

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 1023-6N4BS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 38419		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1531 FSL 736 FWL	NWSW	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	625 FSL 2035 FWL	SESW	6	10.0 S	23.0 E	S
At Total Depth	625 FSL 2035 FWL	SESW	6	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 625		23. NUMBER OF ACRES IN DRILLING UNIT 516		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 485		26. PROPOSED DEPTH MD: 8860 TVD: 8400		
27. ELEVATION - GROUND LEVEL 5144		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

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

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

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 06/01/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047504550000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8860		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	8860	11.6			

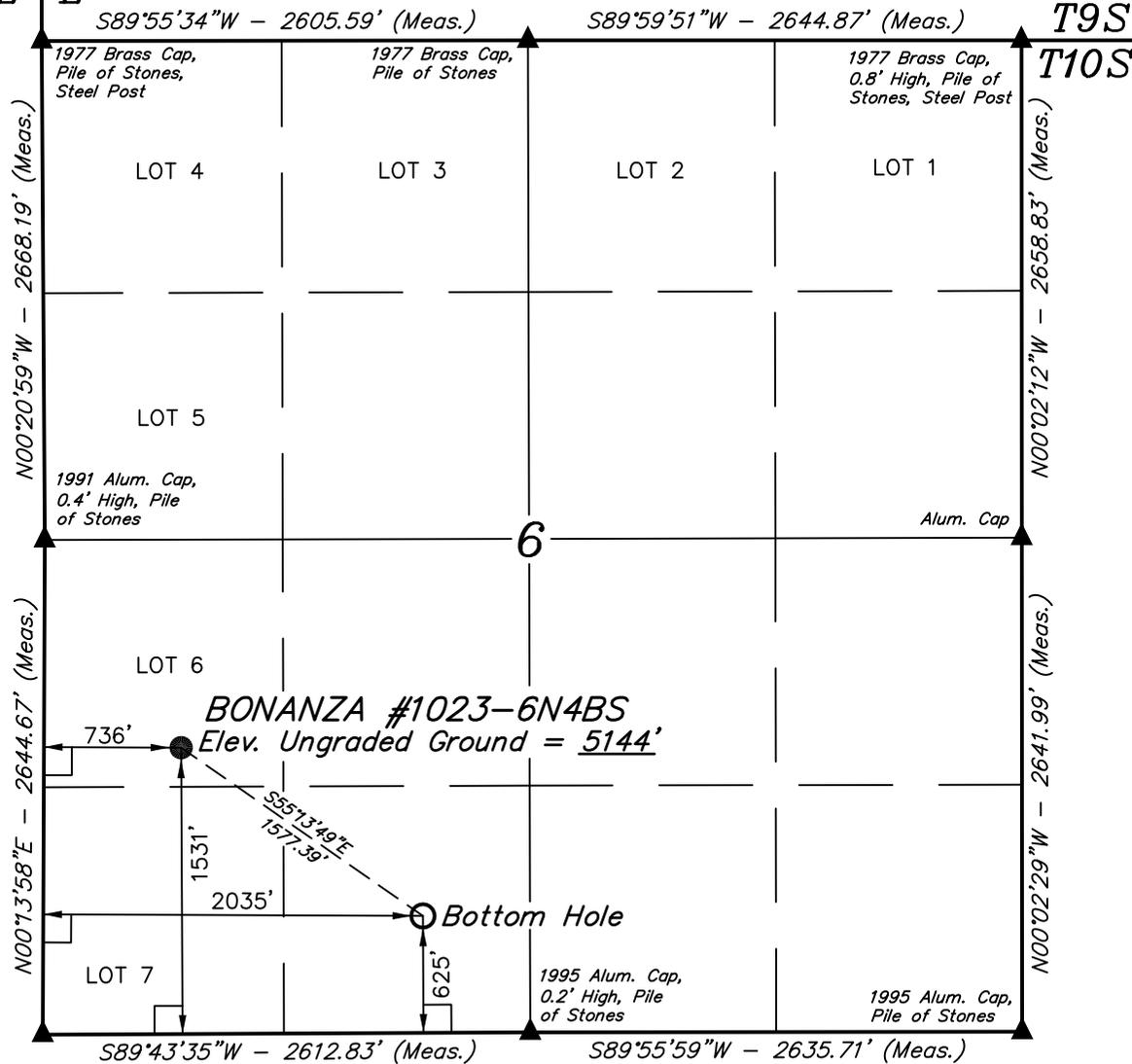
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2070		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2070	36.0			

R
22
E

R
23
E

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



1991 Brass Cap, 0.2'
Above 1.5' High Pile
of Stones

LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°58'20.62" (39.972394)	LATITUDE = 39°58'29.50" (39.974861)
LONGITUDE = 109°22'17.65" (109.371569)	LONGITUDE = 109°22'34.30" (109.376194)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°58'20.74" (39.972428)	LATITUDE = 39°58'29.62" (39.974894)
LONGITUDE = 109°22'15.20" (109.370889)	LONGITUDE = 109°22'31.85" (109.375514)

Kerr-McGee Oil & Gas Onshore LP

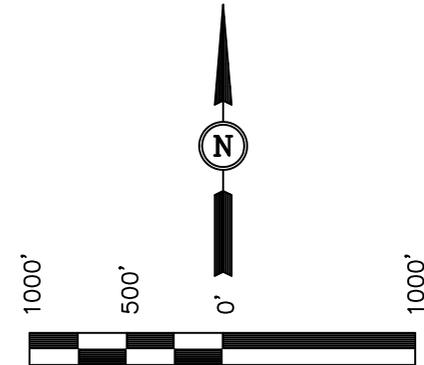
Well location, BONANZA #1023-6N4BS, located as shown in LOT 6 of Section 6, T10S, R23E, S.L.B.&M., Uintah County, Utah.

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

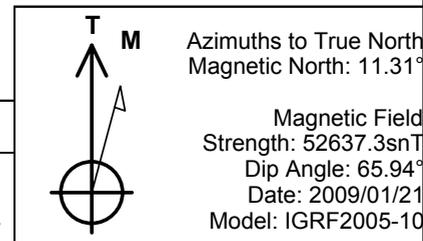
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
ROBERT L. KAY
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 12-31-08 L.K.

