,641.99	4,774.53	4,573.85	18.40	21.66	-37.37	-825.82	528.38	186.90	157.40	29.51	6.334				
4,900.00	4,740.96	4,870.11	4,660.31	18.70	22.48	-33.81	-860.53	549.71	213.16	184.01	29.15	7.313				
5,000.00	4,840.37	4,964.62	4,745.81	18.96	23.30	-30.68	-894.85	570.81	243.02	214.20	28.82	8.432				
5,100.00	4,940.10	5,057.94	4,830.23	19.18	24.10	-27.97	-928.74	591.64	276.44	247.90	28.55	9.683				
5,200.00	5,040.02	5,149.96	4,913.47	19.34	24.90	-25.64	-962.15	612.17	313.37	285.05	28.32	11.064				
5,259.98	5,100.00	5,204.49	4,962.79	19.42	25.37	129.42	-981.95	624.34	337.17	308.96	28.20	11.955				
5,300.00	5,140.02	5,240.69	4,995.54	19.47	25.68	130.32	-995.10	632.42	353.49	325.33	28.16	12.554				
5,400.00	5,240.02	5,331.15	5,077.37	19.59	26.47	132.23	-1,027.94	652.61	394.55	366.39	28.15	14.014				
5,500.00	5,340.02	5,421.61	5,159.21	19.71	27.25	133.78	-1,060.79	672.80	435.90	407.64	28.26	15.425				
5,600.00	5,440.02	5,512.07	5,241.04	19.83	28.04	135.07	-1,093.64	692.99	477.48	449.04	28.45	16.785				
5,700.00	5,540.02	5,602.53	5,322.87	19.96	28.82	136.15	-1,126.49	713.18	519.23	490.54	28.70	18.094				
5,800.00	5,640.02	5,692.99	5,404.71	20.08	29.61	137.07	-1,159.34	733.37	561.11	532.12	28.99	19.356				
5,900.00	5,740.02	5,785.65	5,488.54	20.21	30.41	137.88	-1,192.97	754.04	603.08	573.76	29.32	20.569				
6,000.00	5,840.02	5,902.12	5,595.05	20.34	31.18	138.71	-1,233.09	778.70	643.00	613.30	29.70	21.648				
6,100.00	5,940.02	6,022.68	5,707.22	20.47	31.90	139.38	-1,270.70	801.82	679.20	649.08	30.12	22.548				
6,200.00	6,040.02	6,147.10	5,824.84	20.61	32.57	139.92	-1,305.26	823.06	711.48	680.91	30.57	23.273				
6,300.00	6,140.02	6,275.09	5,947.54	20.74	33.19	140.35	-1,336.24	842.11	739.63	708.59	31.04	23.832				
6,400.00	6,240.02	6,406.27	6,074.86	20.88	33.73	140.69	-1,363.12	858.62	763.47	731.96	31.51	24.231				
6,500.00	6,340.02	6,540.19	6,206.19	21.02	34.20	140.95	-1,385.40	872.32	782.85	750.87	31.98	24.482				
6,600.00	6,440.02	6,676.34	6,340.80	21.16	34.59	141.14	-1,402.67	882.94	797.62	765.18	32.44	24.588				
6,700.00	6,540.02	6,814.14	6,477.88	21.30	34.89	141.27	-1,414.59	890.26	807.69	774.80	32.89	24.558				
6,800.00	6,640.02	6,952.97	6,616.50	21.44	35.09	141.34	-1,420.90	894.14	812.99	779.67	33.32	24.400				
6,900.00	6,740.02	7,076.50	6,740.02	21.58	35.21	141.35	-1,421.93	894.78	813.86	780.15	33.71	24.142				

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



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor									
7,000.00	6,840.02	7,176.50	6,840.02	21.73	35.29	141.35	-1,421.93	894.78	813.86	779.79	34.06	23.892									
7,100.00	6,940.02	7,276.50	6,940.02	21.88	35.38	141.35	-1,421.93	894.78	813.86	779.44	34.42	23.646									
7,200.00	7,040.02	7,376.50	7,040.02	22.02	35.46	141.35	-1,421.93	894.78	813.86	779.08	34.78	23.404									
7,300.00	7,140.02	7,476.50	7,140.02	22.17	35.55	141.35	-1,421.93	894.78	813.86	778.72	35.13	23.165									
7,400.00	7,240.02	7,576.50	7,240.02	22.32	35.64	141.35	-1,421.93	894.78	813.86	778.36	35.49	22.929									
7,500.00	7,340.02	7,676.50	7,340.02	22.47	35.72	141.35	-1,421.93	894.78	813.86	778.00	35.86	22.697									
7,600.00	7,440.02	7,776.50	7,440.02	22.63	35.81	141.35	-1,421.93	894.78	813.86	777.64	36.22	22.469									
7,700.00	7,540.02	7,876.50	7,540.02	22.78	35.91	141.35	-1,421.93	894.78	813.86	777.27	36.59	22.244									
7,800.00	7,640.02	7,976.50	7,640.02	22.94	36.00	141.35	-1,421.93	894.78	813.86	776.90	36.96	22.022									
7,900.00	7,740.02	8,076.50	7,740.02	23.09	36.09	141.35	-1,421.93	894.78	813.86	776.53	37.33	21.804									
8,000.00	7,840.02	8,176.50	7,840.02	23.25	36.19	141.35	-1,421.93	894.78	813.86	776.16	37.70	21.589									
8,100.00	7,940.02	8,276.50	7,940.02	23.41	36.28	141.35	-1,421.93	894.78	813.86	775.79	38.07	21.378									
8,159.98	8,000.00	8,336.48	8,000.00	23.51	36.34	141.35	-1,421.93	894.78	813.86	775.56	38.29	21.252									



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	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	-94.68	-3.28	-40.07	40.20							
100.00	100.00	100.00	100.00	0.09	0.09	-94.68	-3.28	-40.07	40.20	40.02	0.18	218.138				
200.00	200.00	200.00	200.00	0.32	0.32	-94.68	-3.28	-40.07	40.20	39.57	0.63	63.430				
300.00	300.00	300.00	300.00	0.54	0.54	-94.68	-3.28	-40.07	40.20	39.12	1.08	37.111				
400.00	400.00	400.00	400.00	0.77	0.77	-94.68	-3.28	-40.07	40.20	38.67	1.53	26.228				
500.00	500.00	500.00	500.00	0.99	0.99	-94.68	-3.28	-40.07	40.20	38.22	1.98	20.280				
600.00	600.00	600.00	600.00	1.22	1.22	-94.68	-3.28	-40.07	40.20	37.77	2.43	16.532				
700.00	700.00	700.00	700.00	1.44	1.44	-94.68	-3.28	-40.07	40.20	37.32	2.88	13.953				
800.00	800.00	800.00	800.00	1.67	1.67	-94.68	-3.28	-40.07	40.20	36.87	3.33	12.070				
900.00	900.00	900.00	900.00	1.89	1.89	-94.68	-3.28	-40.07	40.20	36.42	3.78	10.635				
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-94.68	-3.28	-40.07	40.20	35.97	4.23	9.504				
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-94.68	-3.28	-40.07	40.20	35.53	4.68	8.591				
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-94.68	-3.28	-40.07	40.20	35.08	5.13	7.838				
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-94.68	-3.28	-40.07	40.20	34.63	5.58	7.207				
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	-94.68	-3.28	-40.07	40.20	34.18	6.03	6.669				
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	-94.68	-3.28	-40.07	40.20	33.73	6.48	6.207				
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	-94.68	-3.28	-40.07	40.20	33.28	6.93	5.804				
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	-94.68	-3.28	-40.07	40.20	32.83	7.38	5.450				
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	-94.68	-3.28	-40.07	40.20	32.38	7.83	5.137				
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	-94.68	-3.28	-40.07	40.20	31.93	8.28	4.858				
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	-94.68	-3.28	-40.07	40.20	31.48	8.73	4.608				
2,100.00	2,100.00	2,100.00	2,100.00	4.59	4.59	-94.68	-3.28	-40.07	40.20	31.03	9.17	4.382 CC, ES, SF				
2,200.00	2,199.97	2,198.34	2,198.31	4.79	4.79	112.92	-4.31	-41.91	42.97	33.40	9.57	4.490				
2,300.00	2,299.75	2,296.17	2,295.93	4.96	4.97	116.24	-7.39	-47.39	51.38	41.46	9.92	5.179				
2,400.00	2,399.14	2,392.98	2,392.18	5.15	5.17	119.80	-12.43	-56.38	65.60	55.32	10.28	6.383				
2,500.00	2,497.97	2,488.29	2,486.43	5.35	5.37	122.68	-19.34	-68.68	85.66	75.01	10.65	8.046				
2,600.00	2,596.04	2,581.66	2,578.13	5.58	5.60	124.73	-27.96	-84.04	111.44	100.40	11.03	10.100				
2,700.00	2,693.17	2,672.71	2,666.77	5.86	5.86	126.08	-38.13	-102.14	142.74	131.29	11.45	12.464				
2,800.00	2,789.17	2,761.08	2,751.95	6.19	6.15	126.90	-49.63	-122.63	179.34	167.43	11.91	15.057				
2,900.00	2,883.85	2,846.50	2,833.37	6.58	6.48	127.32	-62.27	-145.15	221.01	208.59	12.42	17.793				
3,000.00	2,977.05	2,928.72	2,910.78	7.06	6.84	127.44	-75.83	-169.30	267.48	254.49	12.99	20.590				
3,100.00	3,068.57	3,007.59	2,984.05	7.62	7.24	127.30	-90.11	-194.73	318.50	304.88	13.63	23.374				
3,124.34	3,090.57	3,026.26	3,001.25	7.77	7.35	127.24	-93.67	-201.07	331.58	317.79	13.79	24.036				
3,200.00	3,158.80	3,083.39	3,053.49	8.26	7.68	127.81	-104.99	-221.23	373.18	358.81	14.37	25.966				
3,300.00	3,248.98	3,162.78	3,125.34	8.94	8.19	128.22	-121.52	-250.68	429.45	414.24	15.21	28.243				
3,400.00	3,339.16	3,245.32	3,199.97	9.66	8.75	128.53	-138.78	-281.43	485.87	469.77	16.09	30.191				
3,500.00	3,429.33	3,327.86	3,274.59	10.40	9.34	128.78	-156.05	-312.19	542.29	525.27	17.02	31.860				
3,600.00	3,519.51	3,410.40	3,349.22	11.16	9.94	128.98	-173.32	-342.95	598.72	580.74	17.98	33.294				
3,700.00	3,609.69	3,492.94	3,423.84	11.94	10.57	129.15	-190.58	-373.70	655.15	636.18	18.98	34.526				
3,800.00	3,699.86	3,575.48	3,498.47	12.74	11.21	129.29	-207.85	-404.46	711.59	691.60	19.99	35.590				
3,900.00	3,790.04	3,658.02	3,573.09	13.55	11.86	129.40	-225.12	-435.21	768.03	747.00	21.03	36.514				
3,979.56	3,861.78	3,723.69	3,632.46	14.19	12.38	129.49	-238.86	-459.68	812.93	791.06	21.87	37.165				
4,000.00	3,880.25	3,740.59	3,647.74	14.34	12.52	129.72	-242.39	-465.98	824.43	802.34	22.10	37.312				
4,100.00	3,971.46	3,824.01	3,723.16	14.98	13.19	130.67	-259.84	-497.06	879.57	856.43	23.14	38.018				
4,200.00	4,064.04	3,908.60	3,799.64	15.59	13.89	131.37	-277.54	-528.58	932.79	908.60	24.19	38.562				
4,300.00	4,157.88	3,994.25	3,877.08	16.16	14.60	131.87	-295.46	-560.50	984.08	958.83	25.25	38.980				
4,400.00	4,252.88	4,080.87	3,955.38	16.69	15.32	132.19	-313.58	-592.77	1,033.39	1,007.10	26.30	39.300				
4,500.00	4,348.90	4,168.34	4,034.46	17.19	16.06	132.35	-331.87	-625.37	1,080.74	1,053.42	27.33	39.546				
4,600.00	4,445.84	4,256.55	4,114.22	17.64	16.80	132.38	-350.33	-658.24	1,126.13	1,097.79	28.34	39.738				
4,700.00	4,543.58	4,345.41	4,194.56	18.04	17.56	132.29	-368.92	-691.35	1,169.58	1,140.26	29.32	39.891				
4,800.00	4,641.99	4,434.80	4,275.38	18.40	18.32	132.10	-387.62	-724.66	1,211.11	1,180.85	30.26	40.019				
4,900.00	4,740.96	4,524.62	4,356.58	18.70	19.09	131.80	-406.41	-758.12	1,250.77	1,219.60	31.17	40.133				

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 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,840.37	4,614.75	4,438.06	18.96	19.87	131.41	-425.26	-791.71	1,288.60	1,256.58	32.02	40.244		
5,100.00	4,940.10	4,705.08	4,519.73	19.18	20.65	130.93	-444.16	-825.37	1,324.68	1,291.85	32.82	40.360		
5,200.00	5,040.02	4,795.51	4,601.49	19.34	21.44	130.38	-463.08	-859.06	1,359.05	1,325.48	33.57	40.487		
5,259.98	5,100.00	4,849.75	4,650.53	19.42	21.91	-76.15	-474.42	-879.27	1,378.89	1,344.90	33.98	40.575		
5,300.00	5,140.02	4,885.93	4,683.24	19.47	22.22	-76.62	-481.99	-892.75	1,391.98	1,357.74	34.24	40.657		
5,400.00	5,240.02	4,976.34	4,764.98	19.59	23.01	-77.73	-500.90	-926.44	1,425.05	1,390.19	34.86	40.875		
5,500.00	5,340.02	5,066.75	4,846.72	19.71	23.80	-78.80	-519.82	-960.13	1,458.63	1,423.16	35.47	41.119		
5,600.00	5,440.02	5,198.93	4,966.94	19.83	24.75	-80.25	-546.69	-1,008.00	1,491.87	1,455.71	36.16	41.262		
5,700.00	5,540.02	5,360.26	5,116.85	19.96	25.73	-81.72	-575.87	-1,059.97	1,521.66	1,484.82	36.85	41.298		
5,800.00	5,640.02	5,528.52	5,276.49	20.08	26.63	-82.95	-601.85	-1,106.25	1,547.35	1,509.85	37.49	41.269		
5,900.00	5,740.02	5,702.92	5,444.94	20.21	27.42	-83.95	-623.89	-1,145.50	1,568.53	1,530.43	38.10	41.174		
6,000.00	5,840.02	5,882.44	5,620.88	20.34	28.07	-84.70	-641.29	-1,176.50	1,584.87	1,546.23	38.64	41.017		
6,100.00	5,940.02	6,065.86	5,802.58	20.47	28.57	-85.21	-653.47	-1,198.19	1,596.11	1,556.98	39.13	40.790		
6,200.00	6,040.02	6,251.76	5,987.97	20.61	28.91	-85.47	-659.97	-1,209.77	1,602.04	1,562.48	39.56	40.494		
6,300.00	6,140.02	6,403.84	6,140.02	20.74	29.08	-85.52	-661.04	-1,211.68	1,603.02	1,563.11	39.91	40.168		
6,400.00	6,240.02	6,503.84	6,240.02	20.88	29.17	-85.52	-661.04	-1,211.68	1,603.02	1,562.84	40.18	39.894		
6,500.00	6,340.02	6,603.84	6,340.02	21.02	29.27	-85.52	-661.04	-1,211.68	1,603.02	1,562.56	40.46	39.621		
6,600.00	6,440.02	6,703.84	6,440.02	21.16	29.37	-85.52	-661.04	-1,211.68	1,603.02	1,562.28	40.74	39.348		
6,700.00	6,540.02	6,803.84	6,540.02	21.30	29.47	-85.52	-661.04	-1,211.68	1,603.02	1,562.00	41.02	39.076		
6,800.00	6,640.02	6,903.84	6,640.02	21.44	29.57	-85.52	-661.04	-1,211.68	1,603.02	1,561.71	41.31	38.805		
6,900.00	6,740.02	7,003.84	6,740.02	21.58	29.68	-85.52	-661.04	-1,211.68	1,603.02	1,561.42	41.60	38.535		
7,000.00	6,840.02	7,103.84	6,840.02	21.73	29.78	-85.52	-661.04	-1,211.68	1,603.02	1,561.13	41.89	38.266		
7,100.00	6,940.02	7,203.84	6,940.02	21.88	29.89	-85.52	-661.04	-1,211.68	1,603.02	1,560.83	42.19	37.999		
7,200.00	7,040.02	7,303.84	7,040.02	22.02	30.00	-85.52	-661.04	-1,211.68	1,603.02	1,560.54	42.48	37.732		
7,300.00	7,140.02	7,403.84	7,140.02	22.17	30.10	-85.52	-661.04	-1,211.68	1,603.02	1,560.24	42.78	37.468		
7,400.00	7,240.02	7,503.84	7,240.02	22.32	30.21	-85.52	-661.04	-1,211.68	1,603.02	1,559.93	43.09	37.204		
7,500.00	7,340.02	7,603.84	7,340.02	22.47	30.33	-85.52	-661.04	-1,211.68	1,603.02	1,559.63	43.39	36.942		
7,600.00	7,440.02	7,703.84	7,440.02	22.63	30.44	-85.52	-661.04	-1,211.68	1,603.02	1,559.32	43.70	36.682		
7,700.00	7,540.02	7,803.84	7,540.02	22.78	30.55	-85.52	-661.04	-1,211.68	1,603.02	1,559.01	44.01	36.424		
7,800.00	7,640.02	7,903.84	7,640.02	22.94	30.67	-85.52	-661.04	-1,211.68	1,603.02	1,558.70	44.32	36.167		
7,900.00	7,740.02	8,003.84	7,740.02	23.09	30.78	-85.52	-661.04	-1,211.68	1,603.02	1,558.38	44.64	35.911		
8,000.00	7,840.02	8,103.84	7,840.02	23.25	30.90	-85.52	-661.04	-1,211.68	1,603.02	1,558.06	44.96	35.658		
8,100.00	7,940.02	8,203.84	7,940.02	23.41	31.02	-85.52	-661.04	-1,211.68	1,603.02	1,557.74	45.27	35.406		
8,159.98	8,000.00	8,263.82	8,000.00	23.51	31.09	-85.52	-661.04	-1,211.68	1,603.02	1,557.55	45.47	35.256		



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	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	-95.16	-1.82	-20.18	20.26							
100.00	100.00	100.00	100.00	0.09	0.09	-95.16	-1.82	-20.18	20.26	20.07	0.18	109.911				
200.00	200.00	200.00	200.00	0.32	0.32	-95.16	-1.82	-20.18	20.26	19.62	0.63	31.960				
300.00	300.00	300.00	300.00	0.54	0.54	-95.16	-1.82	-20.18	20.26	19.17	1.08	18.699				
400.00	400.00	400.00	400.00	0.77	0.77	-95.16	-1.82	-20.18	20.26	18.72	1.53	13.215				
500.00	500.00	500.00	500.00	0.99	0.99	-95.16	-1.82	-20.18	20.26	18.28	1.98	10.219				
600.00	600.00	600.00	600.00	1.22	1.22	-95.16	-1.82	-20.18	20.26	17.83	2.43	8.330				
700.00	700.00	700.00	700.00	1.44	1.44	-95.16	-1.82	-20.18	20.26	17.38	2.88	7.030				
800.00	800.00	800.00	800.00	1.67	1.67	-95.16	-1.82	-20.18	20.26	16.93	3.33	6.081				
900.00	900.00	900.00	900.00	1.89	1.89	-95.16	-1.82	-20.18	20.26	16.48	3.78	5.358				
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-95.16	-1.82	-20.18	20.26	16.03	4.23	4.789				
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-95.16	-1.82	-20.18	20.26	15.58	4.68	4.329				
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-95.16	-1.82	-20.18	20.26	15.13	5.13	3.949				
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-95.16	-1.82	-20.18	20.26	14.68	5.58	3.631				
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	-95.16	-1.82	-20.18	20.26	14.23	6.03	3.360				
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	-95.16	-1.82	-20.18	20.26	13.78	6.48	3.127				
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	-95.16	-1.82	-20.18	20.26	13.33	6.93	2.924				
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	-95.16	-1.82	-20.18	20.26	12.88	7.38	2.746				
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	-95.16	-1.82	-20.18	20.26	12.43	7.83	2.588				
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	-95.16	-1.82	-20.18	20.26	11.98	8.28	2.448 CC, ES				
2,000.00	2,000.00	1,999.67	1,999.64	4.36	4.33	-100.79	-3.94	-20.65	21.02	12.33	8.69	2.418 SF				
2,100.00	2,100.00	2,098.96	2,098.71	4.59	4.51	-114.91	-10.24	-22.06	24.35	15.27	9.09	2.680				
2,200.00	2,199.97	2,197.70	2,196.86	4.79	4.69	79.51	-20.66	-24.39	31.66	22.19	9.47	3.344				
2,300.00	2,299.75	2,295.87	2,293.90	4.96	4.88	74.62	-35.10	-27.61	42.05	32.22	9.82	4.280				
2,400.00	2,399.14	2,393.37	2,389.57	5.15	5.10	73.41	-53.45	-31.71	54.83	44.62	10.20	5.373				
2,500.00	2,497.97	2,490.10	2,483.60	5.35	5.36	73.94	-75.55	-36.65	69.81	59.19	10.62	6.574				
2,600.00	2,596.04	2,585.96	2,575.77	5.58	5.67	75.22	-101.26	-42.39	87.01	75.92	11.09	7.845				
2,700.00	2,693.17	2,680.88	2,665.86	5.86	6.04	76.77	-130.40	-48.91	106.44	94.81	11.64	9.147				
2,800.00	2,789.17	2,774.77	2,753.69	6.19	6.47	78.33	-162.78	-56.14	128.14	115.86	12.28	10.436				
2,900.00	2,883.85	2,867.58	2,839.09	6.58	6.96	79.81	-198.21	-64.06	152.10	139.06	13.03	11.668				
3,000.00	2,977.05	2,961.20	2,923.82	7.06	7.51	81.26	-237.06	-72.74	178.09	164.16	13.92	12.790				
3,100.00	3,068.57	3,057.31	3,010.52	7.62	8.13	83.30	-277.56	-81.79	204.25	189.27	14.98	13.637				
3,124.34	3,090.57	3,080.66	3,031.58	7.77	8.29	83.88	-287.40	-83.99	210.60	195.35	15.26	13.805				
3,200.00	3,158.80	3,153.21	3,097.02	8.26	8.78	86.02	-317.97	-90.82	230.53	214.35	16.18	14.250				
3,300.00	3,248.98	3,249.10	3,183.51	8.94	9.46	88.35	-358.37	-99.84	257.24	239.79	17.45	14.741				
3,400.00	3,339.16	3,344.99	3,270.01	9.66	10.15	90.24	-398.77	-108.87	284.27	265.50	18.78	15.138				
3,500.00	3,429.33	3,440.88	3,356.50	10.40	10.86	91.80	-439.17	-117.90	311.55	291.40	20.15	15.463				
3,600.00	3,519.51	3,536.77	3,442.99	11.16	11.58	93.11	-479.57	-126.93	339.00	317.45	21.55	15.729				
3,700.00	3,609.69	3,632.66	3,529.48	11.94	12.31	94.23	-519.97	-135.95	366.60	343.62	22.98	15.951				
3,800.00	3,699.86	3,728.55	3,615.98	12.74	13.05	95.19	-560.38	-144.98	394.31	369.87	24.44	16.136				
3,900.00	3,790.04	3,824.44	3,702.47	13.55	13.80	96.02	-600.78	-154.01	422.10	396.19	25.91	16.292				
3,979.56	3,861.78	3,900.73	3,771.28	14.19	14.40	96.61	-632.92	-161.19	444.27	417.18	27.09	16.400				
4,000.00	3,880.25	3,920.34	3,788.97	14.34	14.55	96.86	-641.18	-163.04	449.96	422.58	27.38	16.431				
4,100.00	3,971.46	4,016.40	3,875.62	14.98	15.32	97.77	-681.66	-172.08	477.58	448.85	28.73	16.625				
4,200.00	4,064.04	4,112.63	3,962.42	15.59	16.08	98.23	-722.20	-181.14	504.75	474.72	30.03	16.808				
4,300.00	4,157.88	4,208.90	4,049.26	16.16	16.85	98.30	-762.77	-190.20	531.46	500.17	31.29	16.984				
4,400.00	4,252.88	4,305.10	4,136.03	16.69	17.63	98.04	-803.30	-199.26	557.76	525.26	32.50	17.164				
4,500.00	4,348.90	4,401.11	4,222.62	17.19	18.40	97.50	-843.75	-208.30	583.72	550.08	33.64	17.353				
4,600.00	4,445.84	4,496.80	4,308.94	17.64	19.18	96.72	-884.07	-217.31	609.49	574.79	34.71	17.562				
4,700.00	4,543.58	4,592.07	4,394.88	18.04	19.95	95.73	-924.21	-226.28	635.22	599.53	35.69	17.797				
4,800.00	4,641.99	4,686.81	4,480.33	18.40	20.73	94.58	-964.12	-235.20	661.10	624.51	36.59	18.068				
4,900.00	4,740.96	4,780.88	4,565.18	18.70	21.50	93.27	-1,003.76	-244.05	687.33	649.94	37.39	18.381				