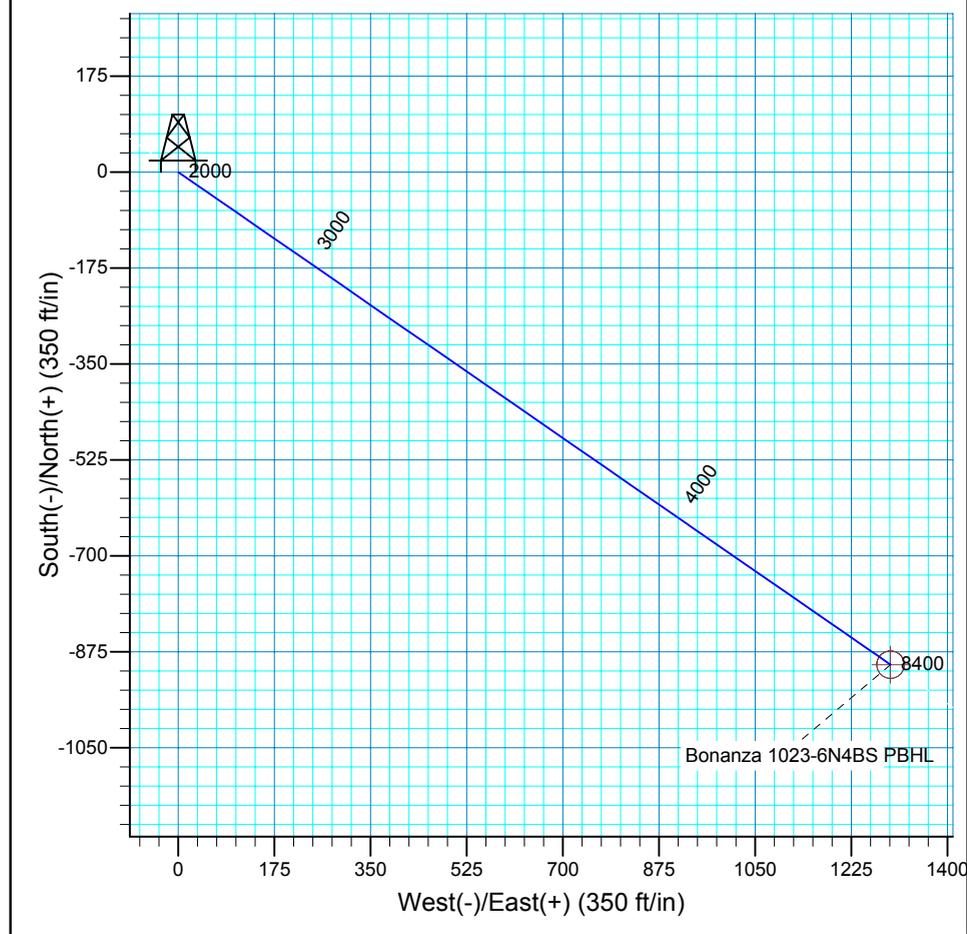
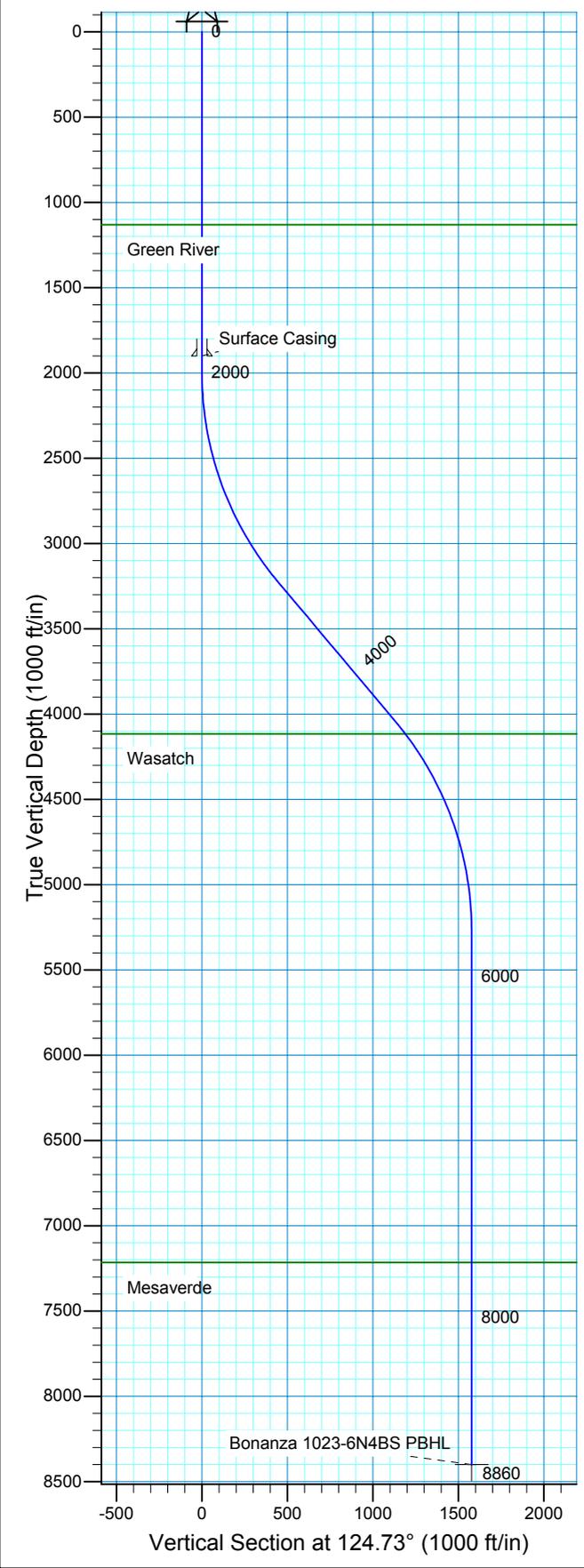
UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 10-16-08	DATE DRAWN: 10-29-08
PARTY B.B. T.B. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

APIWellNo:43047504550000'



WELL DETAILS: Bonanza 1023-6N4BS

GL 5144' & RKB 18' @ 5162.00ft 5144.00
 +N/-S 0.00 +E/-W 0.00 Northing 604972.36 Easting 2595326.72 Latitude 39° 58' 29.620 N Longitude 109° 22' 31.850 W
 Magnetic Field Strength: 52637.3snT
 Dip Angle: 65.94°
 Date: 2009/01/21
 Model: IGRF2005-10



Plan: Plan #1 (Bonanza 1023-6N4BS/OH)
 Created By: Julie Cruse Date: 2009-01-22
 PROJECT DETAILS: Uintah County, UT NAD27
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302
 Location: Sec 6 T10S R23E
 System Datum: Mean Sea Level
 Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3333.33	40.00	124.73	3227.63	-254.54	367.23	3.00	124.73	446.82	
4396.61	40.00	124.73	4042.15	-643.88	928.95	0.00	0.00	130.28	
5729.94	0.00	0.00	5269.78	-898.42	1296.18	3.00	180.00	1577.10	
8860.16	0.00	0.00	8400.00	-898.42	1296.18	0.00	0.00	1577.10	Bonanza 1023-6N4BS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
Bonanza 1023-6L Pad
Bonanza 1023-6N4BS
OH**

Plan: Plan #1

Standard Planning Report

22 January, 2009



Scientific Drilling Planning Report

Database: EDM 2003.16 Multi User DB	Local Co-ordinate Reference: Well Bonanza 1023-6N4BS
Company: Kerr McGee Oil and Gas Onshore LP	TVD Reference: GL 5144' & RKB 18' @ 5162.00ft
Project: Uintah County, UT NAD27	MD Reference: GL 5144' & RKB 18' @ 5162.00ft
Site: Bonanza 1023-6L Pad	North Reference: True
Well: Bonanza 1023-6N4BS	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Plan #1	

Project Uintah County, UT NAD27		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Utah Central 4302		

Site Bonanza 1023-6L Pad, Sec 6 T10S R23E					
Site Position:		Northing:	605,076.57 ft	Latitude:	39° 58' 30.640 N
From: Lat/Long		Easting:	2,595,367.85 ft	Longitude:	109° 22' 31.290 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.36 °

Well Bonanza 1023-6N4BS, 1531' FSL 736' FWL					
Well Position	+N/-S	0.00 ft	Northing:	604,972.36 ft	Latitude: 39° 58' 29.620 N
	+E/-W	0.00 ft	Easting:	2,595,326.72 ft	Longitude: 109° 22' 31.850 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,144.00 ft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2009/01/21	11.31	65.94	52,637

Design Plan #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	124.73

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,333.33	40.00	124.73	3,227.63	-254.54	367.23	3.00	3.00	0.00	124.73	
4,396.61	40.00	124.73	4,042.15	-643.88	928.95	0.00	0.00	0.00	0.00	
5,729.94	0.00	0.00	5,269.78	-898.42	1,296.18	3.00	-3.00	0.00	180.00	
8,860.16	0.00	0.00	8,400.00	-898.42	1,296.18	0.00	0.00	0.00	0.00	Bonanza 1023-6N4BS



Scientific Drilling
Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well Bonanza 1023-6N4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Site:	Bonanza 1023-6L Pad	North Reference:	True
Well:	Bonanza 1023-6N4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,131.00	0.00	0.00	1,131.00	0.00	0.00	0.00	0.00	0.00	0.00
Green River									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	3.00	124.73	2,099.95	-1.49	2.15	2.62	3.00	3.00	0.00
2,200.00	6.00	124.73	2,199.63	-5.96	8.60	10.46	3.00	3.00	0.00
2,300.00	9.00	124.73	2,298.77	-13.39	19.33	23.51	3.00	3.00	0.00
2,400.00	12.00	124.73	2,397.08	-23.78	34.30	41.74	3.00	3.00	0.00
2,500.00	15.00	124.73	2,494.31	-37.07	53.49	65.08	3.00	3.00	0.00
2,600.00	18.00	124.73	2,590.18	-53.25	76.82	93.48	3.00	3.00	0.00
2,700.00	21.00	124.73	2,684.43	-72.26	104.26	126.85	3.00	3.00	0.00
2,800.00	24.00	124.73	2,776.81	-94.06	135.70	165.12	3.00	3.00	0.00
2,900.00	27.00	124.73	2,867.06	-118.58	171.08	208.16	3.00	3.00	0.00
3,000.00	30.00	124.73	2,954.93	-145.76	210.30	255.87	3.00	3.00	0.00
3,100.00	33.00	124.73	3,040.18	-175.52	253.23	308.12	3.00	3.00	0.00
3,200.00	36.00	124.73	3,122.59	-207.79	299.78	364.75	3.00	3.00	0.00
3,300.00	39.00	124.73	3,201.91	-242.46	349.81	425.62	3.00	3.00	0.00
3,333.33	40.00	124.73	3,227.63	-254.54	367.23	446.82	3.00	3.00	0.00
3,400.00	40.00	124.73	3,278.70	-278.95	402.45	489.67	0.00	0.00	0.00
3,500.00	40.00	124.73	3,355.31	-315.57	455.28	553.95	0.00	0.00	0.00
3,600.00	40.00	124.73	3,431.91	-352.19	508.11	618.23	0.00	0.00	0.00
3,700.00	40.00	124.73	3,508.52	-388.80	560.94	682.51	0.00	0.00	0.00
3,800.00	40.00	124.73	3,585.12	-425.42	613.77	746.79	0.00	0.00	0.00
3,900.00	40.00	124.73	3,661.73	-462.04	666.60	811.07	0.00	0.00	0.00
4,000.00	40.00	124.73	3,738.33	-498.66	719.43	875.35	0.00	0.00	0.00
4,100.00	40.00	124.73	3,814.93	-535.27	772.26	939.63	0.00	0.00	0.00
4,200.00	40.00	124.73	3,891.54	-571.89	825.09	1,003.90	0.00	0.00	0.00
4,300.00	40.00	124.73	3,968.14	-608.51	877.91	1,068.18	0.00	0.00	0.00
4,396.61	40.00	124.73	4,042.15	-643.88	928.95	1,130.28	0.00	0.00	0.00
4,400.00	39.90	124.73	4,044.75	-645.12	930.74	1,132.46	3.00	-3.00	0.00
4,491.09	37.17	124.73	4,116.00	-677.45	977.37	1,189.20	3.00	-3.00	0.00
Wasatch									
4,500.00	36.90	124.73	4,123.11	-680.50	981.78	1,194.57	3.00	-3.00	0.00