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 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference													Warning		
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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,840.37	4,874.18	4,649.34	18.96	22.26	91.86	-1,043.07	-252.84	714.12	676.03	38.10	18.744			
5,100.00	4,940.10	4,966.60	4,732.70	19.18	23.02	90.35	-1,082.01	-261.54	741.70	703.00	38.70	19.164			
5,200.00	5,040.02	5,058.02	4,815.17	19.34	23.77	88.78	-1,120.53	-270.14	770.28	731.07	39.21	19.647			
5,259.98	5,100.00	5,112.34	4,864.16	19.42	24.21	-118.35	-1,143.42	-275.26	787.99	748.54	39.46	19.971			
5,300.00	5,140.02	5,148.43	4,896.72	19.47	24.51	-119.24	-1,158.62	-278.65	800.07	760.50	39.56	20.223			
5,400.00	5,240.02	5,238.63	4,978.08	19.59	25.25	-121.34	-1,196.63	-287.15	831.04	791.23	39.82	20.872			
5,500.00	5,340.02	5,328.83	5,059.44	19.71	26.00	-123.31	-1,234.63	-295.64	863.07	823.02	40.05	21.550			
5,600.00	5,440.02	5,419.03	5,140.80	19.83	26.74	-125.15	-1,272.64	-304.13	896.03	855.76	40.27	22.251			
5,700.00	5,540.02	5,509.23	5,222.16	19.96	27.49	-126.87	-1,310.64	-312.62	929.82	889.34	40.48	22.970			
5,800.00	5,640.02	5,599.43	5,303.52	20.08	28.24	-128.47	-1,348.65	-321.11	964.37	923.68	40.69	23.703			
5,900.00	5,740.02	5,689.63	5,384.88	20.21	28.98	-129.97	-1,386.65	-329.61	999.58	958.69	40.89	24.445			
6,000.00	5,840.02	5,779.84	5,466.24	20.34	29.73	-131.38	-1,424.66	-338.10	1,035.40	994.30	41.10	25.193			
6,100.00	5,940.02	5,870.04	5,547.61	20.47	30.48	-132.70	-1,462.66	-346.59	1,071.76	1,030.46	41.31	25.945			
6,200.00	6,040.02	5,960.24	5,628.97	20.61	31.23	-133.93	-1,500.67	-355.08	1,108.61	1,067.09	41.52	26.698			
6,300.00	6,140.02	6,050.44	5,710.33	20.74	31.98	-135.09	-1,538.67	-363.57	1,145.91	1,104.16	41.75	27.450			
6,400.00	6,240.02	6,140.64	5,791.69	20.88	32.72	-136.18	-1,576.68	-372.07	1,183.60	1,141.62	41.97	28.199			
6,500.00	6,340.02	6,230.84	5,873.05	21.02	33.47	-137.20	-1,614.68	-380.56	1,221.65	1,179.44	42.21	28.943			
6,600.00	6,440.02	6,321.04	5,954.41	21.16	34.22	-138.17	-1,652.69	-389.05	1,260.03	1,217.58	42.45	29.681			
6,700.00	6,540.02	6,466.52	6,086.98	21.30	35.17	-139.55	-1,711.13	-402.11	1,297.00	1,254.31	42.69	30.380			
6,800.00	6,640.02	6,625.39	6,235.01	21.44	36.02	-140.76	-1,767.38	-414.68	1,329.73	1,286.78	42.95	30.958			
6,900.00	6,740.02	6,790.82	6,392.29	21.58	36.80	-141.77	-1,817.34	-425.84	1,357.80	1,314.53	43.26	31.386			
7,000.00	6,840.02	6,962.05	6,557.92	21.73	37.49	-142.56	-1,859.64	-435.29	1,380.84	1,337.24	43.61	31.667			
7,100.00	6,940.02	7,138.11	6,730.61	21.88	38.07	-143.16	-1,892.98	-442.74	1,398.56	1,354.59	43.98	31.804			
7,200.00	7,040.02	7,317.84	6,908.72	22.02	38.53	-143.56	-1,916.28	-447.95	1,410.72	1,366.36	44.36	31.802			
7,300.00	7,140.02	7,499.91	7,090.30	22.17	38.83	-143.76	-1,928.72	-450.73	1,417.13	1,372.39	44.75	31.670			
7,400.00	7,240.02	7,649.65	7,240.02	22.32	38.98	-143.80	-1,930.77	-451.18	1,418.19	1,373.09	45.10	31.448			
7,500.00	7,340.02	7,749.65	7,340.02	22.47	39.06	-143.80	-1,930.77	-451.18	1,418.19	1,372.81	45.38	31.251			
7,600.00	7,440.02	7,849.65	7,440.02	22.63	39.14	-143.80	-1,930.77	-451.18	1,418.19	1,372.52	45.67	31.056			
7,700.00	7,540.02	7,949.65	7,540.02	22.78	39.21	-143.80	-1,930.77	-451.18	1,418.19	1,372.23	45.95	30.861			
7,800.00	7,640.02	8,049.65	7,640.02	22.94	39.29	-143.80	-1,930.77	-451.18	1,418.19	1,371.94	46.24	30.668			
7,900.00	7,740.02	8,149.65	7,740.02	23.09	39.37	-143.80	-1,930.77	-451.18	1,418.19	1,371.65	46.54	30.475			
8,000.00	7,840.02	8,249.65	7,840.02	23.25	39.45	-143.80	-1,930.77	-451.18	1,418.19	1,371.35	46.83	30.283			
8,100.00	7,940.02	8,349.65	7,940.02	23.41	39.53	-143.80	-1,930.77	-451.18	1,418.19	1,371.06	47.13	30.091			
8,159.98	8,000.00	8,409.63	8,000.00	23.51	39.58	-143.80	-1,930.77	-451.18	1,418.19	1,370.88	47.31	29.977			



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 8000-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)	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	71.59	54.27	163.09	171.88					
100.00	100.00	100.00	100.00	0.09	2.00	71.59	54.27	163.09	171.88	169.79	2.09	82.331		
200.00	200.00	200.00	200.00	0.32	3.99	71.59	54.27	163.09	171.88	167.57	4.31	39.898		
300.00	300.00	300.00	300.00	0.54	5.99	71.59	54.27	163.09	171.88	165.35	6.53	26.329		
400.00	400.00	400.00	400.00	0.77	7.98	71.59	54.27	163.09	171.88	163.13	8.75	19.647		
500.00	500.00	500.00	500.00	0.99	9.98	71.59	54.27	163.09	171.88	160.91	10.97	15.670		
600.00	600.00	600.00	600.00	1.22	11.97	71.59	54.27	163.09	171.88	158.69	13.19	13.032		
700.00	700.00	700.00	700.00	1.44	13.97	71.59	54.27	163.09	171.88	156.47	15.41	11.154		
800.00	800.00	800.00	800.00	1.67	15.96	71.59	54.27	163.09	171.88	154.25	17.63	9.749		
900.00	900.00	900.00	900.00	1.89	17.96	71.59	54.27	163.09	171.88	152.03	19.85	8.659		
1,000.00	1,000.00	1,000.00	1,000.00	2.12	19.96	71.59	54.27	163.09	171.88	149.81	22.07	7.788		
1,100.00	1,100.00	1,100.00	1,100.00	2.34	21.95	71.59	54.27	163.09	171.88	147.59	24.29	7.076		
1,200.00	1,200.00	1,200.00	1,200.00	2.56	23.95	71.59	54.27	163.09	171.88	145.37	26.51	6.483		
1,300.00	1,300.00	1,300.00	1,300.00	2.79	25.94	71.59	54.27	163.09	171.88	143.15	28.73	5.982		
1,400.00	1,400.00	1,400.00	1,400.00	3.01	27.94	71.59	54.27	163.09	171.88	140.93	30.95	5.553		
1,500.00	1,500.00	1,500.00	1,500.00	3.24	29.93	71.59	54.27	163.09	171.88	138.71	33.17	5.182		
1,600.00	1,600.00	1,600.00	1,600.00	3.46	31.93	71.59	54.27	163.09	171.88	136.49	35.39	4.856		
1,700.00	1,700.00	1,700.00	1,700.00	3.69	33.92	71.59	54.27	163.09	171.88	134.27	37.61	4.570		
1,800.00	1,800.00	1,800.00	1,800.00	3.91	35.92	71.59	54.27	163.09	171.88	132.05	39.83	4.315		
1,900.00	1,900.00	1,900.00	1,900.00	4.14	37.91	71.59	54.27	163.09	171.88	129.83	42.05	4.087		
2,000.00	2,000.00	2,000.00	2,000.00	4.36	39.91	71.59	54.27	163.09	171.88	127.61	44.27	3.882		
2,100.00	2,100.00	2,100.00	2,100.00	4.59	41.91	71.59	54.27	163.09	171.88	125.39	46.49	3.697		
2,200.00	2,199.97	2,199.97	2,199.97	4.79	43.90	-82.96	54.27	163.09	171.60	122.91	48.68	3.525		
2,300.00	2,299.75	2,299.75	2,299.75	4.96	45.89	-85.15	54.27	163.09	170.92	120.07	50.85	3.361		
2,400.00	2,399.14	2,399.14	2,399.14	5.15	47.87	-88.80	54.27	163.09	170.34	117.32	53.02	3.213		
2,426.52	2,425.41	2,425.41	2,425.41	5.20	48.40	-90.00	54.27	163.09	170.30	116.71	53.60	3.178 CC		
2,500.00	2,497.97	2,497.97	2,497.97	5.35	49.85	-93.84	54.27	163.09	170.70	115.51	55.19	3.093 ES		
2,600.00	2,596.04	2,596.04	2,596.04	5.58	51.80	-100.11	54.27	163.09	173.12	115.78	57.34	3.019		
2,700.00	2,693.17	2,693.17	2,693.17	5.86	53.74	-107.29	54.27	163.09	178.92	119.50	59.42	3.011 SF		
2,800.00	2,789.17	2,789.17	2,789.17	6.19	55.66	-114.89	54.27	163.09	189.39	128.06	61.33	3.088		
2,900.00	2,883.85	2,883.85	2,883.85	6.58	57.55	-122.40	54.27	163.09	205.49	142.52	62.97	3.263		
3,000.00	2,977.05	2,977.05	2,977.05	7.06	59.41	-129.37	54.27	163.09	227.76	163.46	64.30	3.542		
3,100.00	3,068.57	3,068.57	3,068.57	7.62	61.23	-135.54	54.27	163.09	256.28	190.96	65.32	3.924		
3,124.34	3,090.57	3,090.57	3,090.57	7.77	61.67	-136.91	54.27	163.09	264.14	198.63	65.52	4.032		
3,200.00	3,158.80	3,158.80	3,158.80	8.26	63.03	-141.17	54.27	163.09	289.91	223.35	66.56	4.355		
3,300.00	3,248.98	3,248.98	3,248.98	8.94	64.83	-145.79	54.27	163.09	325.88	257.84	68.03	4.790		
3,400.00	3,339.16	3,339.16	3,339.16	9.66	66.63	-149.53	54.27	163.09	363.43	293.84	69.59	5.222		
3,500.00	3,429.33	3,429.33	3,429.33	10.40	68.43	-152.60	54.27	163.09	402.12	330.90	71.22	5.646		
3,600.00	3,519.51	3,519.51	3,519.51	11.16	70.23	-155.13	54.27	163.09	441.66	368.74	72.92	6.057		
3,700.00	3,609.69	3,609.69	3,609.69	11.94	72.03	-157.27	54.27	163.09	481.82	407.17	74.65	6.454		
3,800.00	3,699.86	3,699.86	3,699.86	12.74	73.83	-159.08	54.27	163.09	522.48	446.05	76.43	6.836		
3,900.00	3,790.04	3,790.04	3,790.04	13.55	75.63	-160.63	54.27	163.09	563.52	485.28	78.23	7.203		
3,979.56	3,861.78	3,861.78	3,861.78	14.19	77.06	-161.72	54.27	163.09	596.39	516.70	79.69	7.484		
4,000.00	3,880.25	3,880.25	3,880.25	14.34	77.43	-162.03	54.27	163.09	604.79	524.52	80.28	7.534		
4,100.00	3,971.46	3,971.46	3,971.46	14.98	79.25	-163.39	54.27	163.09	644.23	561.05	83.18	7.745		
4,200.00	4,064.04	4,064.04	4,064.04	15.59	81.10	-164.51	54.27	163.09	680.74	594.62	86.12	7.905		
4,300.00	4,157.88	4,157.88	4,157.88	16.16	82.97	-165.43	54.27	163.09	714.22	625.16	89.06	8.019		
4,400.00	4,252.88	4,252.88	4,252.88	16.69	84.87	-166.18	54.27	163.09	744.59	652.60	91.99	8.094		
4,500.00	4,348.90	4,348.90	4,348.90	17.19	86.78	-166.81	54.27	163.09	771.77	676.90	94.88	8.135		
4,600.00	4,445.84	4,445.84	4,445.84	17.64	88.72	-167.32	54.27	163.09	795.72	698.00	97.71	8.143		
4,700.00	4,543.58	4,543.58	4,543.58	18.04	90.67	-167.73	54.27	163.09	816.37	715.89	100.48	8.125		
4,800.00	4,641.99	4,641.99	4,641.99	18.40	92.63	-168.06	54.27	163.09	833.70	730.53	103.17	8.081		

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



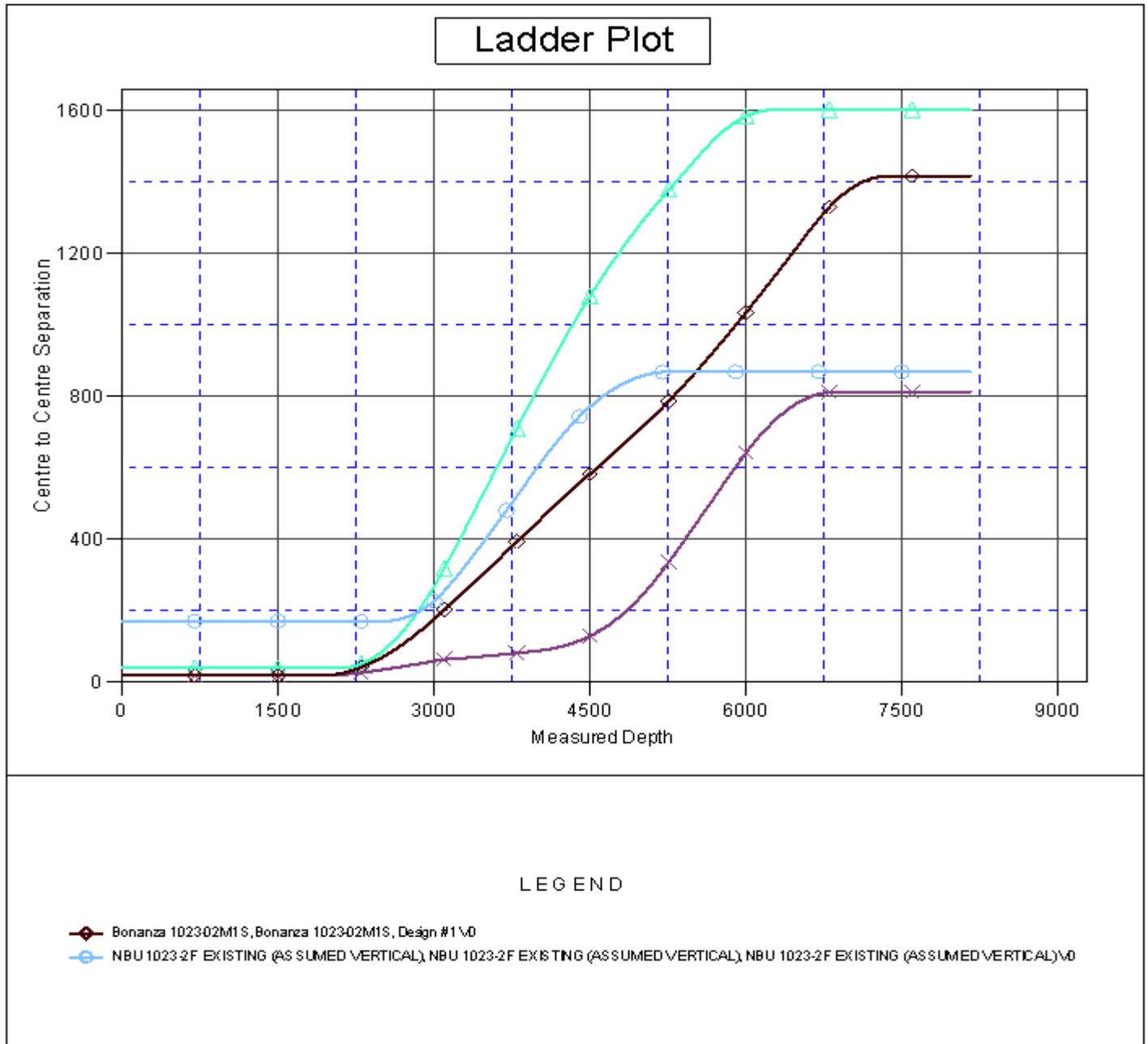
Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 8000-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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,740.96	4,740.96	4,740.96	18.70	94.61	-168.32	54.27	163.09	847.66	741.90	105.76	8.015		
5,000.00	4,840.37	4,840.37	4,840.37	18.96	96.59	-168.51	54.27	163.09	858.24	749.99	108.26	7.928		
5,100.00	4,940.10	4,940.10	4,940.10	19.18	98.58	-168.63	54.27	163.09	865.42	754.79	110.63	7.822		
5,200.00	5,040.02	5,040.02	5,040.02	19.34	100.57	-168.70	54.27	163.09	869.18	756.30	112.88	7.700		
5,259.98	5,100.00	5,100.00	5,100.00	19.42	101.77	-14.88	54.27	163.09	869.80	755.63	114.17	7.619		
5,300.00	5,140.02	5,140.02	5,140.02	19.47	102.57	-14.88	54.27	163.09	869.80	754.77	115.03	7.561		
5,400.00	5,240.02	5,240.02	5,240.02	19.59	104.56	-14.88	54.27	163.09	869.80	752.59	117.21	7.421		
5,500.00	5,340.02	5,340.02	5,340.02	19.71	106.56	-14.88	54.27	163.09	869.80	750.41	119.39	7.285		
5,600.00	5,440.02	5,440.02	5,440.02	19.83	108.56	-14.88	54.27	163.09	869.80	748.22	121.58	7.154		
5,700.00	5,540.02	5,540.02	5,540.02	19.96	110.55	-14.88	54.27	163.09	869.80	746.04	123.76	7.028		
5,800.00	5,640.02	5,640.02	5,640.02	20.08	112.55	-14.88	54.27	163.09	869.80	743.86	125.94	6.906		
5,900.00	5,740.02	5,740.02	5,740.02	20.21	114.54	-14.88	54.27	163.09	869.80	741.67	128.13	6.789		
6,000.00	5,840.02	5,840.02	5,840.02	20.34	116.54	-14.88	54.27	163.09	869.80	739.49	130.31	6.675		
6,100.00	5,940.02	5,940.02	5,940.02	20.47	118.53	-14.88	54.27	163.09	869.80	737.30	132.50	6.564		
6,200.00	6,040.02	6,040.02	6,040.02	20.61	120.53	-14.88	54.27	163.09	869.80	735.11	134.69	6.458		
6,300.00	6,140.02	6,140.02	6,140.02	20.74	122.52	-14.88	54.27	163.09	869.80	732.92	136.88	6.354		
6,400.00	6,240.02	6,240.02	6,240.02	20.88	124.52	-14.88	54.27	163.09	869.80	730.73	139.07	6.254		
6,500.00	6,340.02	6,340.02	6,340.02	21.02	126.52	-14.88	54.27	163.09	869.80	728.54	141.26	6.157		
6,600.00	6,440.02	6,440.02	6,440.02	21.16	128.51	-14.88	54.27	163.09	869.80	726.35	143.45	6.063		
6,700.00	6,540.02	6,540.02	6,540.02	21.30	130.51	-14.88	54.27	163.09	869.80	724.15	145.65	5.972		
6,800.00	6,640.02	6,640.02	6,640.02	21.44	132.50	-14.88	54.27	163.09	869.80	721.96	147.84	5.883		
6,900.00	6,740.02	6,740.02	6,740.02	21.58	134.50	-14.88	54.27	163.09	869.80	719.77	150.03	5.797		
7,000.00	6,840.02	6,840.02	6,840.02	21.73	136.49	-14.88	54.27	163.09	869.80	717.57	152.23	5.714		
7,100.00	6,940.02	6,940.02	6,940.02	21.88	138.49	-14.88	54.27	163.09	869.80	715.38	154.42	5.633		
7,200.00	7,040.02	7,040.02	7,040.02	22.02	140.48	-14.88	54.27	163.09	869.80	713.18	156.62	5.554		
7,300.00	7,140.02	7,140.02	7,140.02	22.17	142.48	-14.88	54.27	163.09	869.80	710.98	158.82	5.477		
7,400.00	7,240.02	7,240.02	7,240.02	22.32	144.47	-14.88	54.27	163.09	869.80	708.79	161.01	5.402		
7,500.00	7,340.02	7,340.02	7,340.02	22.47	146.47	-14.88	54.27	163.09	869.80	706.59	163.21	5.329		
7,600.00	7,440.02	7,440.02	7,440.02	22.63	148.47	-14.88	54.27	163.09	869.80	704.39	165.41	5.258		
7,700.00	7,540.02	7,540.02	7,540.02	22.78	150.46	-14.88	54.27	163.09	869.80	702.19	167.61	5.189		
7,800.00	7,640.02	7,640.02	7,640.02	22.94	152.46	-14.88	54.27	163.09	869.80	699.99	169.81	5.122		
7,900.00	7,740.02	7,740.02	7,740.02	23.09	154.45	-14.88	54.27	163.09	869.80	697.79	172.01	5.057		
8,000.00	7,840.02	7,840.02	7,840.02	23.25	156.45	-14.88	54.27	163.09	869.80	695.59	174.21	4.993		
8,100.00	7,940.02	7,940.02	7,940.02	23.41	158.44	-14.88	54.27	163.09	869.80	693.39	176.41	4.931		
8,159.98	8,000.00	8,000.00	8,000.00	23.51	159.64	-14.88	54.27	163.09	869.80	692.07	177.73	4.894		



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
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Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