Scientific Drilling

Planning Report



Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well Bonanza 1023-6N4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5144' & RKB 18' @ 5162.00ft
Site:	Bonanza 1023-6L Pad	North Reference:	True
Well:	Bonanza 1023-6N4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)	
4,600.00	33.90	124.73	4,204.62	-713.50	1,029.39	1,252.48	3.00	-3.00	0.00	
4,700.00	30.90	124.73	4,289.04	-744.02	1,073.42	1,306.06	3.00	-3.00	0.00	
4,800.00	27.90	124.73	4,376.16	-771.98	1,113.76	1,355.14	3.00	-3.00	0.00	
4,900.00	24.90	124.73	4,465.72	-797.30	1,150.29	1,399.60	3.00	-3.00	0.00	
5,000.00	21.90	124.73	4,557.48	-819.92	1,182.93	1,439.30	3.00	-3.00	0.00	
5,100.00	18.90	124.73	4,651.20	-839.78	1,211.57	1,474.15	3.00	-3.00	0.00	
5,200.00	15.90	124.73	4,746.62	-856.81	1,236.14	1,504.05	3.00	-3.00	0.00	
5,300.00	12.90	124.73	4,843.46	-870.97	1,256.58	1,528.91	3.00	-3.00	0.00	
5,400.00	9.90	124.73	4,941.48	-882.23	1,272.82	1,548.68	3.00	-3.00	0.00	
5,500.00	6.90	124.73	5,040.40	-890.55	1,284.82	1,563.28	3.00	-3.00	0.00	
5,600.00	3.90	124.73	5,139.94	-895.91	1,292.55	1,572.69	3.00	-3.00	0.00	
5,700.00	0.90	124.73	5,239.84	-898.29	1,295.99	1,576.87	3.00	-3.00	0.00	
5,729.94	0.00	0.00	5,269.78	-898.42	1,296.18	1,577.10	3.00	-3.00	-416.57	
5,800.00	0.00	0.00	5,339.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,439.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,539.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,639.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,739.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,300.00	0.00	0.00	5,839.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,400.00	0.00	0.00	5,939.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,039.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,139.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,239.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,339.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,439.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,539.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,639.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,739.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,839.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,400.00	0.00	0.00	6,939.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,039.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,139.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,675.16	0.00	0.00	7,215.00	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
Mesaverde										
7,700.00	0.00	0.00	7,239.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,339.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,439.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,539.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,639.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,739.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,300.00	0.00	0.00	7,839.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,400.00	0.00	0.00	7,939.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,039.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,139.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,239.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,339.84	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	
8,860.16	0.00	0.00	8,400.00	-898.42	1,296.18	1,577.10	0.00	0.00	0.00	



Scientific Drilling Planning Report

Database: EDM 2003.16 Multi User DB	Local Co-ordinate Reference: Well Bonanza 1023-6N4BS
Company: Kerr McGee Oil and Gas Onshore LP	TVD Reference: GL 5144' & RKB 18' @ 5162.00ft
Project: Uintah County, UT NAD27	MD Reference: GL 5144' & RKB 18' @ 5162.00ft
Site: Bonanza 1023-6L Pad	North Reference: True
Well: Bonanza 1023-6N4BS	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Plan #1	

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Bonanza 1023-6N4BS P - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,400.00	-898.42	1,296.18	604,104.97	2,596,643.87	39° 58' 20.740 N	109° 22' 15.200 W

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
1,900.00	1,900.00	Surface Casing	9.625	13.500	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,131.00	1,131.00	Green River		0.00		
4,491.09	4,116.00	Wasatch		0.00		
7,675.16	7,215.00	Mesaverde		0.00		

Bonanza 1023-6N4BS

Pad: Bonanza 1023-6L
Surface: 1,531' FSL, 736' FWL (NW/4SW/4) Lot 6
BHL: 625' FSL 2,035' FWL (SE/4SW/4)
Sec. 6 T10S R23E

Uintah, Utah
Mineral Lease: UTU 38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,131'	
Birds Nest	1,367'	Water
Mahogany	1,863'	Water
Wasatch	4,116'	Gas
Mesaverde	6,259'	Gas
MVU2	7,215'	Gas
MVL1	7,772'	Gas
TVD	8,400'	
TD	8,860'	

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 8,860' TD, approximately equals 4,972 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,124 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2,070	36.00	J-55	LTC	3520	2020	453000
						1.04	2.09	7.74
PRODUCTION	4-1/2"	0 to 8,860	11.60	I-80	LTC	7,780	6,350	201,000
						2.42	1.25	2.24

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,124 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 4,972 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,610'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	340	40%	11.00	3.38
	TAIL	5,250'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1290	40%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