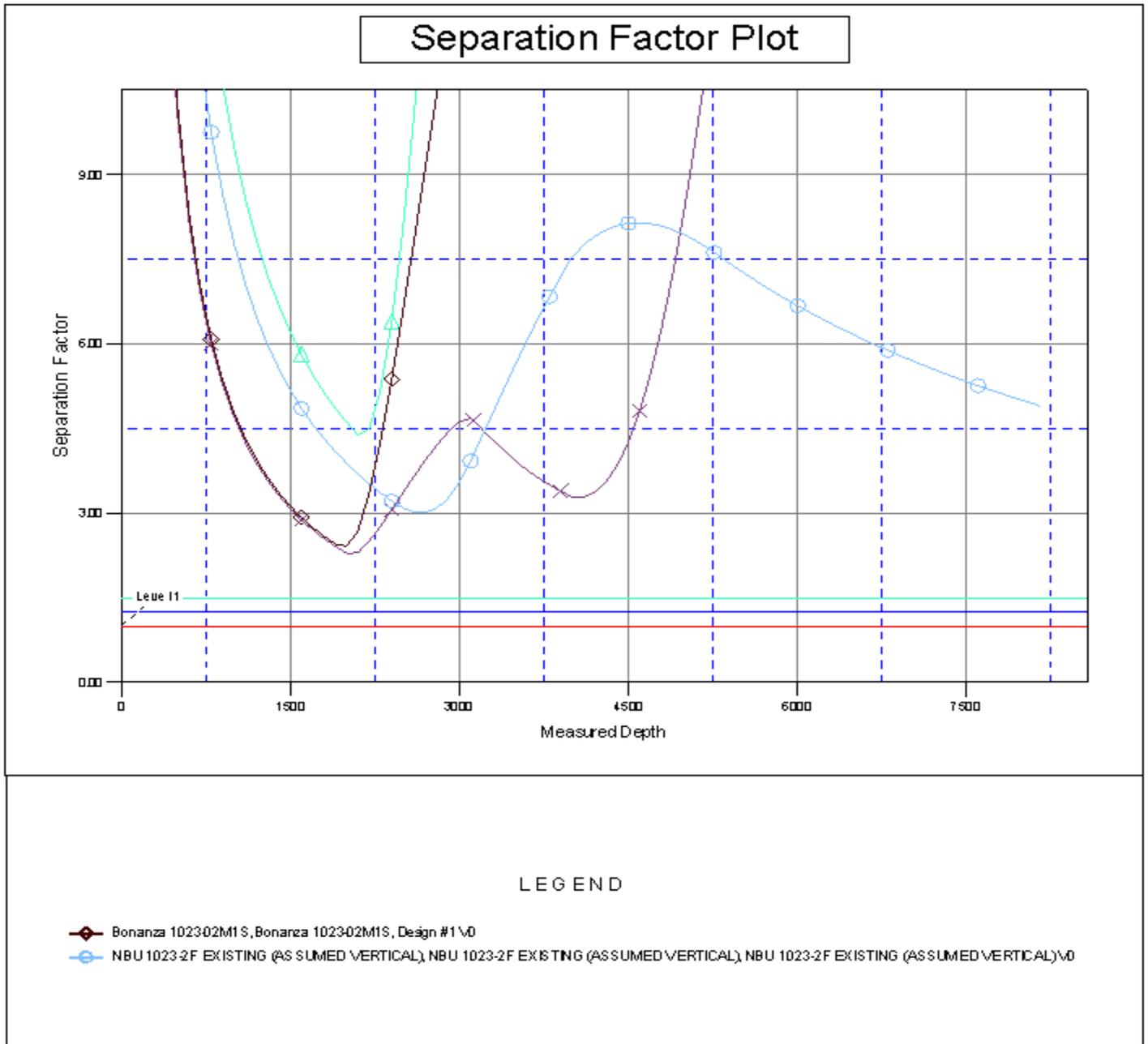
Reference Depths are relative to WELL @ 5456.00ft (Original Well Elev) Coordinates are relative to: Bonanza 1023-02K1S
 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 1.09°





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well Bonanza 1023-02K1S
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5456.00ft (Original Well Elev)
Reference Site:	Bonanza 1023-2F Pad	MD Reference:	WELL @ 5456.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	Bonanza 1023-02K1S	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	Bonanza 1023-02K1S	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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 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: 1.09°





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Bonanza 1023-2K1S

Pad: Bonanza 1023-2F

Surface: 2,115' FNL, 1,680' FWL (SE/4NW/4)

BHL: 2,395' FSL 2,070' FWL (NE/4SW/4)

Sec. 2 T10S R23E

Uintah, Utah

Mineral Lease: ML47062

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	1,085'	
Birds Nest	1,462'	Water
Mahogany	1,970'	Water
Wasatch	4,103'	Gas
Mesaverde	5,906'	Gas
MVU2	6,893'	Gas
MVL1	7,434'	Gas
TVD	8,000'	
TD	8,160'	

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 8,160' TD, approximately equals 4,830 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 2,975 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. Variations:

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.

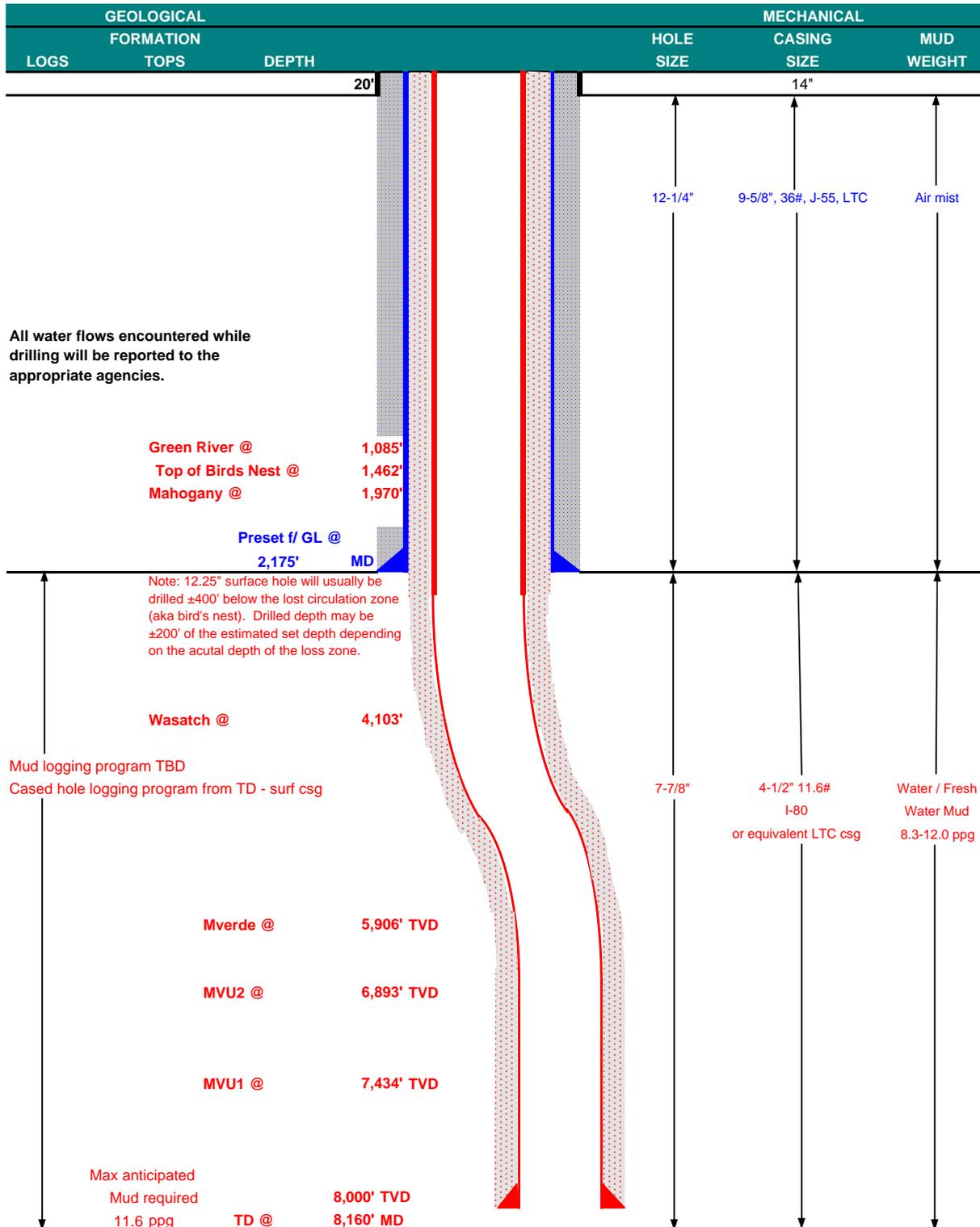
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 10, 2009			
WELL NAME	Bonanza 1023-2K1S		TD	8,000' TVD	8,160' MD		
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	5,438' GL KB 5,453'
SURFACE LOCATION	SE/4 NW/4	2,115' FNL	1,680' FWL	Sec 2	T 10S R 23E		
	Latitude:	39.979440	Longitude:	-109.296957	NAD 27		
BTM HOLE LOCATION	NE/4 SW/4	2,395' FSL	2,070' FWL	Sec 2	T 10S R 23E		
	Latitude:	39.977281	Longitude:	-109.295578	NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: SITLA (Minerals), UDOGM (Surface), Tri-County Health Dept.						





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,175	36.00	J-55	LTC	1.13	1.98	7.36
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8,160	11.60	I-80	LTC	2.54	1.32	2.43

- 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 2,975 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 4,830 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,675'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	400	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	3,600'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	340	40%	11.00	3.38
	TAIL	4,560'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,120	40%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

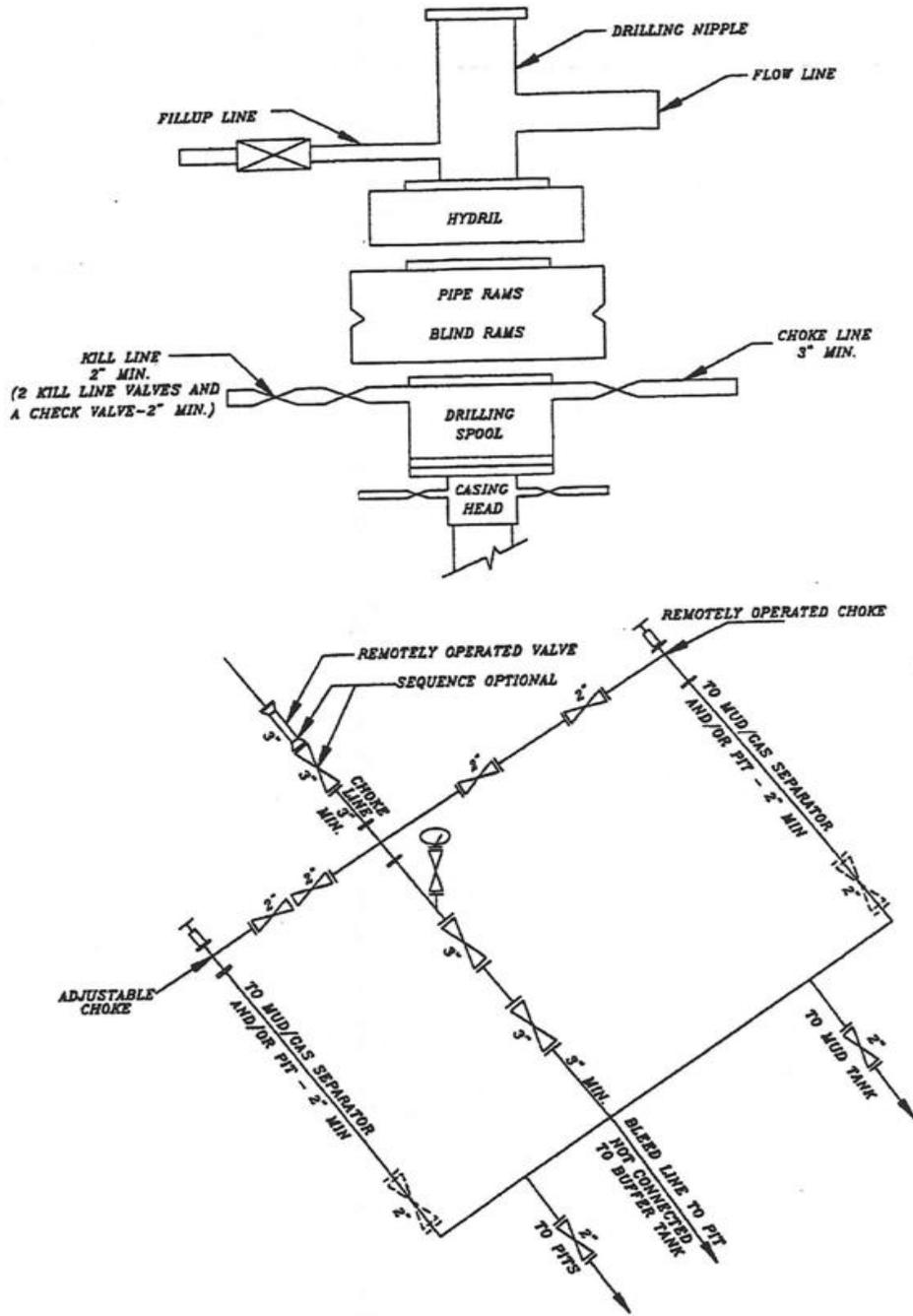
Surveys will be taken at 1,000' minimum intervals.

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

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

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

EXHIBIT A Bonanza 1023-2K1S



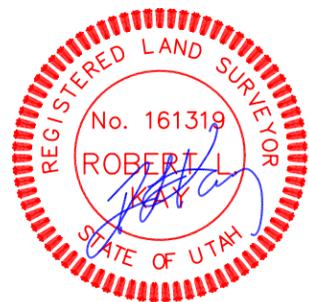
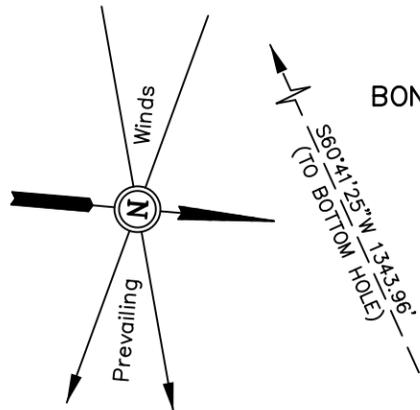
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

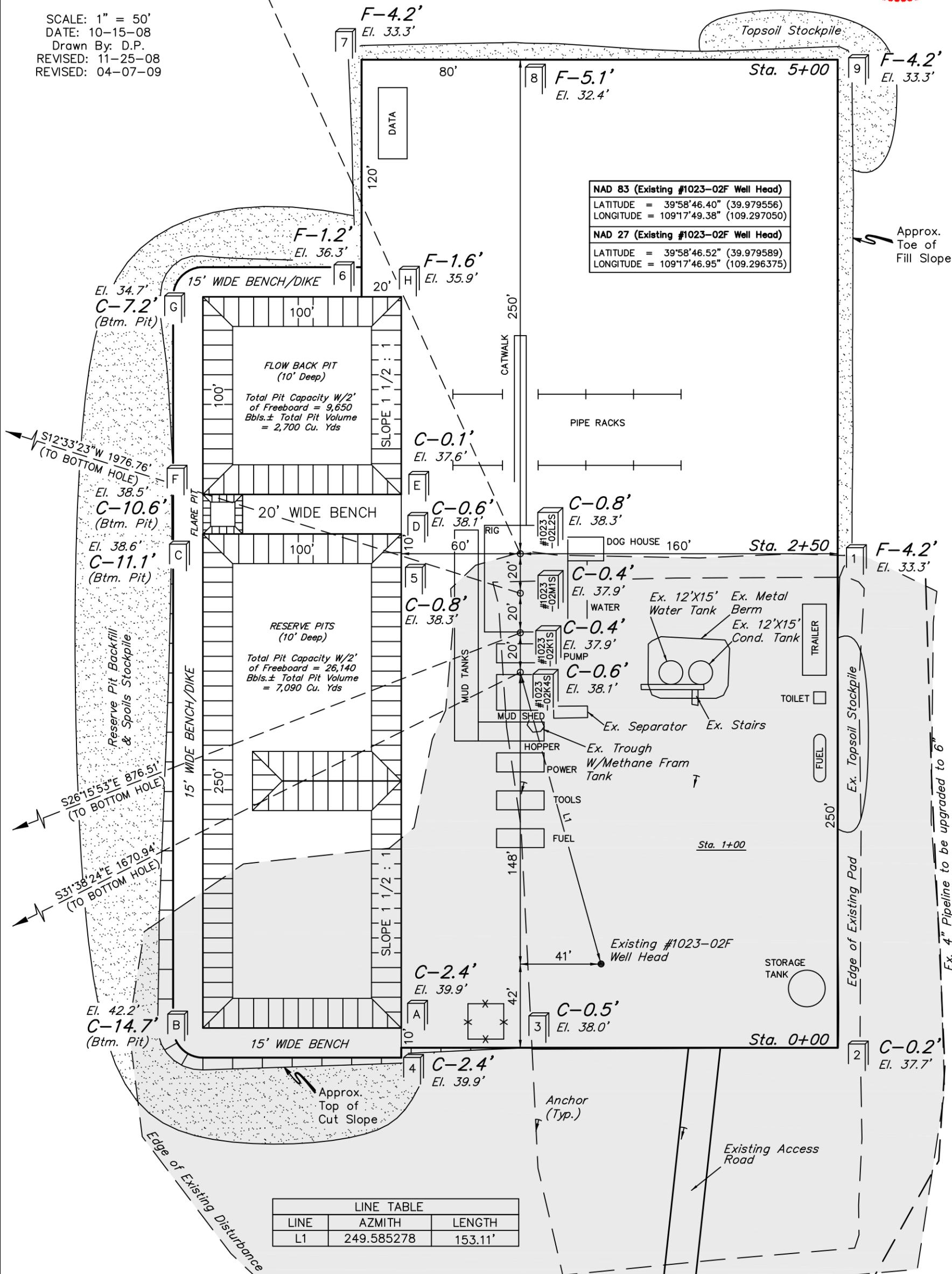
LOCATION LAYOUT FOR

BONANZA #1023-02K1S, #1023-02K4S, #1023-02L2S & #1023-02M1S
SECTION 2, T10S, R23E, S.L.B.&M.
SE 1/4 NW 1/4

FIGURE #1



SCALE: 1" = 50'
DATE: 10-15-08
Drawn By: D.P.
REVISED: 11-25-08
REVISED: 04-07-09



NAD 83 (Existing #1023-02F Well Head)	
LATITUDE	= 39°58'46.40" (39.979556)
LONGITUDE	= 109°17'49.38" (109.297050)
NAD 27 (Existing #1023-02F Well Head)	
LATITUDE	= 39°58'46.52" (39.979589)
LONGITUDE	= 109°17'46.95" (109.296375)

LINE TABLE		
LINE	AZMITH	LENGTH
L1	249.585278	153.11'

NOTES:

Elev. Ungraded Ground At #1023-02L2S Loc. Stake = 5438.3'
FINISHED GRADE ELEV. AT #1023-02L2S LOC. STAKE = 5437.5'

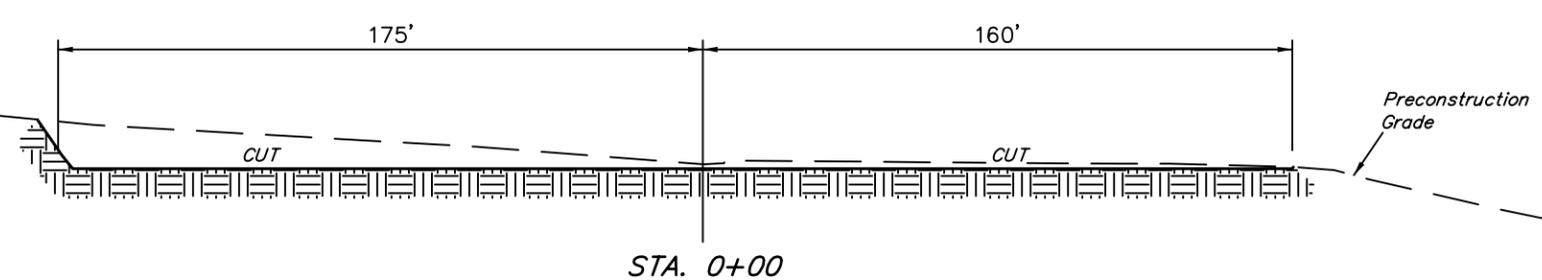
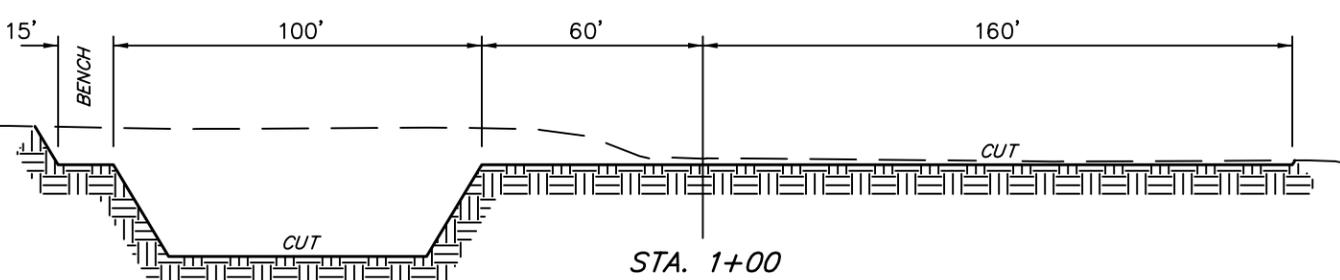
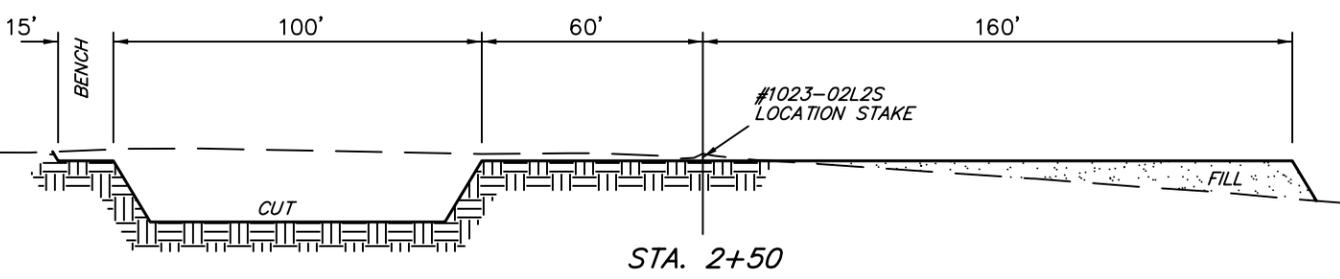
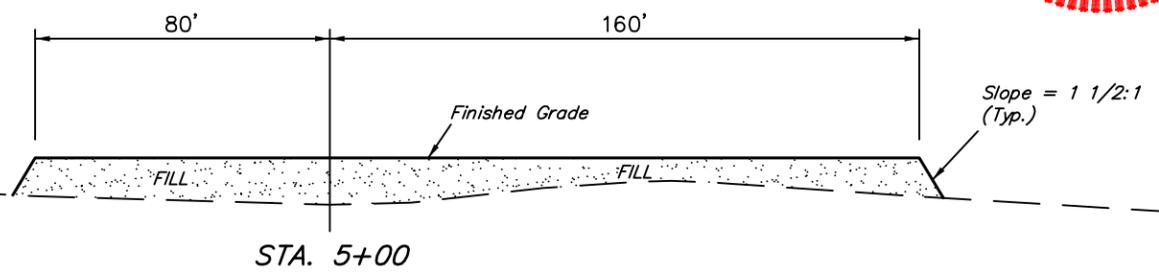
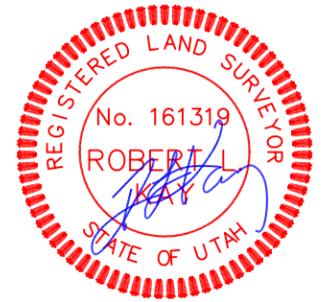
Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR

BONANZA #1023-02K1S, #1023-02K4S, #1023-02L2S & #1023-02M1S
SECTION 2, T10S, R23E, S.L.B.&M.
SE 1/4 NW 1/4

1" = 20'
X-Section Scale
1" = 50'
DATE: 10-15-08
Drawn By: D.P.
REVISED: 11-25-08