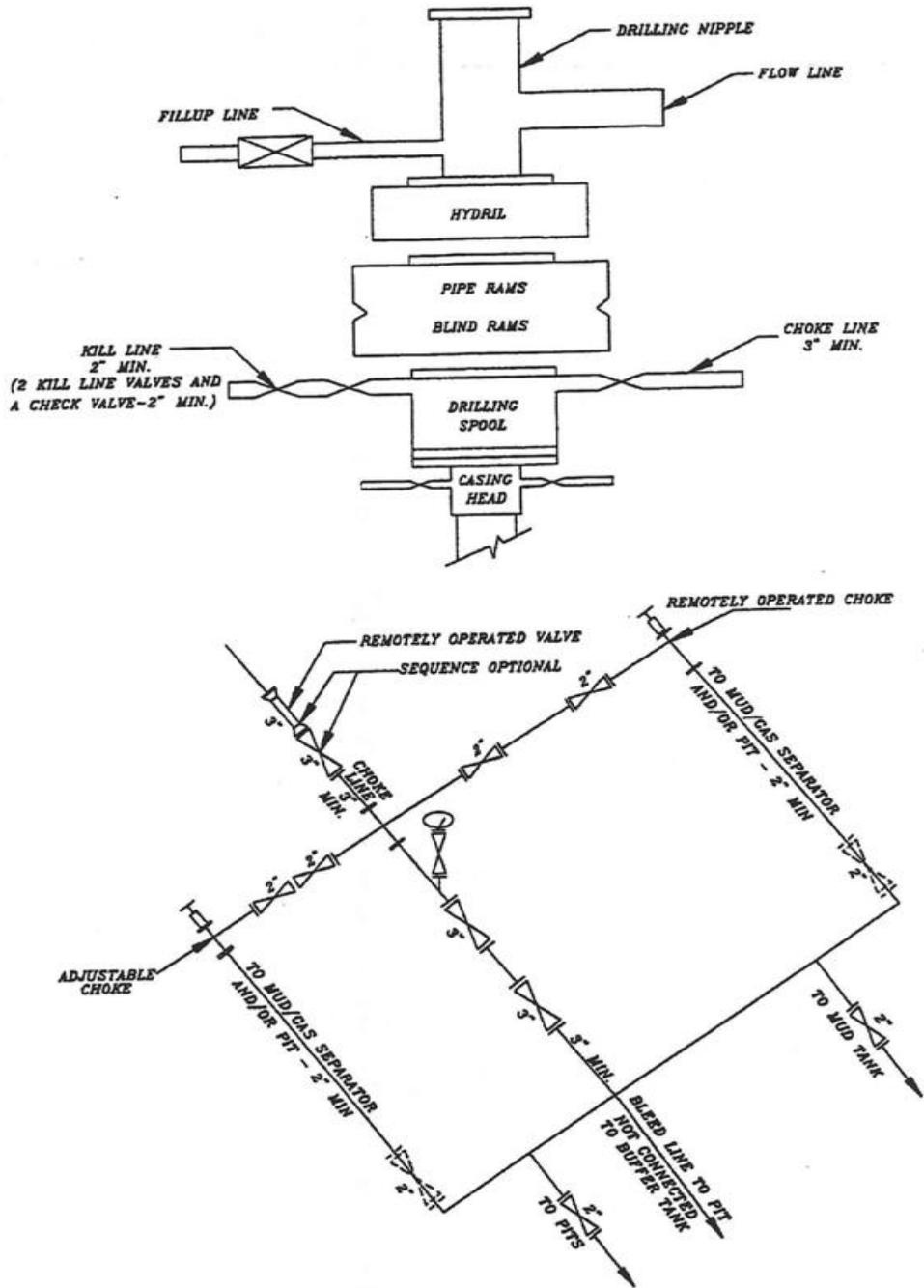
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

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

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

EXHIBIT A Bonanza 1023-6N4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

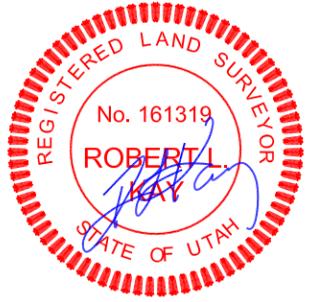
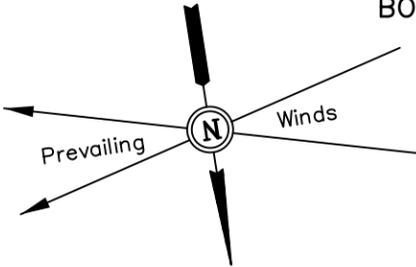
Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

BONANZA #1023-6M1BS, #1023-6N4BS, #1023-6N1CS & #1023-6N1AS
SECTION 6, T10S, R23E, S.L.B.&M.
LOT 6

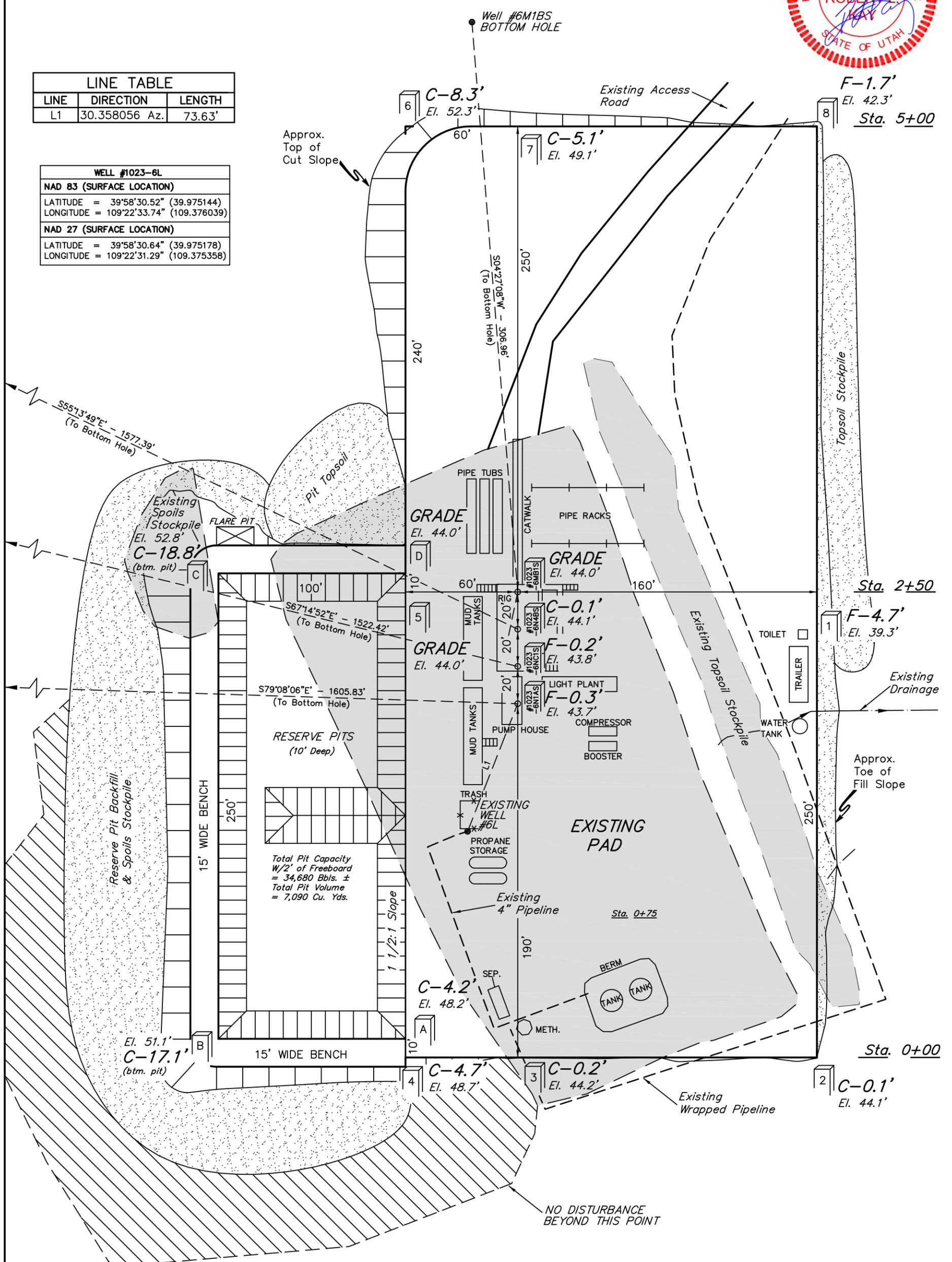
FIGURE #1

SCALE: 1" = 50'
DATE: 10-29-08
Drawn By: C.C.
REVISED: 12-31-08 L.K.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	30.358056 Az.	73.63'