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

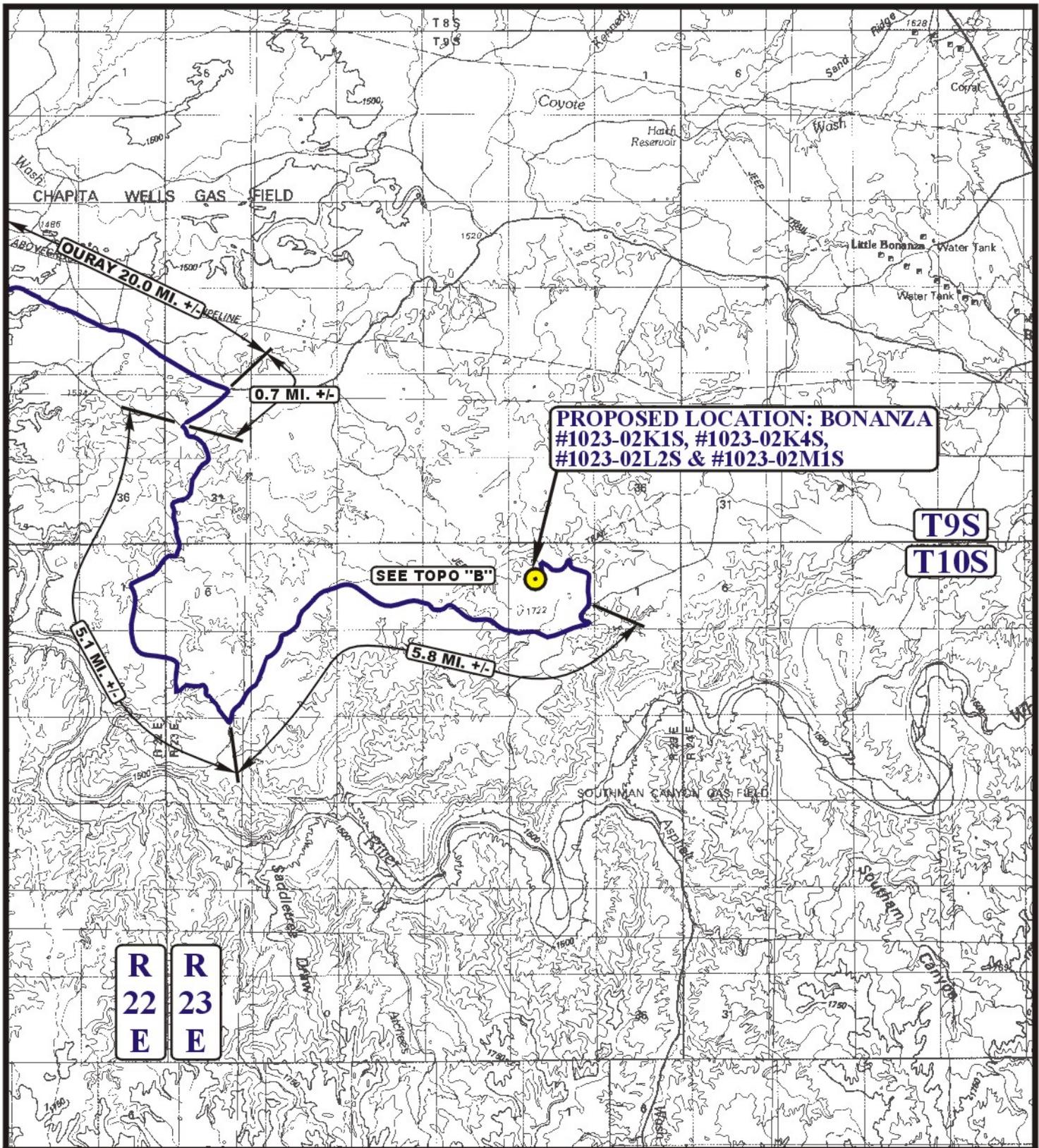
* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE ACREAGES
NEW CONSTRUCTION WELL SITE DISTURBANCE = ± 2.870 ACRES
EXISTING WELL SITE DISTURBANCE = ± 1.556 ACRES
TOTAL = ± 4.426 ACRES

APPROXIMATE YARDAGES

(6") Topsoil Stripping (New Construction Only)	= 1,860 Cu. Yds.
Remaining Location	= 13,300 Cu. Yds.
TOTAL CUT	= 15,160 CU.YDS.
FILL	= 8,400 CU.YDS.

EXCESS MATERIAL	= 6,760 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,760 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.



LEGEND:

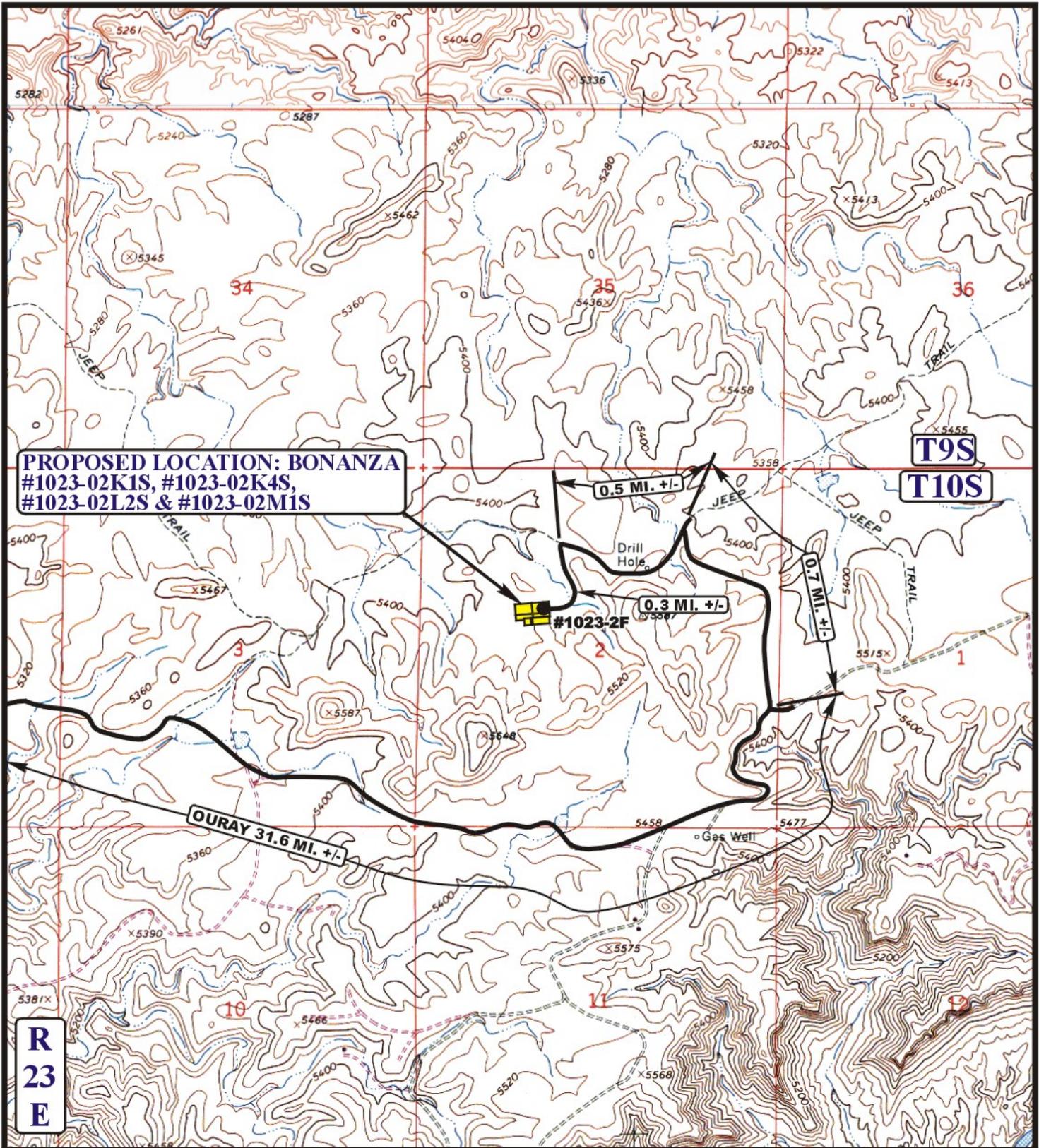
PROPOSED LOCATION



Kerr-McGee Oil & Gas Onshore LP
BONANAZA #1023-02K1S, #1023-02K4S,
#1023-02L2S & #1023-02M1S
SECTION 2, T10S, R23E, S.L.B.&M.
SE 1/4 NW 1/4

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

TOPOGRAPHIC **10 16 08**
MAP MONTH DAY YEAR
 SCALE: 1:100,000 DRAWN BY: D.P. REVISED: 00-00-00 **TOPO**



LEGEND:

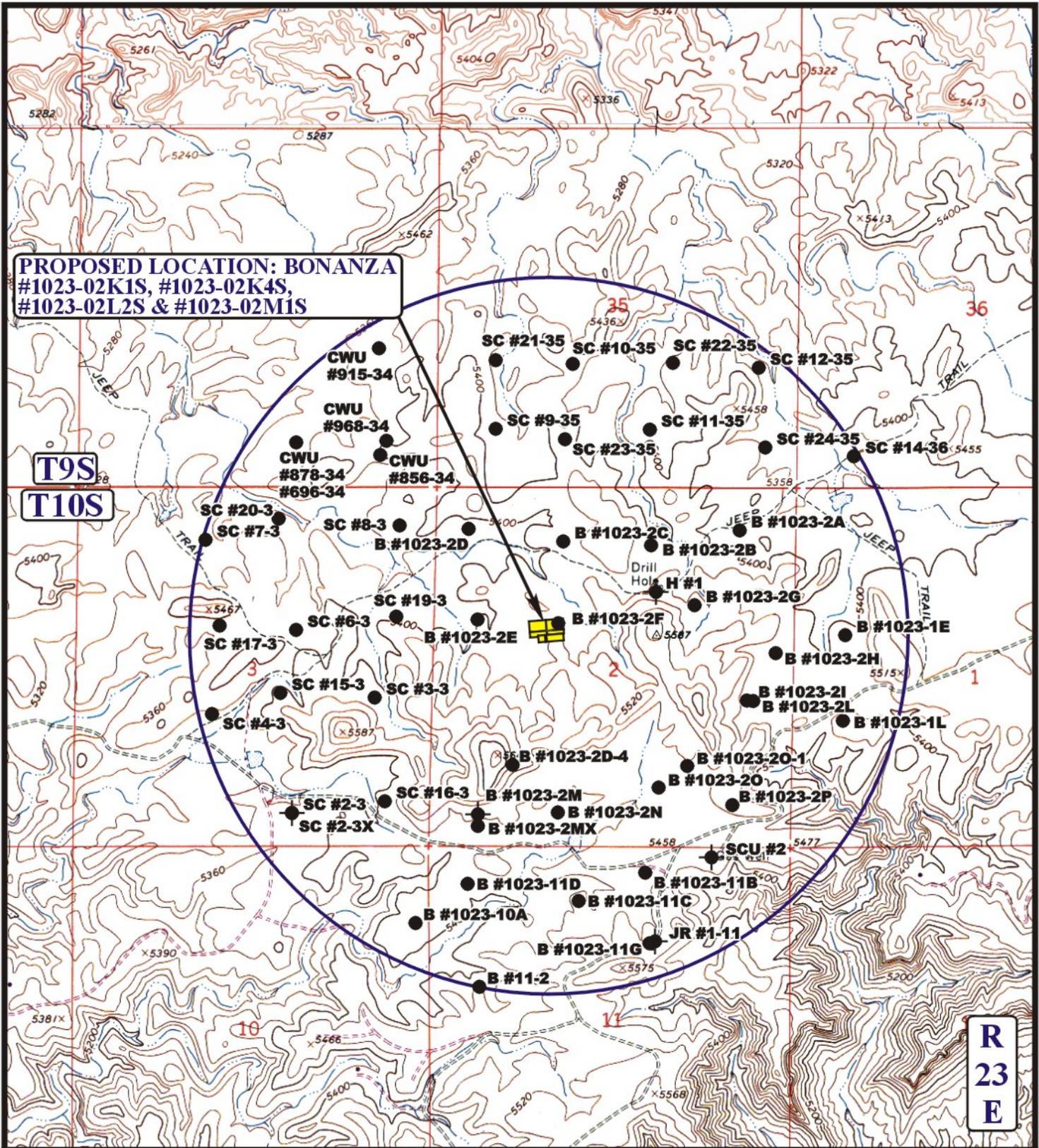
-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



Kerr-McGee Oil & Gas Onshore LP
BONANAZA #1023-02K1S, #1023-02K4S,
#1023-02L2S & #1023-02M1S
SECTION 2, T10S, R23E, S.L.B.&M.
SE 1/4 NW 1/4

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 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP **10 16 08**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: D.P. REVISED: 00-00-00 **B TOPO**



LEGEND:

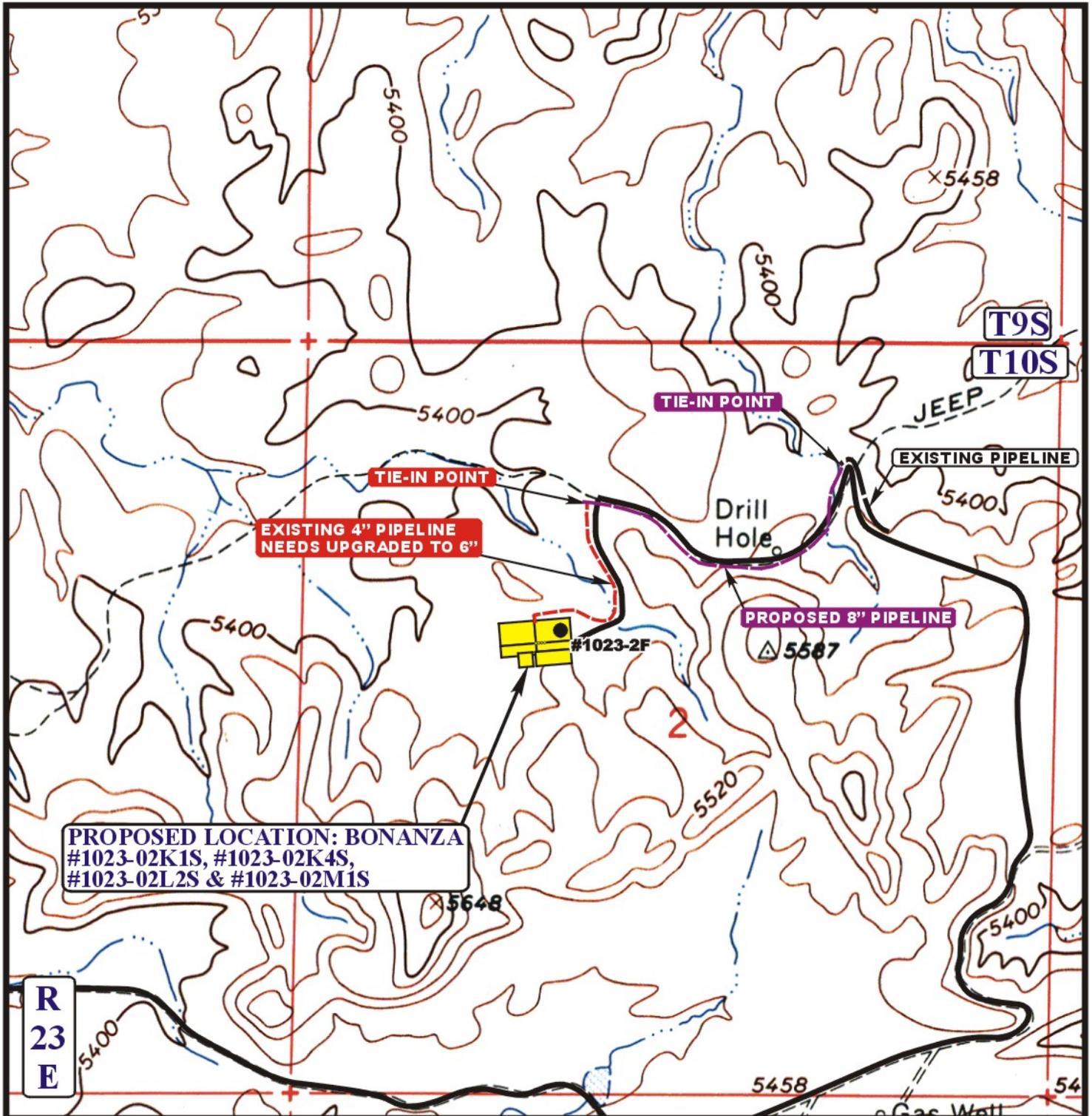
- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**Kerr-McGee Oil & Gas Onshore LP
BONANAZA #1023-02K1S, #1023-02K4S,
#1023-02L2S & #1023-02M1S
SECTION 2, T10S, R23E, S.L.B.&M.
SE 1/4 NW 1/4**

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



TOPOGRAPHIC **10 16 08**
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: D.P. REVISED: 00-00-00 **C TOPO**



PROPOSED LOCATION: BONANZA
 #1023-02K1S, #1023-02K4S,
 #1023-02L2S & #1023-02M1S

APPROXIMATE TOTAL POPOSED 8" PIPELINE DISTANCE = 2,356' +/-

APPROXIMATE TOTAL PIPELINE UPGRADE DISTANCE = 1,495' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PIPELINE 4" TO 6" UPGRADE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



Kerr-McGee Oil & Gas Onshore LP
BONANAZA #1023-02K1S, #1023-02K4S,
#1023-02L2S & #1023-02M1S
SECTION 2, T10S, R23E, S.L.B.&M.
SE 1/4 NW 1/4

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

TOPOGRAPHIC **10 16 08**
MAP MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: D.P. REVISED: 00-00-00 **D TOPO**

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-02K1S, #1023-02K4S, #1023-02L2S
& #1023-02M1S
SECTION 2, 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 DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN WESTERLY DIRECTION TO THE EXISTING BONANZA #1023-2F AND THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 64.1 MILES.

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-02K1S, #1023-02K4S, #1023-02L2S & #1023-02M1S
LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T10S, R23E, S.L.B.&M.

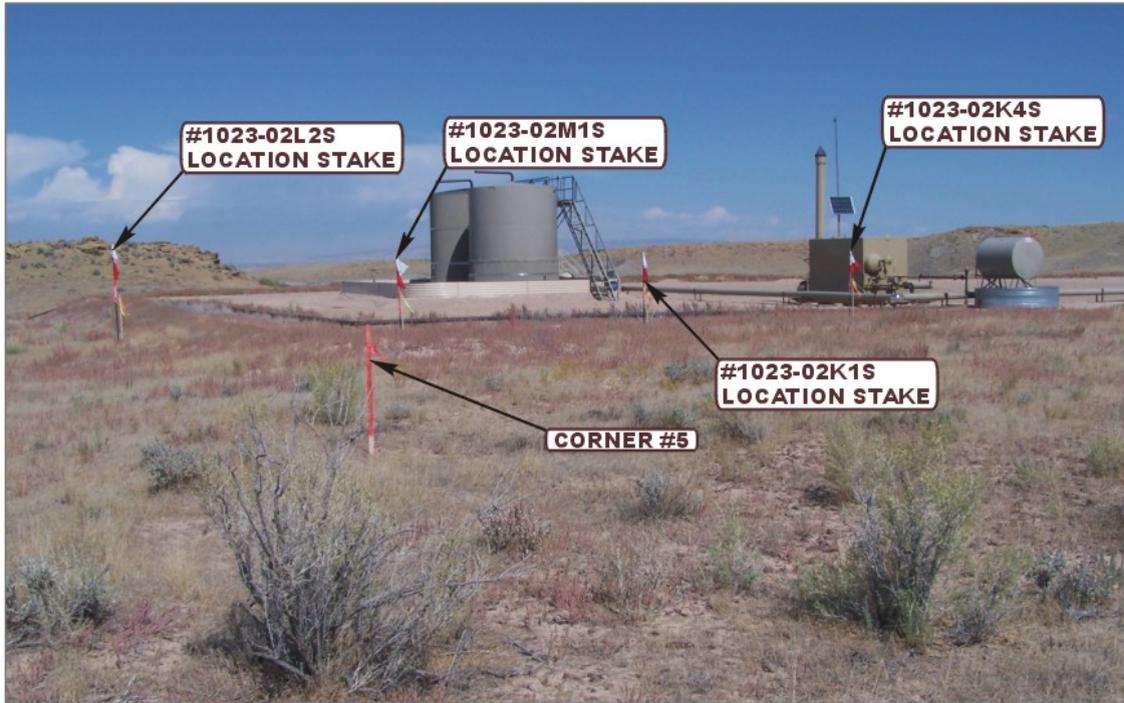


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

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

LOCATION PHOTOS	10	16	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: D.P.		REVISED: 00-00-00	

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-02K1S, #1023-02K4S, #1023-02L2S & #1023-02M1S
LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T10S, R23E, S.L.B.&M.



PHOTO: VIEW OF EXISTING ROAD AND PIPELINE

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

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

LOCATION PHOTOS	10	16	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: D.P.		REVISED: 00-00-00	

Kerr-McGee Oil & Gas Onshore LP

Bonanza 1023-2K1S

Surface: 2,115' FNL, 1,680' FWL (SE/4NW/4)
BHL: 2,395' FSL 2,070' FWL (NE/4SW/4)

Bonanza 1023-2K4S

Surface: 2,113' FNL, 1,700' FWL (SE/4NW/4)
BHL: 1,760' FSL 2,580' FWL (NE/4SW/4)

Bonanza 1023-2L2S

Surface: 2,118' FNL, 1,640' FWL (SE/4NW/4)
BHL: 2,520' FSL 470' FWL (NW/4SW/4)

Bonanza 1023-2M1S

Surface: 2,116' FNL, 1,660' FWL (SE/4NW/4)
BHL: 1,250' FSL 1,235' FWL (SW/4SW/4)

Section 2 Township 10 South Range 23 East

Pad: Bonanza 1023-2F

Uintah, Utah

Minerals: State – ML47062

Surface: State

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Directional Drilling:

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

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

Approximately ± 0.0 mi. ($\pm 0'$) of new access road is proposed. Please refer to the attached Topo Map B.

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. Appropriate water control will be installed to control erosion.

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.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

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

Please refer to Topo Map C.

4. Location of Existing & 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.

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. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Shadow Gray, a non-reflective earthtone.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately ±2,356' of 8" pipeline is proposed. In addition, approximately 1,495' of 4" pipeline needs to be upgraded to 6". Refer to Topo D for the proposed and upgraded pipeline.

5. 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:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used; it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit. Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

Kerr-McGee Oil & Gas Onshore LP
Bonanza 1023-2K1S/ 2K4S/ 2L2S/ 2M1S

Page 4
Surface Use and Operations Plan

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

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:

None are anticipated.

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

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

Please see the attached diagram to describe rig orientation, parking areas, 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:

39 inch net wire 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 Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

Kerr-McGee Oil & Gas Onshore LP
Bonanza 1023-2K1S/ 2K4S/ 2L2S/ 2M1S

Page 6
Surface Use and Operations Plan

11. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

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 Plan of Operations, 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.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

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

Kerr-McGee Oil & Gas Onshore LP
Bonanza 1023-2K1S/ 2K4S/ 2L2S/ 2M1S

Page 7
Surface Use and Operations Plan

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

Kathy Schneebeck Dulnoan
Staff Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6226

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 State Surety Bond 22013542.

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

April 20, 2009
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S ELEVEN PROPOSED WELL LOCATIONS
IN TOWNSHIP 10S, RANGE 23E, SECTIONS 2 AND 7,
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S ELEVEN PROPOSED WELL LOCATIONS
IN TOWNSHIP 10S, RANGE 23E, SECTIONS 2 AND 7,
UINTAH COUNTY, UTAH

By:

Patricia Stavish

Prepared For:

State of Utah
School & Institutional Trust Lands Administration
and
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. 09-009

March 3, 2009

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

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

INTRODUCTION

A Class I literature review was completed Montgomery Archaeological Consultants Inc. (MOAC) in February 2009 of Kerr-McGee Onshore's 11 proposed directional well locations with associated access and pipeline corridors in Township 10S, Range 23E, Sections 2 and 7. The project area is situated north of the White River, south of the town of Vernal, Uintah County, Utah. The well pads are designated: (Bonanza #1023-02B) Directional Pad, Bonanza #1023-02G1BS, Bonanza #1023-02G3BS, Bonanza #1023-02G2CS, Bonanza #1023-02H3CS, Bonanza #1023-02F Directional Pad, Bonanza #1023-02K1S, Bonanza #1023-02K4S, Bonanza #1023-02L2S, Bonanza #1023-02M1S, and Bonanza #1023-7E-4. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Onshore LP, Denver, Colorado. Land status includes state lands administered by the State of Utah School & Institutional Trust Lands Administration (SITLA) and public lands administered by the Bureau of Land Management, 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 Onshore's 11 proposed directional well locations occur, was previously inventoried by MOAC in 2003 for two Class III block inventories of Westport Oil & Gas Company's proposed oil and gas development in Sections 2 and 7 (Elkins and Montgomery 2003a,b). 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 & 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 one previous archaeological site (42Un3475) occurs near the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated near the Southman Canyon Gas Field and north of the White River in the Uinta Basin. The legal description is Township 10 South, Range 23 East, Sections 2 and 7 (Table 1; Figure 1).

Table 1. Kerr-McGee Onshore's 11 Proposed Directional Well Locations.

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
(Bonanza #1023-02B) Directional Pad Bonanza #1023-02G1BS Bonanza #1023-02G3BS Bonanza #1023-02G2CS Bonanza #1023-02H3CS	NW/NE Sec. 2, T10S, R23E	Access: 142 ft Pipeline: 204 ft	None
Bonanza #1023-02F Directional Pad Bonanza #1023-02K1S Bonanza #1023-02K4S Bonanza #1023-02L2S Bonanza #1023-02M1S	SE/NW Sec. 2, T10S, R23E	Pipeline: 3844 ft	42Un3475
Bonanza #1023-7E-4	SW/NW Sec. 7, T10S, R23E	Pipeline: 573 ft Access: 310 ft	None

Environmental Setting

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 adjacent to the White River and Bitter Creek. Elevation averages 4860 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.

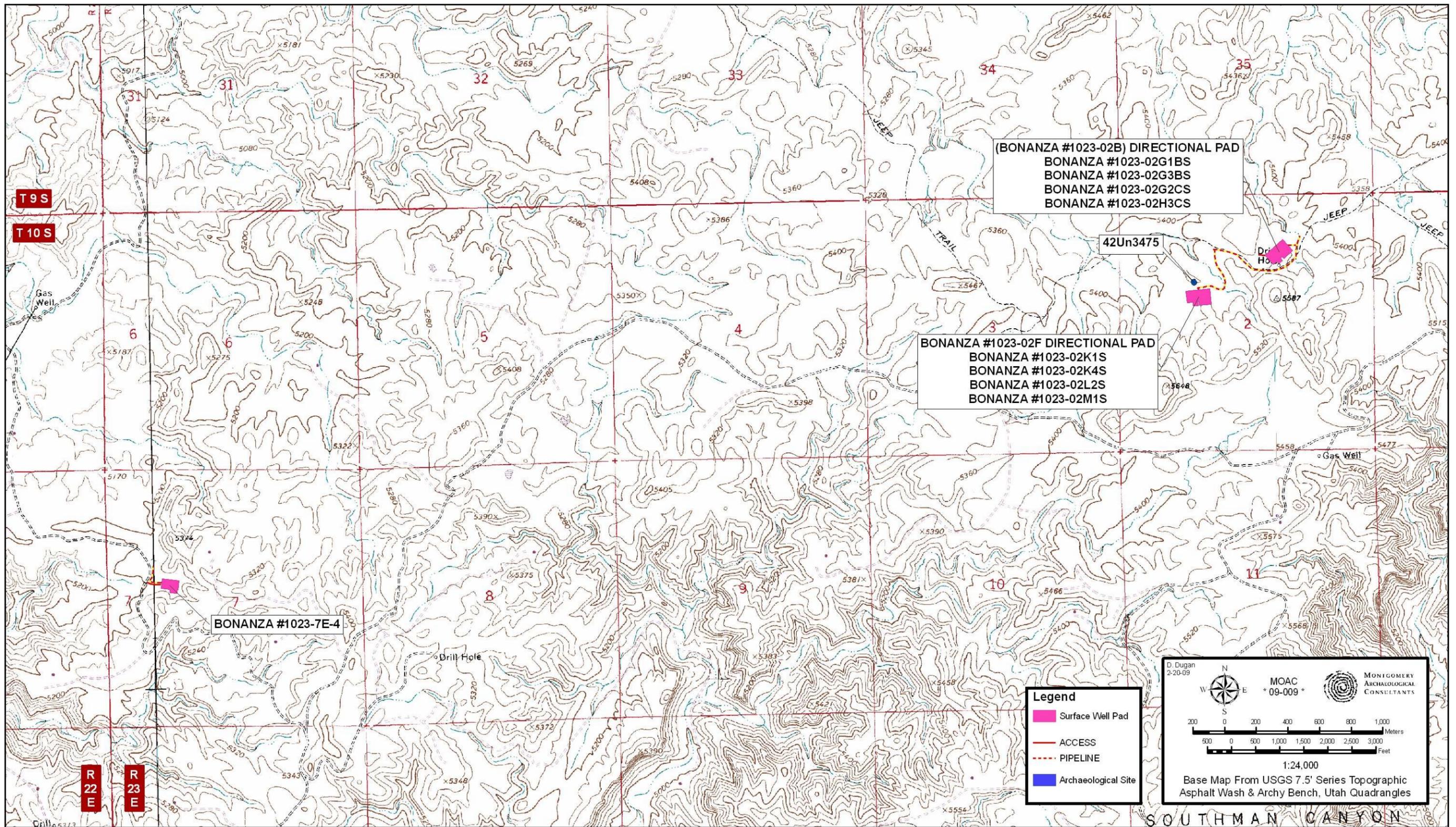


Figure 1. Kerr-McGee Oil & Gas Onshore LP's 11 Proposed Well Locations with Access and Pipeline Corridors, Uintah County, Utah.

CLASS I RESULTS AND RECOMMENDATIONS

The Class I literature review resulted in the location of one previously documented site, 42Un3475. Site 42Un3475 is a prehistoric temporary camp documented by MOAC in 2003 (Elkins and Montgomery 2003a). The site consists of a rockshelter with a hearth and an artifact scatter. 42Un3475 has been recommended as eligible to the NRHP under Criterion D.

The Class I literature review of 11 proposed well locations with associated pipeline and access corridors in Township 10S, Range 23E, Sections 2 and 7 resulted in the location of one previously documented archaeological site (42Un3474). Site 42Un3475 has been evaluated as eligible to the NRHP under Criterion D. It is recommended that site 42Un3475 be avoided by the undertaking. The Bonanza #1023-02F well pad is situated 100 ft from the site and 75 ft from the associated pipeline, which should provide avoidance of the site. Based on the adherence to this avoidance recommendation, a determination of "no adverse impact" is proposed pursuant to Section 106, CFR 800.

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2003b Cultural Resource Block Inventory of Sections 4, 5, 6, 7, and 8, Township 10 South, Range 23 East for Westport Oil & Gas Company, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-03-MQ-882b.

Patterson, J. J., J. Fritz, K. Lower-Eskelson, R. Stash and A. Thomas

2008 NBU Class I Existing Data Review for Kerr-McGee Oil & Gas Onshore LP, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah.

Stokes, W. L.

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IPC #08-265

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Multi-Well Pad and Pipelines for
"Bonanza #1023-02K4S, 02K1S, 02L2S, &
02M1S" (Sec. 2, T 10 S, R 23 E)**

Asphalt Wash
Topographic Quadrangle
Uintah County, Utah

October 28, 2008

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 Oil & Gas Onshore LP and authorized by James Kirkland of the Office of the State Paleontologist, a paleontological reconnaissance survey of Kerr McGee's proposed multi-well pad and pipelines for "Bonanza #1023-02K4S, 02K1S, 02L2S, & 02M1S" (Sec. 2, T 10 S, R 23 E) was conducted by Simon Masters and Carisa Bomberger on October 13, 2008. The survey was conducted under Utah Paleontological Investigations Permit #07-356. This survey to collect any paleontological materials discovered during the construction processes in danger of damage or destruction 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 State of Utah, paleontologically-sensitive geologic formations on State lands that 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.

The new Potential Fossil Yield Classification (PFYC) System (October, 2007) replaces the Condition Classification System from Handbook H-8270-1. 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 pad and pipelines for "Bonanza #1023-02K4S, 02K1S, 02L2S, & 02M1S" (Sec. 2, T 10 S, R 23 E) is located on lands managed by the State of Utah Trust Lands Administration (SITLA) approximately 5-6 miles south of Coyote Wash, about 2-3 miles north of the White River, and some 9-11 miles southwest of Bonanza, Utah. The project area can be found on Asphalt Wash 7.5 minute U. S. Geological Survey Quadrangle Map, 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 proposed pipeline for "Bonanza #1023-02K4S, 02K1S, 02L2S, & 02M1S" ties in to an existing pipeline in the NE/NE quarter-quarter section of Sec. 2, T 10 S, R 23 E and travels south for about two-tenths mile turns west and travels about four-tenths miles to where it ties in with an existing pipeline for "Bonanza #1023-2F" in the NE/NW quarter-quarter section of Sec. 2 (Figure 1). The proposed wells are twins to "Bonanza #12023-2F" located in the SE/NW quarter-quarter section of Sec. 2. The proposed pipeline upgrade from 4" to 6" begins at the multi-well pad and travels east for a couple hundred feet before turning and continuing north four about 0.2 mile to tie in to the proposed pipeline in the NE/NW quarter-quarter section of Sec. 2. The proposed pipeline travels along an existing road and starts out following an existing pipeline route. It then crosses the road, but continues to travel parallel to the existing road. The proposed pipeline route travels through rolling hills and drainages covered in sand to cobble-sized clasts of tan, medium to fine-grained sandstone, white-tan siltstone, and gray siltstone colluvium, grass, and sagebrush. It also passes along the base of outcrop hills capped in tan, medium to coarse-grained sandstone, through weathered outcrops of white-tan, fine-grained

sandstone/siltstone; maroon siltstone; and grey siltstone desert varnished to purple and boulders from the tan sandstone caps. The proposed pipeline upgrade is not staked. It follows an existing pipeline from the well pad over rolling hills covered in colluvium back to where the proposed pipeline ties in. The proposed multi-well pad expands the existing well pad towards the north and the west. The undisturbed area is situated in a relatively flat area covered in colluvium with drainages directly north, west, and east of the staked area. Outcrop hills capped by tan sandstone are located 50-200 feet from the staked pad on most sides. No fossils were found.

SURVEY RESULTS

PROJECT	GEOLOGY	PALEONTOLOGY
<p>“Bonanza #1023-02K4S, 02K1S, 02L2S, & 02M1S” (Sec. 2, T 10 S, R 23 E)</p>	<p>The proposed pipeline travels along an existing road and starts out following an existing pipeline route. It then crosses the road, but continues to travel parallel to the existing road. The proposed pipeline route travels through rolling hills and drainages covered in sand to cobble-sized clasts of tan, medium to fine-grained sandstone, white-tan siltstone, and gray siltstone colluvium, grass, and sagebrush. It also passes along the base of outcrop hills capped in tan, medium to coarse-grained sandstone, through weathered outcrops of white-tan, fine-grained sandstone/siltstone; maroon siltstone; and grey siltstone desert varnished to purple and boulders from the tan sandstone caps. The proposed pipeline upgrade is not staked. It follows an existing pipeline from the well pad over rolling hills covered in colluvium back to where the proposed pipeline ties in. The proposed multi-well pad expands the existing well pad towards the north and the west. The undisturbed area is situated in a relatively flat area covered in colluvium with drainages directly north, west, and east of the staked area. Outcrop hills capped by tan sandstone are located 50-200 feet from the staked pad on most sides.</p>	<p>No fossils were found. Class 3a</p>

RECOMMENDATIONS

A reconnaissance survey was conducted for Kerr McGee's proposed multi-well pad and pipelines for "Bonanza #1023-02K4S, 02K1S, 02L2S, & 02M1S" (Sec. 2, T 10 S, R 23 E). The multi-well pad and the associated access road 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 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 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.

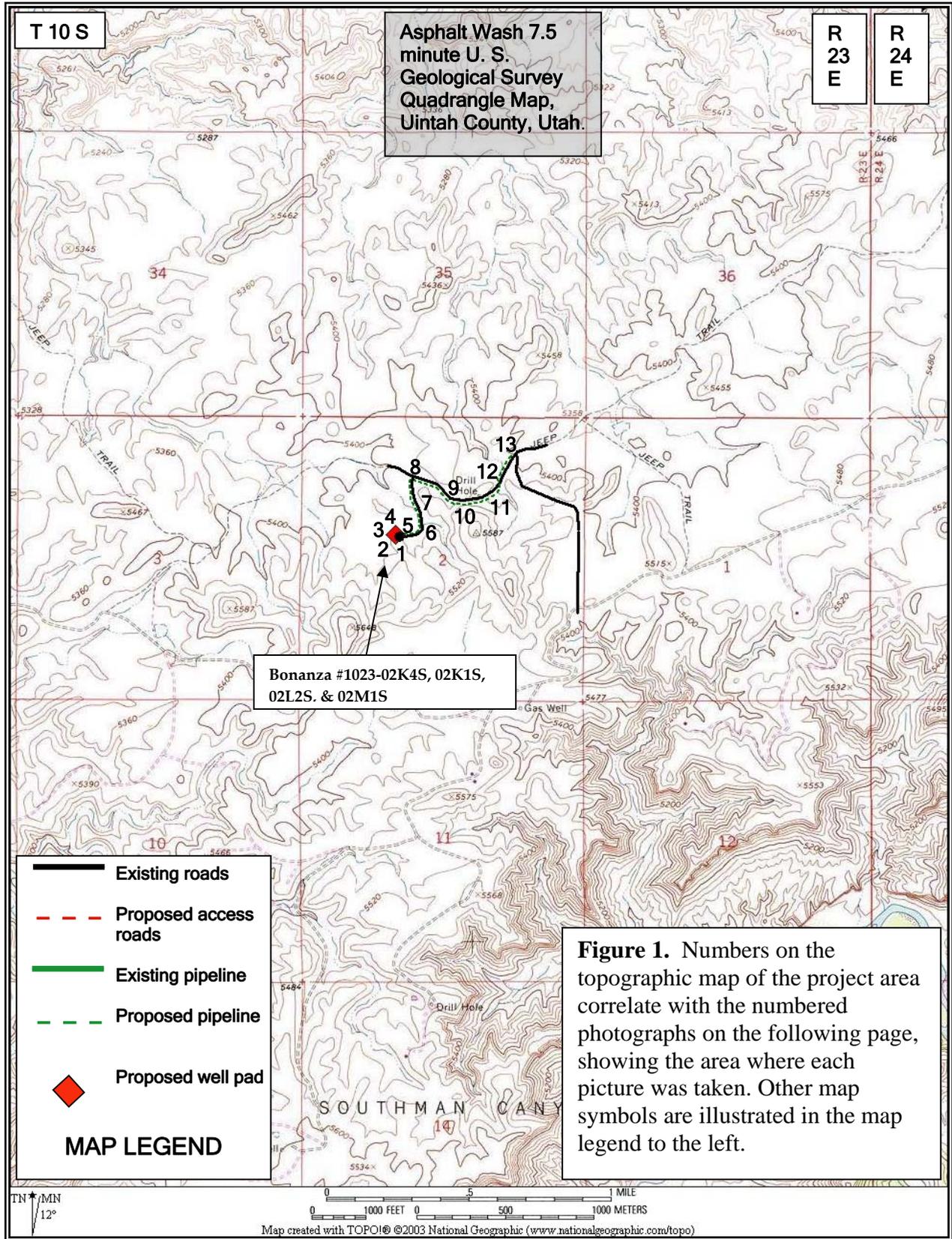
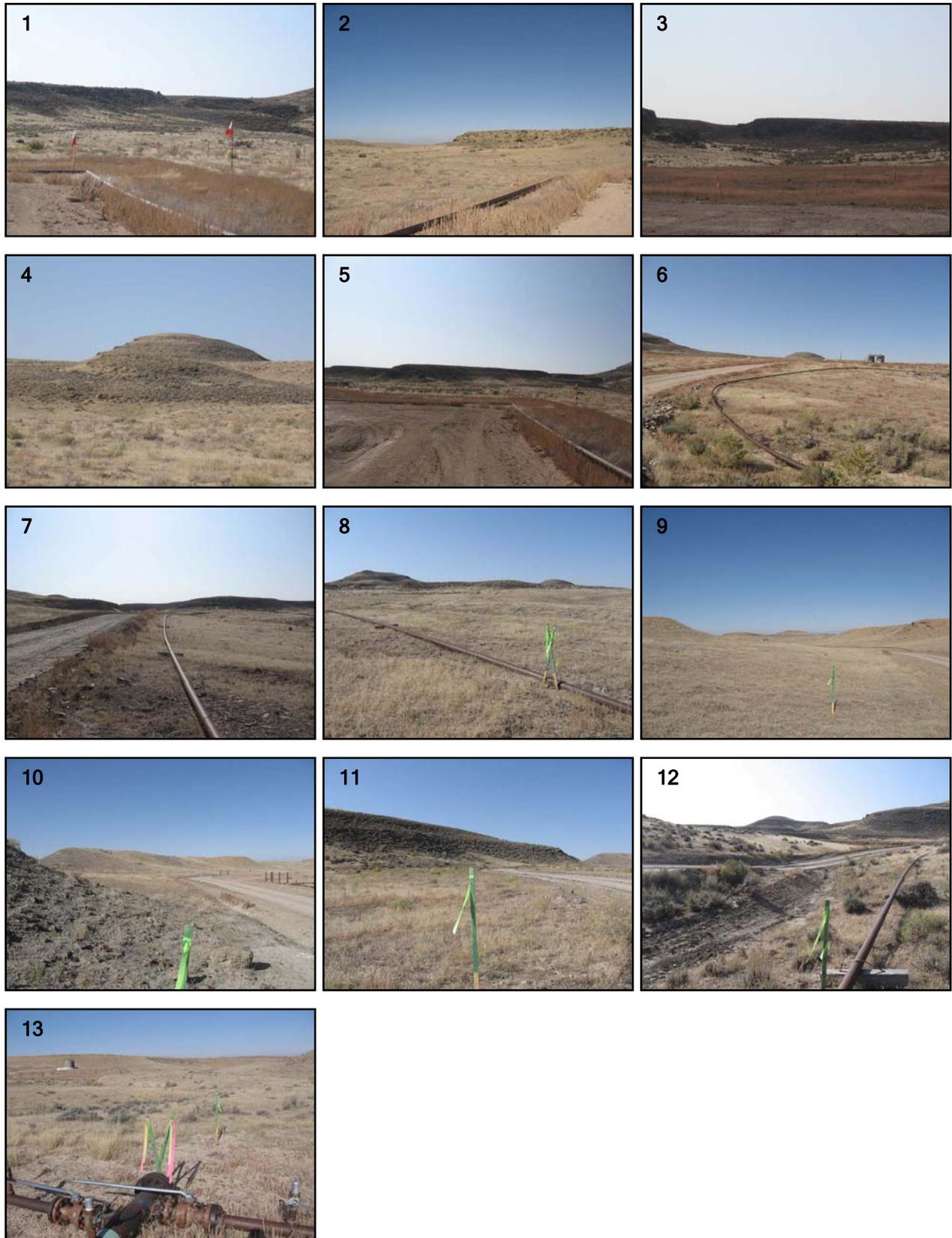


Figure 1. *continued...*



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API Number: 4304750382

Well Name: BONANZA 1023-2K1S

Township 10.0 S Range 23.0 E Section 2

Meridian: SLBM

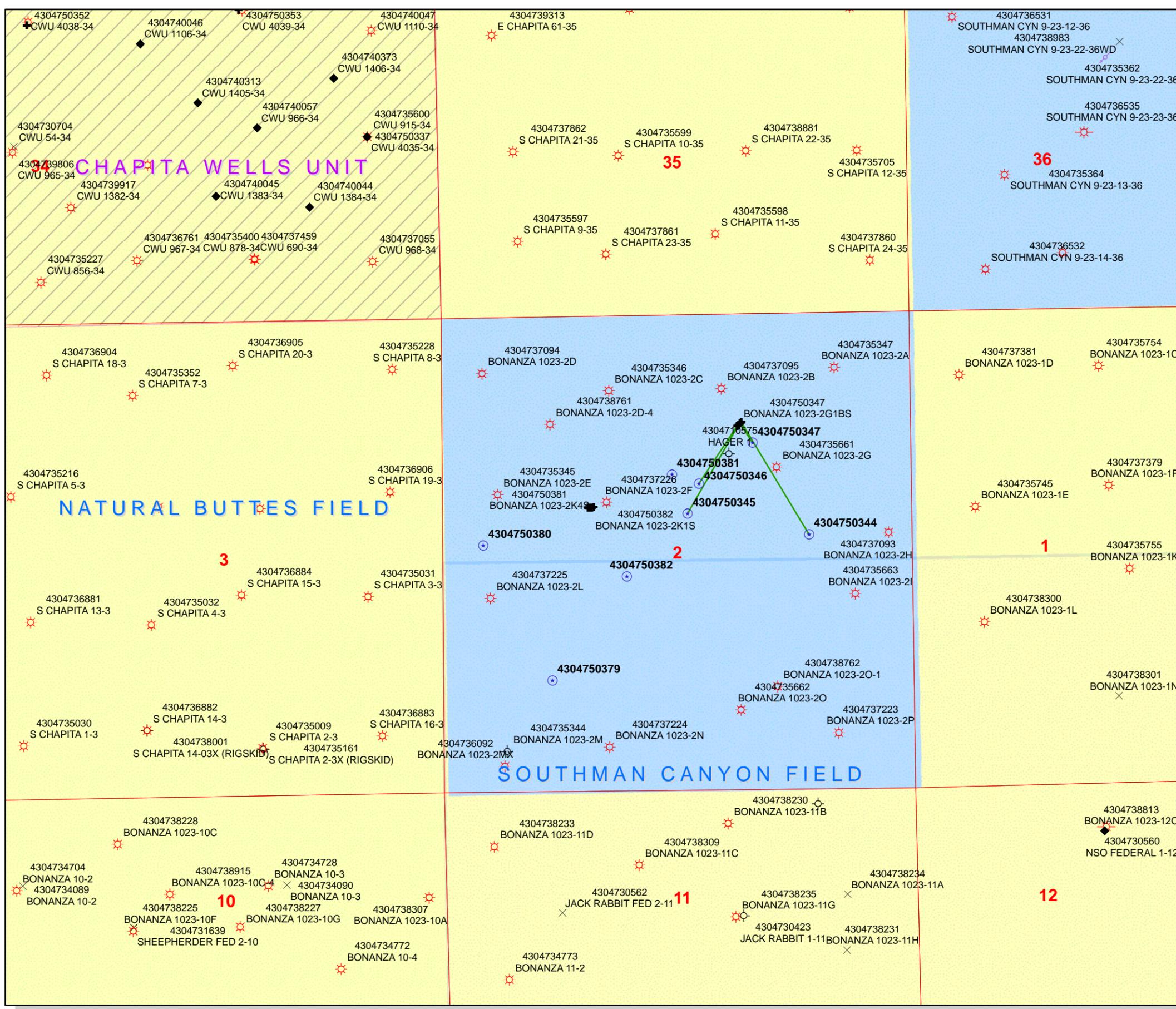
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

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



1:13,661



From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 6/15/2009 4:09 PM
Subject: Anadarko (Kerr McGee) Approvals. Two four-well pads.

CC: Garrison, LaVonne
The following wells have been approved by SITLA including arch and paleo clearance.