WELL #1023-6L	
NAD 83 (SURFACE LOCATION)	
LATITUDE	= 39°58'30.52" (39.975144)
LONGITUDE	= 109°22'33.74" (109.376039)
NAD 27 (SURFACE LOCATION)	
LATITUDE	= 39°58'30.64" (39.975178)
LONGITUDE	= 109°22'31.29" (109.375358)



Elev. Ungraded Ground At #6M1BS Loc. Stake = 5144.0'
Elev. Graded Ground at #6M1BS Location Stake = 5144.0'

Kerr-McGee Oil & Gas Onshore LP

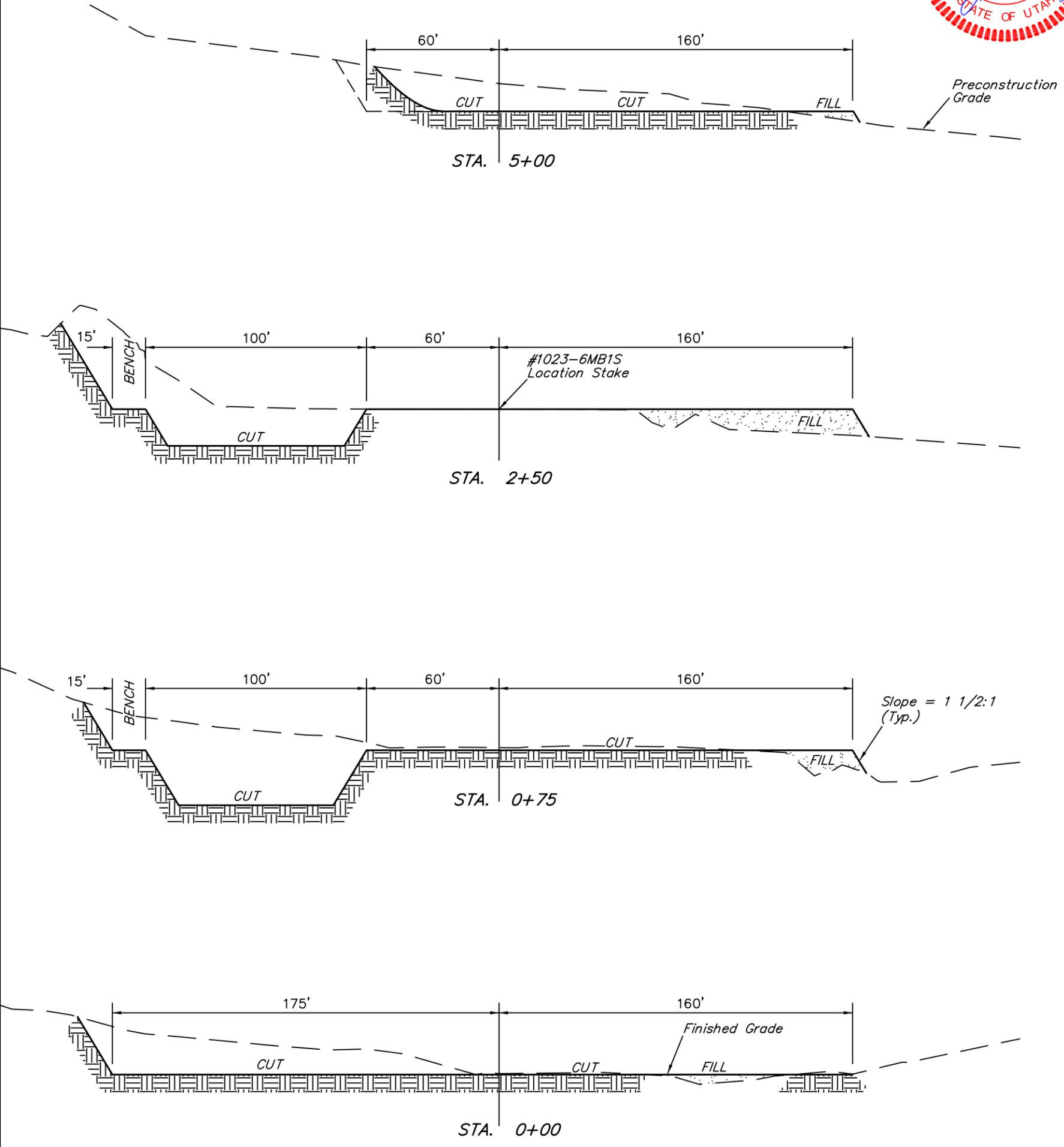
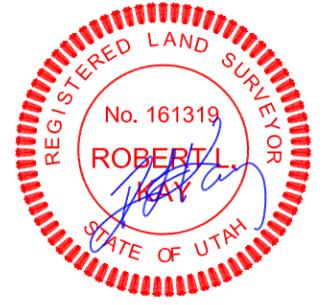
TYPICAL CROSS SECTIONS FOR

**BONANZA #1023-6M1BS, #1023-6N4BS, #1023-6N1CS & #1023-6N1AS
SECTION 6, T10S, R23E, S.L.B.&M.
LOT 6**

FIGURE #2

1" = 20'
X-Section Scale
1" = 50'

DATE: 10-29-08
Drawn By: C.C.
REVISED: 12-31-08 L.K.



APPROXIMATE ACREAGES

EXISTING WELL SITE DISTURBANCE = ±1.252 ACRES
PROPOSED WELL SITE DISTURBANCE = ±3.587 ACRES
PROPOSED WELL SITE DISTURBANCE = ±4.839 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,880 Cu. Yds.
(New Construction Only)
Remaining Location = 16,950 Cu. Yds.
TOTAL CUT = 18,830 CU.YDS.
FILL = 3,890 CU.YDS.