Bonanza 1023-2M1S (4304750379)
Bonanza 1023-2K1S (4304750382)
Bonanza 1023-2K4S (4304750381)
Bonanza 1023-2L2S (4304750380)

NBU 1022-19A1CS (4304750424)
NBU 1022-19A3BS (4304750425)
NBU 1022-19H1AS (4304750426)
NBU 1022-19H2BS (4304750427)

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. BONANZA 1023-2K1S 430475		
String	Surf	Prod	
Casing Size(")	9.625	4.500	
Setting Depth (TVD)	2175	8000	
Previous Shoe Setting Depth (TVD)	20	2175	
Max Mud Weight (ppg)	8.4	11.4	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	4745	11.4	

Calculations	Surf String	9.625	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	950	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	689	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	472	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	476	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2175	psi
*Max Pressure Allowed @ Previous Casing Shoe=		20	psi *Assumes 1psi/ft frac gradient

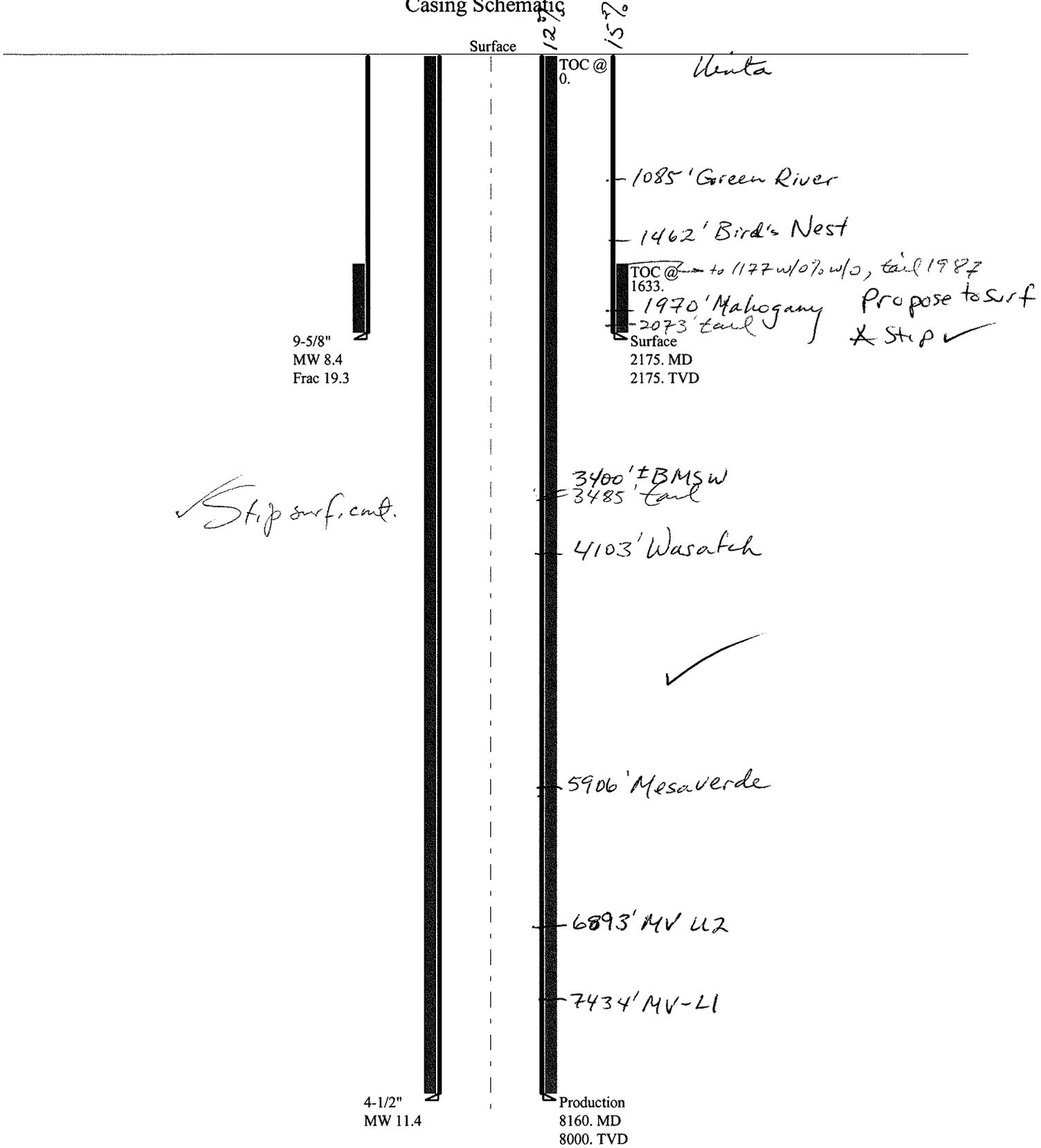
Calculations	Prod String	4.500	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	4742	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	3782	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	2982	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	3461	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2175	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047503820000 BONANZA 1023-2K1S

Casing Schematic



9-5/8"
MW 8.4
Frac 19.3

Stop surf. cont.

4-1/2"
MW 11.4

Production
8160. MD
8000. TVD

Surface

TOC @
0.

Uenta

1085' Green River

1462' Bird's Nest

TOC @ 1633. to 1177 w/o 7.0 w/o, tail 1987

1970' Mahogany Propose to surf
2073' tail * Stop ✓

Surface
2175. MD
2175. TVD

3400' ± BMSW
3485' tail

4103' Wasatch

5906' Mesaverde

6893' MV U2

7434' MV-L1

Well name:	43047503820000 BONANZA 1023-2K1S		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-50382
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 8.400 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 104 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 1,633 ft

Burst

Max anticipated surface pressure: 1,914 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,175 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 1,905 ft

Directional Info - Build & Drop

Kick-off point 2100 ft
 Departure at shoe: 1 ft
 Maximum dogleg: 2.5 °/100ft
 Inclination at shoe: 1.88 °

Re subsequent strings:

Next setting depth: 7,823 ft
 Next mud weight: 11.400 ppg
 Next setting BHP: 4,633 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,175 ft
 Injection pressure: 2,175 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2175	9.625	36.00	J-55	LT&C	2175	2175	8.796	17786

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	949	1961	2.067	2175	3520	1.62	78.3	453	5.79 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: June 3, 2009
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2175 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047503820000 BONANZA 1023-2K1S	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-50382
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 11.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 184 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: Surface

Burst

Max anticipated surface pressure: 2,912 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,633 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional well information:

Kick-off point 0 ft
Departure at shoe: 1671 ft
Maximum dogleg: 2.5 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 6,827 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8160	4.5	11.60	I-80	LT&C	7823	8160	3.875	107712

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4633	6360	1.373	4633	7780	1.68	90.8	212	2.34 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: June 3, 2009
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7823 ft, a mud weight of 11.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name BONANZA 1023-2K1S
API Number 43047503820000 **APD No** 1469 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SENW **Sec 2 Tw** 10.0S **Rng** 23.0E 2115 FNL 1680 FWL
GPS Coord (UTM) 645427 4426650 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Ramie Hoopes, Griz Oleen and Tony Kzneck (Kerr McGee), Pat Rainbolt (UDWR) and David Kay (Uintah Engineering and Land Surveying).

Regional/Local Setting & Topography

The general area is within the south edge of the Coyote Wash Drainage southwest of Bonanza, Utah. This drainage is a major drainage beginning near the Utah-Colorado border to the east and joining the White River approximately 8 miles to the west. The drainage consists of several significant side drainages. The drainage is dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. The topography is characterized by rolling hills, frequently divided by gentle to deep draws, which flow into Coyote Wash. The draws are often rimmed with steep side hills with exposed sand stone bedrock cliffs. Ouray, Utah is approximately 32.3 road miles to the northwest with Vernal, Utah approximately 35 air miles to the northwest. The area is accessed by Utah State, Uintah County and existing oilfield development Roads to the site.

Four gas wells are proposed to be directionally drilled from this pad which will be an extension of the existing pad of the Bonanza 1023-02F gas well. The new pad will be oriented in a east to west direction utilizing the west end of the existing pad. Terrain is a gentle north slope which extends away from hills to the south that have exposed sandstone bedrock outcrops. A rocky knoll also exists to the north. No drainages intersect the location and no diversions are needed. No stability problems were noted with the existing pad. The selected site appears to be a good location for constructing a pad and drilling and operating the proposed wells and the best location in the immediate area.

Both the surface and minerals for this location are owned by SITLA. Jim Davis of SITLA attended the pre-site visit and had no concerns regarding the proposed location.

Surface Use Plan

Current Surface Use

- Grazing
- Recreational
- Wildlfe Habitat
- Deer Winter Range
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 440 Length 398	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is fair with halogeton, annual mustard, greasewood and shadscale present.

Antelope, coyote, small mammals and birds. Winter domestic sheep grazing

Soil Type and Characteristics

Soils are a shallow sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
Final Score		40	1 Sensitivity Level

Characteristics / Requirements

A reserve pit 100'x 250'x 10' deep is planned in an area of cut in the south west corner of the location. Because the length of time the reserve pit will be used and the roughness of the terrain, Kerr McGee committed to line it with a double 20-mil.liner and an appropriate thickness of felt sub-liner to cushion the rock. A second pit for completion flows is shown on the Layout Sheet. If it is to be constructed it will be applied for separately.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett
Evaluator

11/18/2008
Date / Time

Application for Permit to Drill Statement of Basis

6/25/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1469	43047503820000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	BONANZA 1023-2K1S		Unit		
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SENW 2 10S 23E S 2115 FNL 1680 FWL		GPS Coord (UTM)	645413E	4426651N

Geologic Statement of Basis

Kerr McGee proposes to set 2,175' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2 . The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The production casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters up hole. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill
APD Evaluator

5/19/2009
Date / Time

Surface Statement of Basis

The general area is within the south edge of the Coyote Wash Drainage southwest of Bonanza, Utah. This drainage is a major drainage beginning near the Utah-Colorado border to the east and joining the White River approximately 8 miles to the west. The drainage consists of several significant side drainages. The drainage is dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. The topography is characterized by rolling hills, frequently divided by gentle to deep draws, which flow into Coyote Wash. The draws are often rimmed with steep side hills with exposed sand stone bedrock cliffs. Ouray, Utah is approximately 32.3 road miles to the northwest with Vernal, Utah approximately 35 air miles to the northwest. The area is accessed by Utah State, Uintah County and existing oilfield development Roads to the site.

Four gas wells are proposed to be directionally drilled from this pad which will be an extension of the existing pad of the Bonanza 1023-02F gas well. The new pad will be oriented in a east to west direction utilizing the west end of the existing pad. Terrain is a gentle north slope which extends away from hills to the south that have exposed sandstone bedrock outcrops. A rocky knoll also exists to the north. No drainages intersect the location and no diversions are needed. No stability problems were noted with the existing pad. The selected site appears to be a good location for constructing a pad and drilling and operating the proposed wells and the best location in the immediate area.

A reserve pit 100'x 250'x 10' deep is planned in an area of cut in the south west corner of the location. Because the length of time the reserve pit will be used and the roughness of the terrain, Kerr McGee committed to line it with a double 20-mil.liner and an appropriate thickness of felt sub-liner to cushion the rock. A second pit for completion flows is shown on the Layout Sheet. If it is to be constructed it will be applied for separately.

Both the surface and minerals for this location are owned by SITLA. Jim Davis of SITLA attended the pre-site visit and had no concerns regarding the proposed location.

Application for Permit to Drill Statement of Basis

6/25/2009

Utah Division of Oil, Gas and Mining

Page 2

Pat Rainbolt represented the Utah Division of Wildlife Resources. Mr. Rainbolt stated the area is classified as critical yearlong habitat for antelope. He however recommended no stipulations for this species as the loss of forage from this location is not significant and water not forage is the factor limiting the herd population in the area. No other wildlife is expected to be affected. He gave Ramie Hoopes, representing Kerr McGee and Mr. Davis a copy of his evaluation and a DWR recommended seed mix to use when re-vegetating the area.

Floyd Bartlett
Onsite Evaluator

11/18/2008
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/1/2009

API NO. ASSIGNED: 43047503820000

WELL NAME: BONANZA 1023-2K1S

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

PHONE NUMBER: 720 929-6007

CONTACT: Kathy Schneebeck-Dulnoan

PROPOSED LOCATION: SENW 2 100S 230E

Permit Tech Review:

SURFACE: 2115 FNL 1680 FWL

Engineering Review:

BOTTOM: 2395 FSL 2070 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97942

LONGITUDE: -109.29707

UTM SURF EASTINGS: 645413.00

NORTHINGS: 4426651.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 47062

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - 22013542
- 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. drl. unit boundary
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
25 - Surface Casing - hmadonald



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 1023-2K1S
API Well Number: 43047503820000
Lease Number: ML 47062
Surface Owner: STATE
Approval Date: 6/30/2009

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 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

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

Conditions of Approval:

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.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Notification Requirements:

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

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact

Dustin Doucet

- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well - contact Dustin Doucet
- Any changes to the approved drilling plan - contact Dustin Doucet

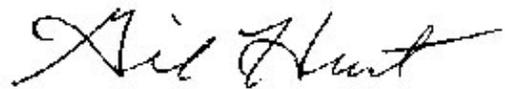
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office
(801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- 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:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
---	---

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 1023-2K1S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
---	---

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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
--	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/19/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input 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: Frac Factory Pit/ Refurb

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: November 17, 2009

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 11/17/2009



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047503820000

A synthetic liner with a minimum thickness of 30 mils shall be properly installed and maintained in the pit.

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

Date: November 17, 2009

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
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 1023-2K1S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/7/2010	<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:

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 01/07/2010 AT 15:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 11, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/11/2010	

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
Address: P.O. Box 173779
city DENVER
state CO zip 80217

Operator Account Number: N 2995

Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750379	BONANZA 1023-2M1S		SEnw	2	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17443	1/7/2010		1/12/2010		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 1/7/2010 AT 11:00 HRS. <i>BHL = 5WSW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750380	BONANZA 1023-2L2S		SEnw	2	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17444	1/7/2010		1/12/2010		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 1/7/2010 AT 13:00 HRS. <i>BHL = NWSW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750382	BONANZA 1023-2K1S		SEnw	2	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17445	1/7/2010		1/12/2010		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 1/7/2010 AT 15:00 HRS. <i>BHL = NESW</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)

[Signature]
Signature

REGULATORY ANALYST

Title

1/11/2010

Date

RECEIVED
JAN 11 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
---	---

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 1023-2K1S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
---	---

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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/28/2010 <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 checked="" 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:

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

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing for this well due to revised drilling practices. The surface casing depth is changing FROM: 2,175' TO: 2,120'. Additionally, the surface casing size is changing FROM: 9-5/8" TO: 8-5/8". Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: February 02, 2010

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/26/2010



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	8-5/8"	0 to 2,120	28.00	IJ-55	LTC	3,390 1.08	1,880 1.89	348,000 5.80
PRODUCTION	4-1/2"	0 to 8,160	11.60	I-80	BTC	7,780 2.54	6,350 1.32	278,000 3.37

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

D.F. = 2.54

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 2,975 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 4,830 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18	
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	260	0%	15.60	1.18	
			+ 2% CaCl + 0.25 pps flocele					
			Premium cmt + 2% CaCl					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2	LEAD	1,620'	65/35 Poz + 6% Gel + 10 pps gilsonite	310	35%	12.60	1.81	
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.60	1.18	
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18	
PRODUCTION	LEAD	3,600'	Premium Lite II +0.25 pps	290	40%	11.00	3.38	
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	4,560'	50/50 Poz/G + 10% salt + 2% gel	1,120	40%	14.30	1.31	
			+ 0.1% R-3					

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

John Huycke / Emile Goodwin

DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
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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 1023-2K1S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
---	---

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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/11/2010 <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 checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

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

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the tail cement for this well due to a revised drilling procedure. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: February 11, 2010

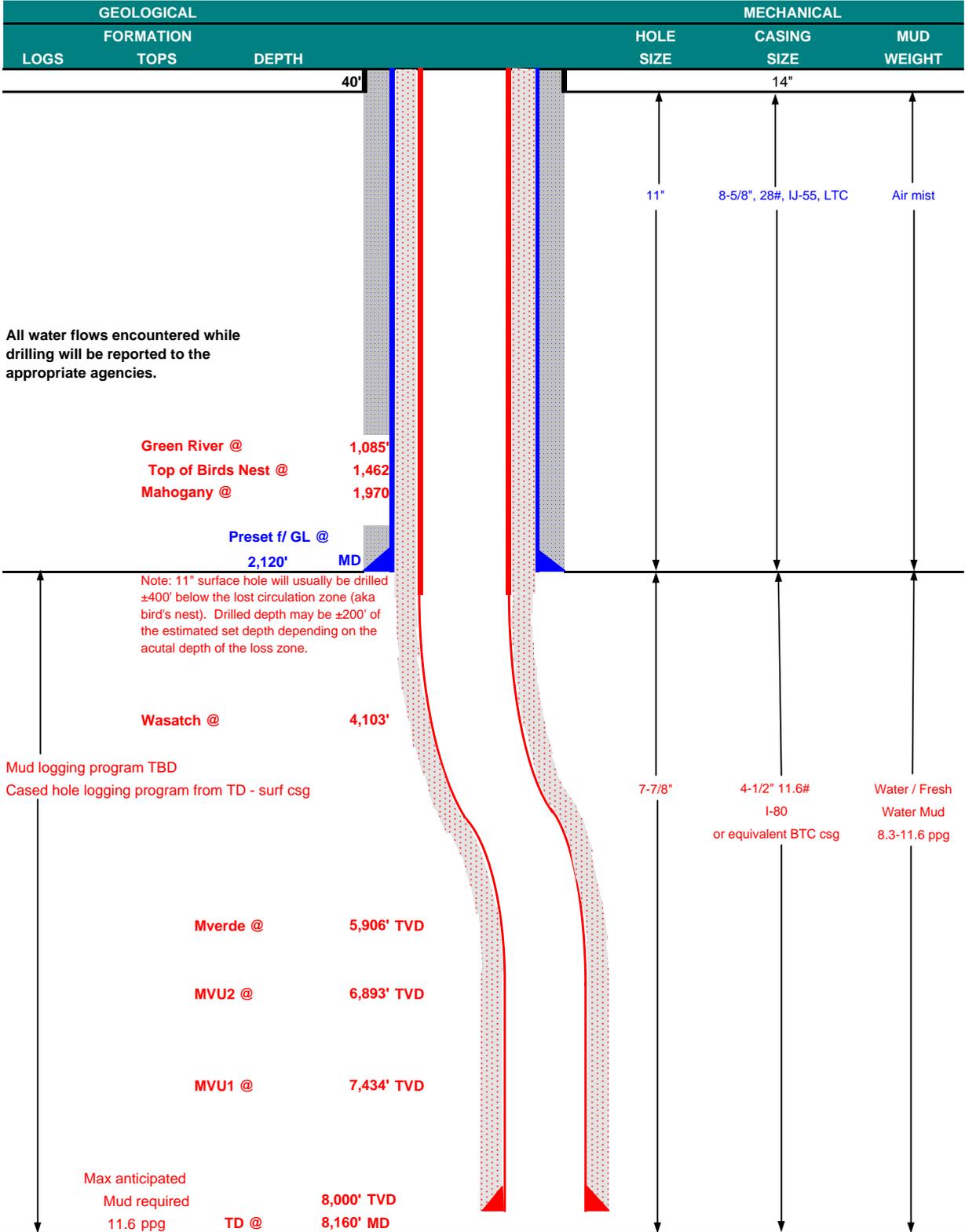
By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/9/2010



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE February 9, 2010
 WELL NAME Bonanza 1023-2K1S TD 8,000' TVD 8,160' MD
 FIELD Natural Buttes COUNTY Uintah STATE Utah FINISHED ELEVATION 5,438'
 SURFACE LOCATION SE/4 NW/4 2,115' FNL 1,680' FWL Sec 2 T 10S R 23E
 Latitude: 39.979440 Longitude: -109.296957 NAD 27
 BTM HOLE LOCATION NE/4 SW/4 2,395' FSL 2,070' FWL Sec 2 T 10S R 23E
 Latitude: 39.977281 Longitude: -109.295578 NAD 27
 OBJECTIVE ZONE(S) Wasatch/Mesaverde
 ADDITIONAL INFO Regulatory Agencies: SITLA (Minerals), UDOGM (Surface), Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,120	28.00	IJ-55	LTC	1.08	1.89	5.80
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 8,160	11.60	I-80	BTC	2.54	1.32	3.37

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.54

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 2,975 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 4,830 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	260	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1,620'	65/35 Poz + 6% Gel + 10 pps gilsonite	310	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	5,560'	Premium Lite II +0.25 pps	480	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,600'	50/50 Poz/G + 10% salt + 2% gel	640	40%	14.30	1.31
			+ 0.1% R-3				

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER: _____ DATE: _____

John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ DATE: _____

John Merkel / Lovel Young



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
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 1023-2K1S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 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: 2/26/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

FINISHED DRILLING FROM 1995' TO 8258' ON 2/24/2010. RAN 4 1/12" 11.6 I-80 PRODUCTION CSG. LEAD CMT W/ 886 SX CLASS G PREMIUM LITE CMT @ 12.2 PPG, 2.17 YIELD. TAILED CMT W/ 500 SX OF CLASS G 50/50 POZ MI @ 14.3 PPG, 1.13 YIELD. DROPPED PLUG AND DISPLACED W/ 127.7 BBLS OF FRESH WATER. BUMPED PLUG @ 2660 PSI. FLOATS HELD W/ 1.5 BBLS OF BBLS CEMENT TO SURFACE. WASH OUT BOP. CLEAN RIG TANKS. RELEASED ENSIGN 146 ON 2/25/2010 @ 10:00 HOURS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 March 02, 2010

NAME (PLEASE PRINT) Laura Gianakos	PHONE NUMBER 307 752-1169	TITLE Regulatory Affairs Supervisor
SIGNATURE N/A	DATE 2/26/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
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1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-2K1S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 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: 2/26/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<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:

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

FINISHED DRILLING FROM 1995' TO 8258' ON 2/24/2010. RAN 4 1/12" 11.6 I-80 PRODUCTION CSG. LEAD CMT W/ 886 SX CLASS G PREMIUM LITE CMT @ 12.2 PPG, 2.17 YIELD. TAILED CMT W/ 500 SX OF CLASS G 50/50 POZ MI @ 14.3 PPG, 1.13 YIELD. DROPPED PLUG AND DISPLACED W/ 127.7 BBLS OF FRESH WATER. BUMPED PLUG @ 2660 PSI. FLOATS HELD W/ 1.5 BBLS OF BBLS CEMENT TO SURFACE. WASH OUT BOP. CLEAN RIG TANKS. RELEASED ENSIGN 146 ON 2/25/2010 @ 10:00 HOURS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 March 02, 2010

NAME (PLEASE PRINT) Laura Gianakos	PHONE NUMBER 307 752-1169	TITLE Regulatory Affairs Supervisor
SIGNATURE N/A	DATE 2/26/2010	

<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: ML 47062</p>
<p>1. TYPE OF WELL Gas Well</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</p>
<p>2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.</p>	<p>7. UNIT or CA AGREEMENT NAME:</p>
<p>3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</p>	<p>8. WELL NAME and NUMBER: BONANZA 1023-2K1S</p>
<p>4. LOCATION OF WELL FOOTAGES AT SURFACE: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 2 Township: 10.0S Range: 23.0E Meridian: S</p>	<p>9. API NUMBER: 43047503820000</p>
<p>PHONE NUMBER: 720 929-6007 Ext</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 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 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/24/2010			

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 4/24/2010 AT 12:00 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 26, 2010

<p>NAME (PLEASE PRINT) Andy Lytle</p>	<p>PHONE NUMBER 720 929-6100</p>	<p>TITLE Regulatory Analyst</p>
<p>SIGNATURE N/A</p>	<p>DATE 4/26/2010</p>	

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 47062

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:
BONANZA 1023-2K1S

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

9. API NUMBER:
4304750382

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6100

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SENW 2115 FNL & 1680 FWL**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NESW 2403 FSL & 2057 FWL SEC.2-10S-23E**
AT TOTAL DEPTH: **NESW 2390 FSL & 2061 FWL SEC.2-10S-23E**

BHL reviewed by HSM

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SENW 2 10S 23E

12. COUNTY **UINTAH** 13. STATE **UTAH**

14. DATE SPUDED: 1/7/2010 15. DATE T.D. REACHED: 2/24/2010 16. DATE COMPLETED: 4/24/2010 ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5438' GL

18. TOTAL DEPTH: MD 8,256 TVD 8,110 19. PLUG BACK T.D.: MD 8,195 TVD 8,049 20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
HDIL/ZDL/CN/GR

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		1,977		850			
7 7/8"	4 1/2 I-80	11.6#		8,238		1386			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,586							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	6,662	8,110		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
6,662 8,110	0.36	212	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,662-8,110	PMP 7,661 BBLs SLICK H2O & 301,547 LBS 30/50 SD.