EXCESS MATERIAL = 14,940 Cu. Yds.
Topsoil & Pit Backfill = 5,430 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 9,510 Cu. Yds.
(After Interim Rehabilitation)

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-06M1BS, #1023-06N1AS,
#1023-06N1CS & #1023-06N4BS
LOCATED IN UTAH COUNTY, UTAH
SECTION 6, T10S, R23E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS	10	28	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.B.	DRAWN BY: C.H.		REVISED: 01-02-09 S.P.	

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-06M1BS, #1023-06N1AS, #1023-
06N1CS & #1023-06N4BS
SECTION 6, T10S, R23E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE #1023-7D AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE #1023-6M AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.3 MILES.

Bonanza 1023-6M1BS

Surface: 1,511' FSL 733' FWL (NW/4 SW/4) – Lot 6
BHL: 1,511' FSL 710' FWL (SW/4 SW/4) – Lot 7

Bonanza 1023-6N1AS

Surface: 1,570' FSL 742' FWL (NW/4 SW/4) – Lot 6
BHL: 1,260' FSL 2,320' FWL (SE/4 SW/4)

Bonanza 1023-6N1CS

Surface: 1,550' FSL 739' FWL (NW/4 SW/4) – Lot 6
BHL: 955' FSL 2,145' FWL (SE/4 SW/4)

Bonanza 1023-6N4BS

Surface: 1,531' FSL 736' FWL (NW/4 SW/4) – Lot 6
BHL: 625' FSL 2,035' FWL (SE/4 SW/4)

Pad: Bonanza 1023-6L
Sec. 6 T10S R23E

Uintah, Utah
Mineral Lease: UTU 38419

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted in January 2009 showing the surface locations in NW/4 NE/4 of Section 6 T10S R23E.

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

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

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

Directional Drilling:

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

This pad will be expanding the existing Bonanza 1023-6L well pad.

1. Existing Roads:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

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

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

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

Surfacing material may be necessary, depending upon weather conditions.

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

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

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

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

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

Approximately ±400' of 4" pipeline will be upgraded to 8" pipeline. Refer to Topo D for the existing pipeline. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. Location and Type of Water Supply:

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

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

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

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

7. Methods of Handling Waste Materials:

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

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

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E.

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

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

See MDP for additional details on Well Site Layout.

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

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

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

Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

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

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

10. Plans for Reclamation of the Surface:

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

11. Surface/Mineral Ownership:

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

12. Other Information:

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

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

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

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

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

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

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

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

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

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

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

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

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

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



Kathy Schneebeck Dulnoan

June 1, 2009

Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 43 PROPOSED WELL LOCATIONS
(T10S, R23E, SECTIONS 5, 6, 7, 8, AND 10)
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 43 PROPOSED WELL LOCATIONS
(T10S, R23E, SECTIONS 5, 6, 7, 8, AND 10)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 08-331

February 26, 2009

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

INTRODUCTION

A Class I literature review was completed by Montgomery Archaeological Consultants, Inc. (MOAC) in February 2009 of Kerr-McGee Onshore's 43 proposed well locations in Township 10S, Range 23E. The project area is situated north of the White River and south of the town of Bonanza, Uintah County, Utah. The wells are designated (Bonanza 1023-05F) Directional Pad, Bonanza 1023-05G2AS, Bonanza 1023-05G3BS, Bonanza 1023-05G2CS, Bonanza 1023-05G3CS, (Bonanza 1023-05I) Directional Pad, Bonanza 1023-05IS, (Bonanza 1023-06L) Directional Pad, Bonanza 1023-06M1BS, Bonanza 1023-06N1AS, Bonanza 1023-06N1CS, Bonanza 1023-06N4BS, Bonanza 1023-07JT, FMF #1-7 Directional Pad, Bonanza 1023-07J2AS, Bonanza 1023-07J2DS, (Bonanza 1023-07L) Directional Pad, Bonanza 1023-07L3DS, Bonanza 1023-07M2AS, Bonanza 1023-07N2AS, Bonanza 1023-07N2DS, Bonanza 1023-07P Directional Pad, Bonanza 1023-07O4S, Bonanza 1023-07P2S, Bonanza 1023-08A Directional Pad, Bonanza 1023-08A1DS, Bonanza 1023-08A4BS, Bonanza 1023-08B1AS, Bonanza 1023-08B2AS, (Bonanza 1023-08D) Directional Pad, Bonanza 1023-08C4CS, Bonanza 1023-08D2DS, Bonanza 1023-08D3DS, Bonanza 1023-08F3DS, (Bonanza 1023-08J) Directional Pad, Bonanza 1023-08J1S, Bonanza 1023-08J3, Bonanza 1023-08O2S, Bonanza 1023-08O3S, Bonanza 1023-10A Directional Pad 1023-10A2DS, 1023-10A4BS, 1023-10H1BS, 1023-10H2DS. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Onshore LP, Denver, Colorado.

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 43 proposed Bonanza well locations occur was previously inventoried by MOAC for two Class III inventories. In 2003, MOAC completed a block inventory of Sections 4, 5, 6, 7, and 8 in Township 10 South, Range 23 East for Westport Oil and Gas Company (Elkins and Montgomery 2003). In 2005, MOAC completed a cultural resource inventory for Westport Oil & Gas Company's eight proposed well locations including Bonanza #1023-10A (Seacat 2005).

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 inventories indicated that five previously recorded sites (42Un3487, 42Un3490, 42Un3491, 42Un3528, and 42Un3541) occur in the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated north of the White River and south of the town of Bonanza, Uintah County, Utah. The legal description is Township 10S, Range 23E, Sections 5, 6, 7, 8, 10 and 11 (Figure 1, Table 1). Land status is public land administered by the Bureau of Land Management (BLM) Vernal Field Office.

Table 1. Kerr-McGee Onshore's 43 Bonanza Well Locations.