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

PROD

RECEIVED

JUN 08 2010

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/24/2010	TEST DATE: 5/1/2010	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,736	WATER – BBL: 167	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,400	CSG. PRESS. 2,250	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. 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.

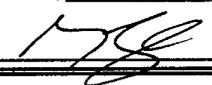
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,101				
MAHOGANY	1,892				
WASATCH	4,225	6,029			
MESAVERDE	6,029	8,256	(TD)		

35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDY LYTLE TITLE REGULATORY ANALYST
 SIGNATURE  DATE 6/2/2010

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023- 2K1S BLUE Spud Conductor: 1/7/2010 Spud Date: 2/3/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-2F PAD Rig Name No: ENSIGN 146/146, PROPETRO/
 Event: DRILLING Start Date: 1/6/2010 End Date: 2/25/2010
 Active Datum: RKB @5,452.00ft (above Mean Sea Leve UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/3/2010	5:00 - 11:00	6.00	DRLSUR	01	B	P		MOVE RIG,DRESS COND,INSTALL AIR BOWL,R/I BLOOY LINE,RIG UP,BUILD DITCH,R/U PUMPS BOOSTER,AIR COMP,SET DOG HOUSE,P/U Q507 12.25 BIT SERIAL # 8338 3RD RUN BIT 1.5 MM SERIAL # 8022
	11:00 - 12:00	1.00	DRLSUR	02	B	P		SPUD 12 1/4 SURFACE HOLE 02/03/2010 @ 11:00 DRLG F/ 44' TO 150'
	12:00 - 14:00	2.00	DRLSUR	06	A	P		L/D 6" TOLLS P/U SCRIBE & ORIENT MWD TOOLS
	14:00 - 0:00	10.00	DRLSUR	02	B	P		DRL W/ MWD F/ 150' TO 1380' (1230')123' HR,WOB=20.UP/DWN/RT=55/55/55,GPM=650-300 IN HEAVY LOSS ZONE,RPM=60,MM=90,ON/OFF PRESS=1100-900
2/4/2010	0:00 - 7:00	7.00	DRLSUR	02	B	P		DRL W/ MWD F/ 1380' TO 1995' (615')88'HR WOB=20,UP/DWN/ROT=63/63/63,GPM=350,DUE TO LOSSES RPM=60,MM=90,PP=1100-900
	7:00 - 8:00	1.00	DRLSUR	05	C	P		CIRC TO LDDS
	8:00 - 11:30	3.50	DRLSUR	06	D	P		LDDS,BHA,MWD TOOLS
	11:30 - 15:00	3.50	DRLSUR	12	C	P		HELD SAFETY MTNG. RUN 46 JOINTS 9 5/8 36# J-55 CSNG SHOE @ 1967.63' BAFFLE IN THE TOP OF SHOE JOINT @ 1953.28' RELEASE RIG TO THE BONANZA 1023-15P1BS @ 15:00
2/20/2010	15:00 - 22:00	7.00	DRLSUR	12	B	P		HELD SAFETY MTNG,PRESS TEST TO 2000 PSI,PUMP 140 BBLS H2O,PUMP 20 BBLS GEL WATER,PUMP 350 SX 15.8 # 1.15 YLD 5 GAL/SK TAIL CMNT DROP PLUG ON FLY DISP W/ 145 BBLS FRESH WATER 150 PSI LIFT NO RETURNS, BUMP PLUG W/ 450 PSI, TOP OUT 100SX OF 15.83- 1.15 YLD 5 GAL SK 4% CALC CMNT, WAIT 2 HRS PUMP 100 SX SAME CMNT, WAIT 1 HR PUMP 100SX SAME CMNT, WAIT 1 HR 100 SK SAME CMNT WAIT 1 HR PUMP 100 SX SAME CMNT NO RETURNS TO SURFACE WILL READY MIX W/ PETE MARTIN APP 3.5 YRDS OF READY MIX TO SURFACE
	0:00 - 2:00	2.00	DRLPRO	01	C	P		SKID RIG
	2:00 - 3:00	1.00	DRLPRO	14	A	P		N/U B.O.P'S
	3:00 - 7:00	4.00	DRLPRO	15	A	P		TEST B.O.P'S - PIPE - BLINDS - CHOKE - 2" - 4" VALVES - HCR 250 LOW - 5000 HIGH - ANNULAR 250 LOW - 2500 HIGH - CSG 1500 PSI
	7:00 - 10:30	3.50	DRLPRO	06	A	P		P/U DIR TOOLS - T.I.H & TAG CEMENT @ 1877
	10:30 - 12:00	1.50	DRLPRO	02	F	P		DRILL CEMENT & F.E
	12:00 - 16:00	4.00	DRLPRO	02	D	P		DIR DRILL F/ 2005 TO 2469 - 464' @ 116' FPH W/ 8.4 PPG MUD WT - RPM 45 - MRPM 104 - WOB 15/18 - TQ 6/3 - GPM 501
	16:00 - 16:30	0.50	DRLPRO	07	A	P		SER RIG
2/21/2010	16:30 - 0:00	7.50	DRLPRO	02	D	P		DIR DRILL F/ 2469 TO 3192 - 723' @ 96.4 FPH W/ 8.4 PPG MUD WT - RPM 45 - MRPM 104 - WOB 15/18 - TQ 7/4 - GPM 501
	0:00 - 16:30	16.50	DRLPRO	02	D	P		DIR DRILL F/ 3192 TO 5190 - 1998' @ 121.0 FPH W/ 8.4 PPG MUD WT - RPM 45 - MRPM 104 - WOB 15/18 - TQ 5/9 - GPM 501
	16:30 - 17:00	0.50	DRLPRO	07	A	P		SER RIG
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DIR DRILL F/ 5190 TO 5820 - 630' @ 90.0 FPH W/ 8.4 PPG MUD WT - RPM 45 - MRPM 104 - WOB 15/18 - TQ 6/10 - GPM 501

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023- 2K1S BLUE Spud Conductor: 1/7/2010 Spud Date: 2/3/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-2F PAD Rig Name No: ENSIGN 146/146, PROPETRO/
 Event: DRILLING Start Date: 1/6/2010 End Date: 2/25/2010
 Active Datum: RKB @5,452.00ft (above Mean Sea Level) UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/22/2010	0:00 - 14:00	14.00	DRLPRO	02	D	P		DIR DRILL F/ 5820 TO 7273 - 1453' @ 103.7 FPH W/ 10.6 PPG VIS 40 - RPM 45 MRPM 105 - WOB 15/18 - TQ 10/14 - GPM 501
	14:00 - 14:30	0.50	DRLPRO	07	A	P		SER RIG
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DIR DRILL F/ 7273 TO 7763 - 490' @ 51.5 FH W/ 11.5 PPG VIS 44 - RPM 45 - MRPM 105 - WOB 15/18 - TQ 14/10 - GPM 501
2/23/2010	0:00 - 6:00	6.00	DRLPRO	02	D	P		DIR DRILL - 7763 TO 7947 - 184' @ 30.6 FPH W/ 12.0 PPG W/ 42 VIS - 10% LCM - RPM 45 - MRPM 105 - WOB 18/22 - TQ 14/10 - GPM 501 -(MOTOR SPIKE PSI - MAX WOB 13K)
	6:00 - 14:30	8.50	DRLPRO	06	A	P		T.O.H F/ MUD MOTOR (PULL FIRST STAND W/ PUMPS - PULL OUT WITH PUMPS OR ROT. CONT T.O.H W/ 60-70 K OVER STRING WT. L/D DIR TOOLS MUD MOTOR -(MUD MOTOR WAS LOCKED UP)
	14:30 - 23:30	9.00	DRLPRO	06	A	P		P/U NEW MOTOR & BIT - T.I.H - WASH F/72' TO BTM - NO FILL - NO PROBLEMS ON TIH
	23:30 - 0:00	0.50	DRLPRO	03	E	P		DRILL F/7947' TO 7990' (43') MW 12.0, WOB 18, RPM 45, MM RPM 75, GPM 470
2/24/2010	0:00 - 3:00	3.00	DRLPRO	02	D	P		DRILL F/7990' TO 8256' (266' @ 88.7fph) MW 12.2, VIS 42, LCM 8%, WOB 18, RPM 45, MM RPM 75, GPM 470
	3:00 - 4:30	1.50	DRLPRO	05	C	P		CIRC
	4:30 - 6:00	1.50	DRLPRO	06	E	P		WIPER TRIP 10 STDS TO 7356'
	6:00 - 7:30	1.50	DRLPRO	05	C	P		CIRC
	7:30 - 8:00	0.50	DRLPRO	10	B	P		DROP SINGLESLOT SURVEY
	8:00 - 14:30	6.50	DRLPRO	06	B	P		POOH F/LOGS - L/DN MONEL & MM - RETRIEVE SINGLESLOT SURVEY
	14:30 - 15:00	0.50	DRLPRO	14	B	P		RETRIEVE WEARBUSHING
	15:00 - 19:30	4.50	EVALPR	11	D	P		HPJSM, R/UP BAKER ATLAS, RUN TRIPLE COMBO TO LOGGERS TD @ 8230'
2/25/2010	19:30 - 0:00	4.50	CSG	12	C	P		HPJSM - R/UP FRANKS & RUN 194 JTS & 1 MARKER 4.5" I-80 11.60 BTC PROD CASING - FLOAT SHOE @ 8238 - FLOAT COLLAR 8193'
	0:00 - 3:00	3.00	CSG	12	C	P		HPJSM - R/UP FRANKS & RUN 194 JTS & 1 MARKER 4.5" I-80 11.60 BTC PROD CASING - FLOAT SHOE @ 8238 - FLOAT COLLAR 8193'
	3:00 - 4:30	1.50	CSG	05	D	P		CIRC
	4:30 - 7:30	3.00	CSG	12	E	P		HPJSM, R/UP BJ & CMT 4.5" PROD CASING - TEST LINES 4000 PSI, PUMPED 40 BBLs FRESH WATER, 886 SKS LEAD 12.2 PPG 2.17 YIELD, 500 SKS TAIL 14.3PPG 1.31 YIELD, DROPPED PLUG & DISPLACED W/127.7 BBLs FRESH WATER W/0.1 gal/bbl CLAYFIX II & .01 gal/bbl ALDACIDE G @ 2056 PSI, BUMPED PLUG @ 2660 PSI FLOATS HELD W/1.5 BBL RETURN - GOOD RETURNS DURING CMT JOB W/47 BBLs CEMENT TO SURFACE
	7:30 - 9:59	2.48	DRLPRO	14	A	P		WASH OUT BOP - L/OUT LANDING JT - N/DN BOPE - CLEAN RIG TANKS - TRANSFER 1200 BBLs MUD TO SECONDARY TANKS - RELEASE RIG @ 10:00 2/25/10

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023- 2K1S BLUE	Spud Conductor: 1/7/2010	Spud Date: 2/3/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-2F PAD	Rig Name No: ENSIGN 146/146, PROPETRO/
Event: DRILLING	Start Date: 1/6/2010	End Date: 2/25/2010
Active Datum: RKB @5,452.00ft (above Mean Sea Level) UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:59 - 10:00	0.02	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: 44 Cement sx used: 0</p> <p>SPUD DATE/TIME: 2/3/2010 11:00</p> <p>SURFACE HOLE: Surface From depth:44 Surface To depth: 1,995 Total SURFACE hours: 18.00 Surface Casing size:9 5/8 # of casing joints ran: 46 Casing set MD:1,967.0 # sx of cement:850 Cement blend (ppg:):15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 0 Describe cement issues: 5 TOP OUTS Describe hole issues: FLUID LOSES</p> <p>PRODUCTION: Rig Move/Skid start date/time: 2/20/2010 0:00 Rig Move/Skid finish date/time:2/20/2010 2:00 Total MOVE hours: 2.0 Prod Rig Spud date/time: 2/20/2010 10:30 Rig Release date/time: 2/25/2010 10:00 Total SPUD to RR hours: 119.5 Planned depth MD 8,256 Planned depth TVD 8,100 Actual MD: 8,256 Actual TVD: 8,100 Open Wells \$: \$560,544 AFE\$: \$629,080 Open wells \$/ft:\$67.90</p> <p>PRODUCTION HOLE: Prod. From depth: 1,995 Prod. To depth:8,256 Total PROD hours: 68 Production Casing size: 4 1/2 # of casing joints ran: 194 Casing set MD:8,238.0 # sx of cement:1,386 Cement blend (ppg:):LEAD 12.2, TAIL 14.3 Cement yield (ft3/sk): LEAD 2.17, TAIL 1.31 Est. TOC (Lead & Tail) or 2 Stage : 6000 Describe cement issues: 47 BBLS CEMENT TO SURFACE Describe hole issues: LOGS WENT TO 8230'</p> <p>DIRECTIONAL INFO: KOP: 2,103 Max angle: 24.63 Departure: 849.93 Max dogleg MD: 3.37</p>

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023- 2K1S BLUE Spud Conductor: 1/7/2010 Spud Date: 2/3/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-2F PAD Rig Name No: MILES-GRAY 1/1
 Event: COMPLETION Start Date: 4/19/2010 End Date: 4/23/2010
 Active Datum: RKB @5,452.00ft (above Mean Sea Leve) UWI: SE/NW/0/10/SI/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/16/2010	7:00 - 7:30	0.50	COMP	48		P		HSM. PERFORATING ON A PAD WELL.
	7:30 - 10:30	3.00	COMP	37	C	P		MIRU CASED HOLE SOLUTIONS TO PERFORATE. PU 3 1/8" EXP GRNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING, RIH PERF 8,108'-10' 3SPF, 7,990'-94' 4SPF, 7,910'-14' 4SPF, 7,870'-72' 3SPF, 44 HOLES. POOH W / WIRE LINE. SWI SDFWE.
4/19/2010	7:00 - 7:30	0.50	COMP	48		P		HSM. FRACING & PERFORATING ON A PAD WELL.
	7:30 - 7:30	0.00	COMP					STG 1) WHP 540 PSI, BRK 4,252 PSI @ 5.8 BPM, ISIP 2,244 PSI, FG .71. PUMP 100 BBLS @ 53.0 BPM @ 4,175 PSI = 100% HOLES OPEN. MP 5,518 PSI, MR 54.1 BPM, AP 3,887 PSI, AR 51.6 BPM, ISIP 2,226 PSI, FG .71, NPI 324 PSI. PUMP 1,603 BBLS SW, & 54,801 LBS 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP PUMPED 59,801 LBS.
	12:48 - 13:10	0.37	COMP	36	B	P		STG 2) PU HALLIBURTON CBP & 3 1/8" EXP GNS, 23, GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 7,742' & PERF 7,708'-12' 4SPF, 7,686'-90' 4SPF, 7,626'-28' 4SPF, 40 HOLES. WHP 1,800 PSI, BRK 2,945 PSI @ 6.2 BPM, ISIP 2,233 PSI, FG .74. PUMP 100 BBLS @ 51.1 BPM @ 4,770 PSI = 90% HOLES OPEN. MP 5,518 PSI, MR 54.1 BPM, AP 3,887 PSI, AR 51.6 BPM, ISIP 2,226 PSI, FG .71, NPI 324 PSI. PUMP 1,524 BBLS SW, & 50,875 LBS 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP PUMPED 55,875 LBS.
	14:55 - 16:05	1.17	COMP	36	B	P		STG 3) PU HALLIBURTON CBP & 3 1/8" EXP GNS, 23, GRM, .36 HOLES, 90 & 120 DEG PHASING & RIH. SET CBP @ 7,492' & PERF 7,458'-62' 3SPF, 7,438'-39' 4SPF, 7,400'-02' 4SPF, 7,372'-74' 4SPF, 7,304'-07' 4SPF, 44 HOLES. WHP 650 PSI, BRK 4,346 PSI @ 5.6 BPM, ISIP 2,362 PSI, FG .75. PUMP 100 BBLS @ 52.0 BPM @ 3,900 PSI = 100% HOLES OPEN. MP 4,853 PSI, MR 60.7 BPM, AP 3,770 PSI, AR 53.5 BPM, ISIP 1,649 PSI, FG .66, NPI -713 PSI. PUMP 2,911 BBLS SW, & 114,166 LBS 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP PUMPED 119,166 LBS. SWI SDFN
4/20/2010	6:30 - 7:00	0.50	COMP	48		P		HSM. FRACING & PERFORATING ON A PAD WELL.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023- 2K1S BLUE	Spud Conductor: 1/7/2010	Spud Date: 2/3/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-2F PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 4/19/2010	End Date: 4/23/2010
Active Datum: RKB @5,452.00ft (above Mean Sea Level) UWI: SE/NW/0/10/SI/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:55 - 8:20	0.42	COMP	36	B	P		STG 4) PU HALLIBURTON CBP & 3 1/8" EXP GNS, 23, GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 7,194' & PERF 7,162'-64' 4SPF, 7,112'-14' 4SPF, 7,080'-82' 4SPF, 7,026'-28' 4SPF, 6,974'-76' 4SPF, 40 HOLES. WHP 1,000 PSI, BRK 2,565 PSI @ 6.0 BPM, ISIP 1,932 PSI, FG .71. PUMP 100 BBLS @ 54.0 BPM @ 3,760 PSI = 100% HOLES OPEN. MP 5,088 PSI, MR 57 BPM, AP 3,186 PSI, AR 54.3 BPM, ISIP 1,932 PSI, FG .69, NPI -106 PSI. PUMP 1,360 BBLS SW, & 49,414 LBS 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP PUMPED 54,414 LBS.
	10:24 - 11:00	0.60	COMP	36	B	P		STG 5) PU HALLIBURTON CBP & 3 1/8" EXP GNS, 23, GRM, .36 HOLES, 90 & 120 DEG PHASING & RIH. SET CBP @ 6,864' & PERF 6,830'-34' 3SPF, 6,782'-84' 4SPF, 6,734'-38' 4SPF, 6,662'-64' 4SPF, 4 HOLES. WHP 371 PSI, BRK 3,428 PSI @ 5.4 BPM, ISIP 1,949 PSI, FG .72. PUMP 100 BBLS @ 55.0 BPM @ 3,890 PSI = 100% HOLES OPEN. MP 5,625 PSI, MR 56.9 BPM, AP 3,539 PSI, AR 54.9 BPM, ISIP 1,803 PSI, FG .70, NPI -146 PSI. PUMP 754 BBLS SW, & 23,223 LBS 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP PUMPED 28,223 LBS.
	11:00 - 12:00	1.00	COMP	34	I	P		KILL PLG) PU 4 1/2" HALLIBURTON CBP & RIH SET CBP @ 6,612'.
4/21/2010	13:00 - 17:00	4.00	COMP	30	A	P		POOH W / WIRE LINE. RDMO OF WELL. MIRU, N/D FRAC VALVE, N/U BOPS, TALLY TBG ON TRAILER, P/U 3 7/8" BIT AND POBS, TIH W/ 2 3/8" TBG, TO @ 4000', SDFN
4/22/2010	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023- 2K1S BLUE Spud Conductor: 1/7/2010 Spud Date: 2/3/2010
 Project: UTAH-UINTAH Site: BONANZA 1023-2F PAD Rig Name No: MILES-GRAY 1/1
 Event: COMPLETION Start Date: 4/19/2010 End Date: 4/23/2010
 Active Datum: RKB @5,452.00ft (above Mean Sea Level) UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 14:00	6.75	COMP	44	C	P		<p>TIH W/ 2 3/8" TBG, TAG SAND @ 6587', R/U POWER SWIVEL, PRESSURE TEST BOPS AND CSG TO 3000#, ESTB CIRC DN TBG OUT CSG, C/O SAND FROM 6587' TO 6612',</p> <p>(DRLG CBP #1) 6612 , DRILL OUT HALLIBURTON 8K CBP IN 3 MIN, 300 # DIFF, RIH TAG @ 6834 ', C/O 30 ' SAND, FCP = 50 #,</p> <p>(DRLG CBP #2) 6864' , DRILL OUT HALLIBURTON 8K CBP IN 3 MIN, 200 # DIFF, RIH TAG @ 7164 ', C/O 30 ' SAND, FCP = 100 #,</p> <p>(DRLG CBP #3) 7194' , DRILL OUT HALLIBURTON 8K CBP IN 2 MIN, 200 # DIFF, RIH TAG @ 7462 ', C/O 30' SAND, FCP = 150 #,</p> <p>(DRLG CBP #4) 7492', DRILL OUT HALLIBURTON 8K CBP IN 3 MIN, 200 # DIFF, RIH TAG @ 7712 ', C/O 30' SAND, FCP = 150 #,</p> <p>(DRLG CBP #5) 7742 , DRILL OUT HALLIBURTON 8K CBP IN 3 MIN, 200 # DIFF, RIH TAG SAND @ 8114', C/O 81' SAND TO PBTD @ 8195 ', FCP = 200 #,</p> <p>CIRC WELL CLEAN, R/D POWER SEIVEL, POOH LAY DN 20 JTS 2 3/8" TBG ON TRAILER, LAND TBG W/ HANGER W/ 240 JTS 2 3/8" L-80 TBG, EOT = 7586.27', N/D BOPS, DROP BALL DN TBG, N/U WELL HEAD, PUMP OFF BIT @ 1200 #, WAIT 30 MIN FOR BIT TO FALL TO BTM, OPEN WELL TO TK, FTP = 400 #, SICP = 1000 #, TURN WELL OVER TO FBC W/ 6111 BBLs WTR LTR, R/D RIG MOVE OVER TO YELLOW WELL,</p> <p>KB = 15.00' HANGER 7 1/16" 5K = .83' 240 JTS 2 3/8" L-80 TBG = 7568.24' XN-NIPPLE 1.875, POBS = 2.20'</p> <p>_____ EOT = 7586.27'</p> <p>316 JTS 2 3/8" L-80 TBG DELV. 240 JTS 2 3/8" L-80 TBG LANDED 76 JTS 2 3/8" L-80 TBG RETURNED 7 AM FLBK REPORT: CP 1200#, TP 1150#, 20/64" CK, 45 BWPH, 1/2 CUP SAND, - GAS TTL BBLs RECOVERED: 3090 BBLs LEFT TO RECOVER: 4871 WELL TURNED TO SALES @ 1200 HR ON 4/24/09 - 800 MCFD, 816 BWPD, CP 1650#, FTP 1300#, CK 20/64"</p>
4/24/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1200#, TP 1150#, 20/64" CK, 45 BWPH, 1/2 CUP SAND, - GAS TTL BBLs RECOVERED: 3090 BBLs LEFT TO RECOVER: 4871 WELL TURNED TO SALES @ 1200 HR ON 4/24/09 - 800 MCFD, 816 BWPD, CP 1650#, FTP 1300#, CK 20/64"</p>
	12:00 -		PROD	50				<p>WELL TURNED TO SALES @ 1200 HR ON 4/24/09 - 800 MCFD, 816 BWPD, CP 1650#, FTP 1300#, CK 20/64"</p>
4/25/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2550#, TP 1400#, 20/64" CK, 33 BWPH, 1/4 CUP SAND, 1104 GAS TTL BBLs RECOVERED: 3968 BBLs LEFT TO RECOVER: 3993</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023- 2K1S BLUE	Spud Conductor: 1/7/2010	Spud Date: 2/3/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-2F PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 4/19/2010	End Date: 4/23/2010
Active Datum: RKB @5,452.00ft (above Mean Sea Level) UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/26/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2350#, TP 1425#, 20/64" CK, 25 BWPH, TSP SAND, 1588 GAS TTL BBLs RECOVERED: 4638 BBLs LEFT TO RECOVER: 3323
4/27/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2100#, TP 1350#, 20/64" CK, 20 BWPH, TRACE SAND, 1655 GAS TTL BBLs RECOVERED: 5163 BBLs LEFT TO RECOVER: 2798

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	BONANZA 1023- 2K1S BLUE	Wellbore No.	OH
Well Name	BONANZA 1023-2K1S	Common Name	BONANZA 1023-2K1S
Project	UTAH-UINTAH	Site	BONANZA 1023-2F PAD
Vertical Section Azimuth	153.83 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	2/3/2010	UWI	SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0
Active Datum	RKB @5,452.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	APC
Started	2/3/2010	Ended	
Tool Name	MWD	Engineer	Anadarko

2.1.1 Tie On Point

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

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/3/2010	Tie On	10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/2010	NORMAL	169.00	0.65	300.26	169.00	0.45	-0.78	-0.75	0.41	0.41	0.00	300.26
	NORMAL	259.00	0.61	236.88	258.99	0.45	-1.62	-1.12	0.74	-0.04	-70.42	-124.63
	NORMAL	349.00	0.24	317.73	348.99	0.33	-2.15	-1.24	0.69	-0.41	89.83	157.49
	NORMAL	439.00	0.80	297.75	438.99	0.76	-2.83	-1.93	0.64	0.62	-22.20	-28.10
	NORMAL	519.00	0.18	69.06	518.98	1.06	-3.21	-2.37	1.16	-0.77	164.14	171.63
	NORMAL	609.00	0.31	213.58	608.98	0.91	-3.21	-2.24	0.52	0.14	160.58	157.41
	NORMAL	699.00	0.20	322.43	698.98	0.83	-3.44	-2.27	0.47	-0.12	120.94	153.19
	NORMAL	789.00	0.27	190.36	788.98	0.75	-3.58	-2.25	0.48	0.08	-146.74	-152.25
	NORMAL	879.00	0.38	12.98	878.98	0.83	-3.55	-2.31	0.72	0.12	-197.09	-178.47
	NORMAL	969.00	0.29	352.88	968.98	1.35	-3.51	-2.76	0.16	-0.10	-22.33	-137.21
	NORMAL	1,059.00	0.36	15.56	1,058.98	1.85	-3.46	-3.18	0.16	0.08	25.20	73.10
	NORMAL	1,149.00	0.83	102.80	1,148.98	1.98	-2.75	-2.99	0.99	0.52	96.93	111.11
	NORMAL	1,239.00	1.11	91.68	1,238.96	1.81	-1.24	-2.17	0.37	0.31	-12.36	-39.56
	NORMAL	1,329.00	0.50	31.59	1,328.95	2.11	-0.16	-1.97	1.07	-0.68	-66.77	-153.27
	NORMAL	1,419.00	0.81	25.87	1,418.95	3.02	0.32	-2.57	0.35	0.34	-6.36	-14.78
	NORMAL	1,509.00	0.96	4.43	1,508.94	4.35	0.65	-3.61	0.40	0.17	-23.82	-76.60
	NORMAL	1,599.00	0.54	10.09	1,598.93	5.51	0.79	-4.60	0.47	-0.47	6.29	172.82
	NORMAL	1,689.00	0.86	330.82	1,688.92	6.52	0.53	-5.62	0.62	0.36	-43.63	-76.99
	NORMAL	1,779.00	0.34	206.45	1,778.92	6.87	0.08	-6.13	1.21	-0.58	-138.19	-165.06

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/4/2010	NORMAL	1,869.00	0.46	204.65	1,868.92	6.31	-0.19	-5.74	0.13	0.13	-2.00	-6.88
	NORMAL	1,944.00	0.68	244.47	1,943.91	5.84	-0.71	-5.56	0.59	0.29	53.09	81.86
2/20/2010	NORMAL	2,051.00	0.75	202.01	2,050.91	4.92	-1.55	-5.10	0.49	0.07	-39.68	-104.05
	NORMAL	2,142.00	2.19	169.43	2,141.88	2.66	-1.45	-3.02	1.77	1.58	-35.80	-47.11
	NORMAL	2,233.00	4.50	172.56	2,232.71	-2.59	-0.67	2.03	2.55	2.54	3.44	6.08
	NORMAL	2,323.00	7.06	161.81	2,322.25	-11.35	1.51	10.86	3.08	2.84	-11.94	-28.33
	NORMAL	2,414.00	9.89	156.14	2,412.25	-23.81	6.42	24.20	3.24	3.11	-6.23	-19.27
	NORMAL	2,505.00	12.50	153.68	2,501.51	-39.79	13.95	41.86	2.92	2.87	-2.70	-11.58
	NORMAL	2,596.00	14.44	153.31	2,590.00	-58.76	23.41	63.06	2.13	2.13	-0.41	-2.72
	NORMAL	2,686.00	17.00	154.81	2,676.63	-80.69	34.05	87.44	2.88	2.84	1.67	9.74
	NORMAL	2,777.00	19.31	155.81	2,763.10	-106.46	45.88	115.78	2.56	2.54	1.10	8.16
	NORMAL	2,868.00	22.05	152.76	2,848.23	-135.38	59.87	147.90	3.23	3.01	-3.35	-22.89
	NORMAL	2,958.00	23.94	152.56	2,931.07	-166.61	76.02	183.05	2.10	2.10	-0.22	-2.46
	NORMAL	3,049.00	23.69	151.68	3,014.32	-199.08	93.20	219.78	0.48	-0.27	-0.97	-125.53
	NORMAL	3,140.00	24.25	153.18	3,097.48	-231.86	110.30	256.74	0.91	0.62	1.65	48.11
	NORMAL	3,230.00	24.63	153.06	3,179.41	-265.07	127.14	293.97	0.43	0.42	-0.13	-7.50
	NORMAL	3,321.00	24.31	154.06	3,262.24	-298.82	143.93	331.66	0.58	-0.35	1.10	128.14
	NORMAL	3,412.00	24.38	154.06	3,345.15	-332.55	160.33	369.17	0.08	0.08	0.00	0.00
	NORMAL	3,502.00	24.44	154.81	3,427.10	-366.10	176.38	406.37	0.35	0.07	0.83	79.39
	NORMAL	3,593.00	22.63	154.81	3,510.53	-398.98	191.85	442.70	1.99	-1.99	0.00	180.00
	NORMAL	3,684.00	21.75	155.81	3,594.79	-430.21	206.21	477.05	1.05	-0.97	1.10	157.23
2/21/2010	NORMAL	3,774.00	20.71	153.44	3,678.68	-459.65	220.16	509.63	1.50	-1.16	-2.63	-141.57
	NORMAL	3,865.00	19.75	152.68	3,764.07	-487.71	234.41	541.10	1.09	-1.05	-0.84	-165.05
	NORMAL	3,955.00	20.81	156.93	3,848.49	-515.93	247.66	572.26	2.02	1.18	4.72	56.27
	NORMAL	4,046.00	21.81	159.81	3,933.27	-546.67	259.82	605.22	1.59	1.10	3.16	47.65
	NORMAL	4,136.00	18.88	157.56	4,017.65	-575.82	271.16	636.39	3.37	-3.26	-2.50	-166.10
	NORMAL	4,227.00	18.06	156.68	4,103.96	-602.39	282.36	665.17	0.95	-0.90	-0.97	-161.64
	NORMAL	4,318.00	16.48	155.30	4,190.85	-627.07	293.34	692.16	1.79	-1.74	-1.52	-166.12
	NORMAL	4,408.00	15.13	154.56	4,277.45	-649.27	303.72	716.67	1.52	-1.50	-0.82	-171.86
	NORMAL	4,499.00	13.88	154.33	4,365.55	-669.84	313.55	739.46	1.38	-1.37	-0.25	-177.47
	NORMAL	4,590.00	13.06	154.56	4,454.04	-688.96	322.69	760.65	0.90	-0.90	0.25	176.37
	NORMAL	4,680.00	12.19	154.81	4,541.87	-706.74	331.11	780.32	0.97	-0.97	0.28	176.53
	NORMAL	4,771.00	11.38	155.56	4,630.95	-723.61	338.91	798.90	0.91	-0.89	0.82	169.66
	NORMAL	4,861.00	9.97	151.32	4,719.39	-738.53	346.32	815.56	1.79	-1.57	-4.71	-152.95
	NORMAL	4,952.00	9.00	140.06	4,809.15	-750.90	354.67	830.35	2.30	-1.07	-12.37	-123.08
	NORMAL	5,043.00	7.38	136.06	4,899.22	-760.56	363.30	842.83	1.89	-1.78	-4.40	-162.59
	NORMAL	5,133.00	5.63	141.56	4,988.64	-768.18	370.06	852.65	2.06	-1.94	6.11	163.12
	NORMAL	5,224.00	5.31	142.81	5,079.23	-775.04	375.38	861.14	0.38	-0.35	1.37	160.20
	NORMAL	5,315.00	3.38	142.93	5,169.96	-780.53	379.54	867.91	2.12	-2.12	0.13	179.79
	NORMAL	5,405.00	1.47	139.90	5,259.87	-783.53	381.88	871.63	2.13	-2.12	-3.37	-177.67
	NORMAL	5,496.00	1.69	140.18	5,350.84	-785.45	383.49	874.07	0.24	0.24	0.31	2.15
	NORMAL	5,587.00	0.63	292.93	5,441.83	-786.29	383.89	875.00	2.49	-1.16	167.86	172.69
	NORMAL	5,678.00	1.31	319.81	5,532.82	-785.30	382.76	873.61	0.88	0.75	29.54	47.72
	NORMAL	5,768.00	1.06	319.93	5,622.80	-783.88	381.56	871.80	0.28	-0.28	0.13	179.49
	NORMAL	5,859.00	0.75	307.31	5,713.79	-782.87	380.54	870.45	0.40	-0.34	-13.87	-153.46
	NORMAL	5,950.00	1.63	321.93	5,804.77	-781.49	379.27	868.65	1.02	0.97	16.07	26.44
	NORMAL	6,040.00	1.31	321.81	5,894.74	-779.68	377.85	866.40	0.36	-0.36	-0.13	-179.51
	NORMAL	6,131.00	0.75	310.18	5,985.72	-778.47	376.75	864.83	0.65	-0.62	-12.78	-165.28
2/22/2010	NORMAL	6,221.00	1.81	320.81	6,075.70	-776.99	375.40	862.91	1.20	1.18	11.81	17.98
	NORMAL	6,312.00	1.31	316.56	6,166.66	-775.12	373.78	860.51	0.56	-0.55	-4.67	-169.09
	NORMAL	6,403.00	1.03	297.08	6,257.64	-774.00	372.33	858.87	0.53	-0.31	-21.41	-134.62
	NORMAL	6,493.00	0.63	275.43	6,347.63	-773.58	371.12	857.96	0.56	-0.44	-24.06	-152.39
	NORMAL	6,584.00	0.38	148.43	6,438.63	-773.79	370.78	858.00	1.00	-0.27	-139.56	-160.53
	NORMAL	6,675.00	0.69	131.18	6,529.63	-774.41	371.35	858.80	0.38	0.34	-18.96	-36.26
	NORMAL	6,765.00	0.69	137.71	6,619.62	-775.17	372.12	859.82	0.09	0.00	7.26	93.26
	NORMAL	6,856.00	0.56	120.56	6,710.62	-775.80	372.88	860.72	0.25	-0.14	-18.85	-133.17
	NORMAL	6,946.00	0.69	116.06	6,800.61	-776.26	373.74	861.52	0.15	0.14	-5.00	-22.95

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/22/2010	NORMAL	7,037.00	1.03	125.06	6,891.60	-776.97	374.90	862.67	0.40	0.37	9.89	26.21
	NORMAL	7,128.00	1.26	125.23	6,982.58	-778.02	376.39	864.26	0.25	0.25	0.19	0.93
	NORMAL	7,218.00	1.75	135.56	7,072.55	-779.57	378.16	866.44	0.62	0.54	11.48	34.20
	NORMAL	7,309.00	1.56	158.18	7,163.51	-781.71	379.59	868.99	0.74	-0.21	24.86	117.32
	NORMAL	7,400.00	1.69	148.31	7,254.48	-784.00	380.76	871.56	0.34	0.14	-10.85	-70.07
	NORMAL	7,490.00	0.31	201.93	7,344.46	-785.36	381.37	873.05	1.70	-1.53	59.58	170.59
	NORMAL	7,581.00	0.63	200.18	7,435.46	-786.06	381.10	873.56	0.35	0.35	-1.92	-3.44
	NORMAL	7,672.00	0.88	175.56	7,526.45	-787.22	380.98	874.55	0.44	0.27	-27.05	-65.12
	NORMAL	7,763.00	0.91	165.06	7,617.44	-788.62	381.22	875.91	0.18	0.03	-11.54	-84.91
	NORMAL	7,853.00	0.75	162.31	7,707.43	-789.87	381.59	877.19	0.18	-0.18	-3.06	-167.39
2/23/2010	NORMAL	7,985.00	0.63	166.18	7,839.42	-791.40	382.02	878.76	0.10	-0.09	2.93	160.70
2/24/2010	NORMAL	8,220.00	0.40	237.66	8,074.41	-793.09	381.64	880.11	0.27	-0.10	30.42	142.98
	NORMAL	8,256.00	0.40	237.66	8,110.41	-793.22	381.42	880.13	0.00	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
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 1023-2K1S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000
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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 02 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/6/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text" value="Wellhead"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: 04/06/2011

By: *Derek Duff*

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

WORKORDER # 88119308

Name: **BONANZA 1023-2K1S - 1023-2F PAD** 4/5/11
 Surface Location: SENW Sec. 2, T10S, R23E
 Uintah County, UT

API: 4304750382 LEASE#: ML-47062

ELEVATIONS: 5438' GL 5451' KB

TOTAL DEPTH: 8256' PBD: 8195'

SURFACE CASING: 9 5/8", 36# IJ-55 @ 1977'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 8238'
 No CBL on file

PERFORATIONS: Mesaverde 6662' - 8110'

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

GEOLOGICAL TOPS:

1101' Green River
 1892' Mahogany
 4225' Wasatch
 6029' Mesaverde

BONANZA 1023-2K1S - WELLHEAD REPLACEMENT PROCEDURE -

PREP-WORK PRIOR TO MIRU:

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

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~6612'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOOH.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6562. Clean out to PBTD (8195').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

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

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6562. Clean out to PBTD (8195').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

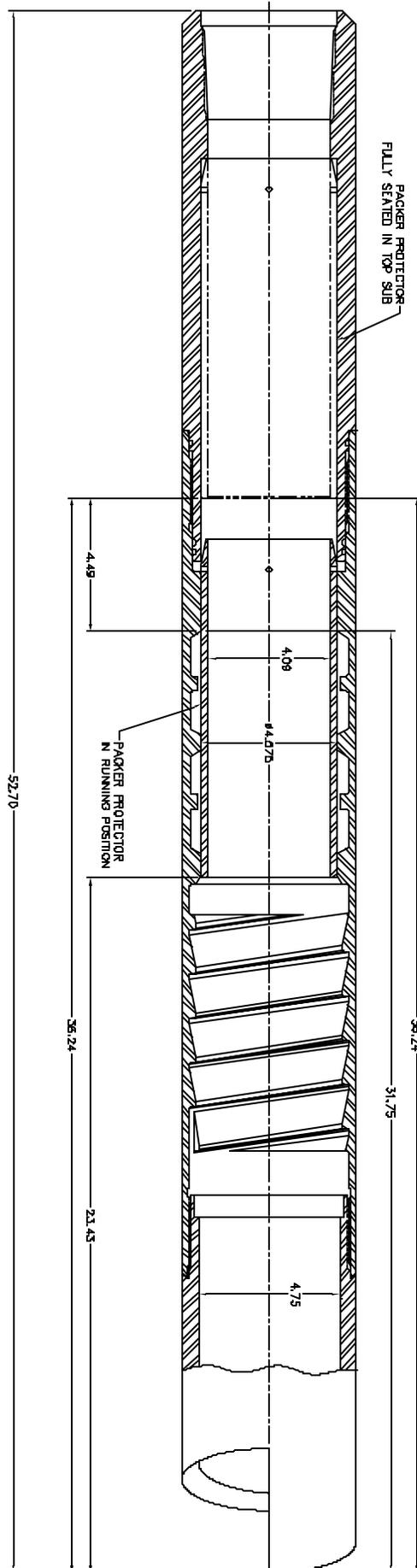


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

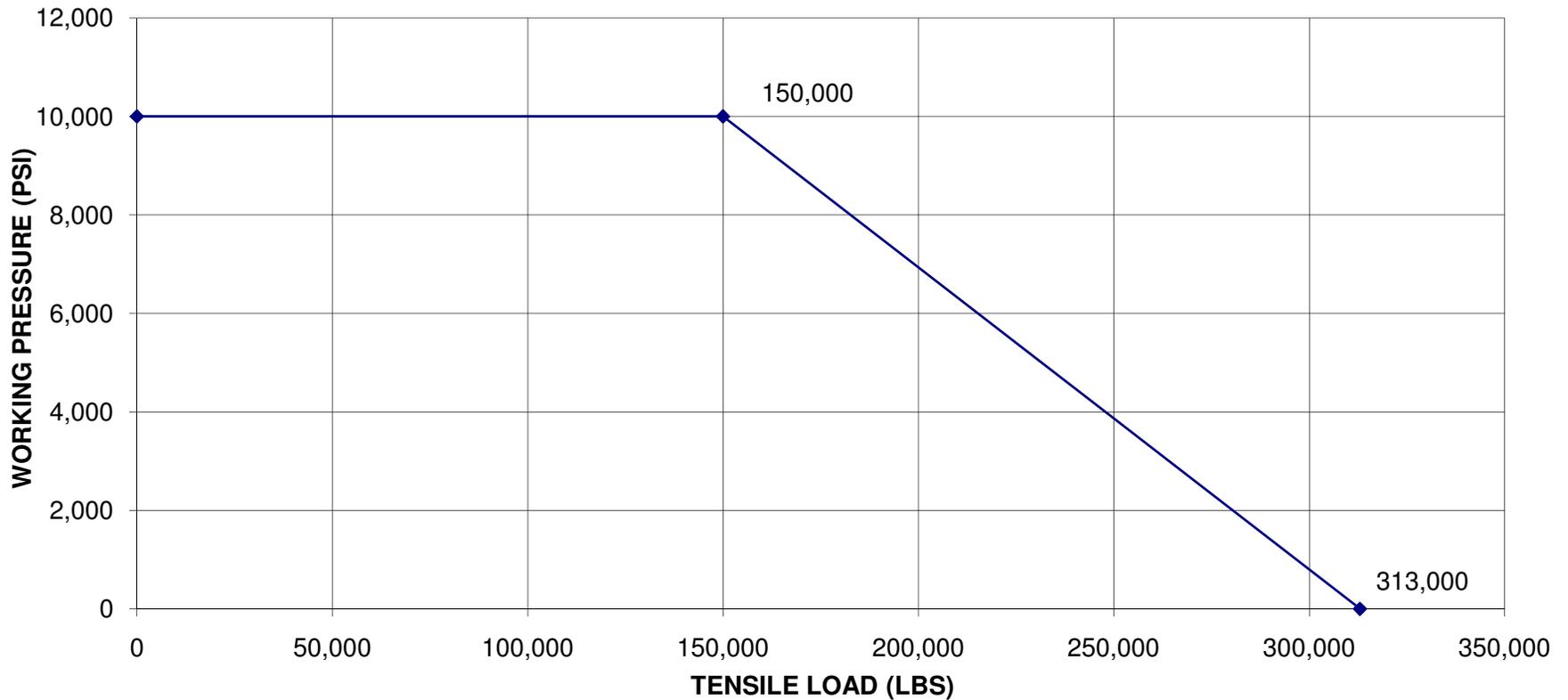
1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector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

Follow recommended Make-Up Torque as provided in chart.



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

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



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

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

DATA BY SLS 11/16/2009

RECEIVED Apr. 06, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47062
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 1023-2K1S	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503820000	
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: 2115 FNL 1680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 02 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/26/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Wellhead Repair"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE OPERATOR HAS CONCLUDED WELLHEAD/CASING REPAIRS ON THE SUBJECT WELL LOCATION. PLEASE SEE THE ATTACHED CHRONOLOGICAL HISTORY FOR DETAILS OF THE OPERATIONS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 5/26/2011	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023- 2K1S BLUE		Spud Conductor: 1/7/2010		Spud Date: 2/3/2010				
Project: UTAH-UINTAH		Site: BONANZA 1023-2F PAD		Rig Name No: MILES 2/2				
Event: WELL WORK EXPENSE		Start Date: 5/11/2011		End Date: 5/12/2011				
Active Datum: RKB @5,452.00ft (above Mean Sea Leve		UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/11/2011	7:00 - 7:30	0.50	MAINT	48		P		TRIPPING TBG
	7:30 - 15:00	7.50	MAINT	34				MIRU,400# CSG, 100# TBG KILL WELL, 20 BBLS T-MAC TBG, 20 BBLS CSG, NDWH, NU BOP'S, UNLAND TBG, POOH TBG STD BACK 120 STANDS,NU CUTTERS, PU GAUGE RING, TIH TO 6622', POOH, PU 10K CBP, TIH SET AT 6612', POOH PICK UP BAILER, BAIL 4 SX CEMENT ON PLUG, RD CUTTERS, TIH 4 STANDS, 450', SWIFN
5/12/2011	7:00 - 7:30	0.50	MAINT	48		P		TRIPPING TBG

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023- 2K1S BLUE			Spud Conductor: 1/7/2010			Spud Date: 2/3/2010		
Project: UTAH-UINTAH			Site: BONANZA 1023-2F PAD			Rig Name No: MILES 2/2		
Event: WELL WORK EXPENSE			Start Date: 5/11/2011			End Date: 5/12/2011		
Active Datum: RKB @5,452.00ft (above Mean Sea Leve			UWI: SE/NW/0/10/S/23/E/2/0/0/26/PM/N/2,115.00/W/0/1,680.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 19:00	11.50	MAINT					IH 4 STDS, ROLL CSG TO REMOVE CONDENSATE, ND BOP'S, NDWH, CUT CSG 7' DWN, PU OVERSHOT, LATCH ON CSG, TORQUE TO 5000#, 2 TURNS, BACK OFF 1 JT, PU PUP AND 1JT CSG, STING IN CSG, TORQUE TO 7000#, 17 TURNS, PRESSURE TEST 1000# 15 MIN, 3500# 30 MIN, C/O DRESS CSG WEATHERFORD TEST, NU TBG HEAD, NU BOP'S, PU TBG RIH WITH 208 JTS TBG 5553", TAG CEMENT, BREAK CIRC, DRILL CEMENT, CBP. TIH 259 JTS 8185, LAY DWN 19 JTS, TO 7582' RU FOAM TECH, POBS 1500#, BREAK CIRC, RD FOAM TECH, BROACH TO XNSN, LAND TBG, ND BOP'S, NUWH, SWIFN JTS RAN 240 JTS 7564.64' KB 15.00' HANGER .83' XNSN 1.875" 2.20' EOT 7582.67' PBSD 8185.00' WTR PUMPED 260 BBLs WTR RCVD 210 BBLs CALLED CDC 6:15 PM BECKY

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	SEW		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

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML 47062

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Bonanza 1023-2K1S

2. NAME OF OPERATOR:
KERR-McGEE OIL & GAS ONSHORE LP

9. API NUMBER:
4304750382

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY **DENVER** STATE **CO** ZIP **80127**

PHONE NUMBER:
(720) 929-6100

10. FIELD AND POOL, OR WILDCAT:
Natural Buttes

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **2115 FNL 1680 FNL SENW**

COUNTY: **UINTAH**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 2 10S 23E S**

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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 2/4/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: DRILL REPORT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

DRILL REPORT

MIRU PROPETRO AIR RIG ON 02/03/2010. DRILLED 12.25" SURFACE HOLE TO 1995'. RAN 9.625 36# J-55 SURFACE CASING. TEST LINES TO 2000 PSI, PUMP 140 BBLs H2O, PUMP 20 BBLs GEL WATER, PUMP 350 SX 15.8 # 1.15 YLD 5 GAL/SK CLASS G PREM LITE TAIL CMNT. DROP PLUG ON FLY DISP W/ 145 BBLs FRESH WATER 150 PSI LIFT NO RETURNS, BUMP PLUG W/ 450 PSI, TOP OUT 100 SX OF 15.8 1.15 YLD 5 GAL SK 4% CALC PREM LITE CMNT, WAIT 2 HRS PUMP 100 SX SAME CMNT, WAIT 1 HR PUMP 100 SX SAME CEMENT, WAIT 1 HR PUMP 100 SX SAME CMNT, WAIT 1 HR PUMP 100 SX SAME CEMENT. NO RETURNS TO SURFACE, WILL READY MIX W/ PETE MARTIN APP 3.5 YDS OF READY MIX TO SURFACE.

WORT.

NAME (PLEASE PRINT) **ANDY LYTLE**

TITLE **REGULATORY ANALYST**

SIGNATURE 

DATE **2/5/2010**

(This space for State use only)

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