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
(Bonanza 1023-05F) Directional Pad 1023-05G2AS 1023-05G3BS 1023-05G2CS 1023-05G3CS	SW/NE Sec. 5, T10S, R23	None	42Un3487, 42Un3490, 42Un3491
(Bonanza 1023-05I) Directional Pad 1023-05IS	NE/SE Sec. 5, T10S, R23	None	None
(Bonanza 1023-06L) Directional Pad 1023-06M1BS 1023-06N1AS 1023-06N1CS 1023-06N4BS	NW/SW Sec. 6 T10S, R23	Pipeline: 505 ft	42Un3541
Bonanza 1023-07JT, FMF #1-7 Directional Pad 1023-07J2AS 1023-07J2DS	NW/SE Sec. 7 T10S, R23	Pipeline: 95 ft	None
(Bonanza 1023-07L) Directional Pad 1023-07L3DS 1023-07M2AS 1023-07N2AS 1023-07N2DS	NW/SW Sec. 7 T10S, R23	Pipeline: 1652 ft	None
Bonanza 1023-07P Directional Pad 1023-07O4S 1023-07P2S	SE/SE Sec. 7 T10S, R23	None	42Un3528
Bonanza 1023-08A Directional Pad 1023-08A1DS 1023-08A4BS 1023-08B1AS 1023-08B2AS	NE/NE Sec. 8 T10S, R23	Access: 237 ft Pipeline: 841 ft	None
(Bonanza 1023-08D) Directional Pad 1023-08C4CS 1023-08D2DS 1023-08D3DS 1023-08F3DS	NW/NW Sec. 8 T10S, R23	Access: 379 ft Pipeline: 139 ft	None
(Bonanza 1023-08J) Directional Pad 1023-08J1S 1023-08J3 1023-08O2S 1023-08O3S	NW/SE Sec. 8 T10S, R23	Access: 99 ft Pipeline: 553 ft	None
Bonanza 1023-10A Directional Pad 1023-10A2DS 1023-10A4BS 1023-10H1BS 1023-10H2DS	NE/NE Sec. 10 T10S, R23	Pipeline: 1468 ft	None

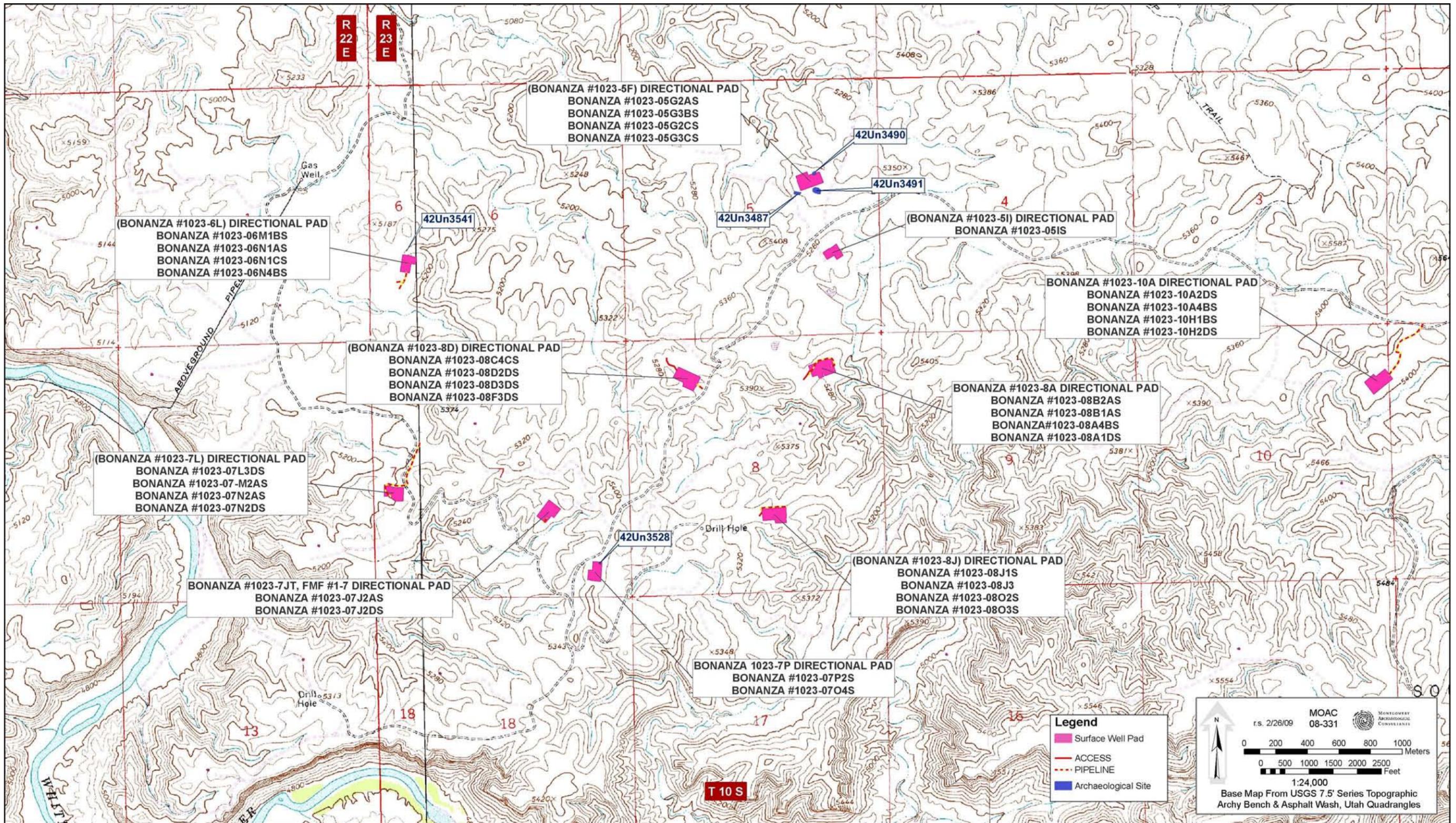


Figure 1. Kerr-McGee Oil and Gas Onshore LP's Proposed Bonanza Well Locations in Uintah County, Utah.

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits, which include Paleocene age deposits and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops (formed by fluvial deposited, stream laid interbedded sandstone and mudstone), and is known for its prolific paleontological localities. Specifically, the inventory area is situated east of the White River and southeast of the town of Ouray, Uintah County, Utah. Elevation ranges from 5160 to 5400 ft asl. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, and prickly pear cactus. Modern disturbances include livestock grazing, roads, and oil/gas development.

CLASS I RESULTS AND RECOMMENDATIONS

The Class I literature review of Kerr-McGee Onshore's 43 proposed well locations and associated pipeline corridors in Township 10S, Range 23E resulted in the location of five previously documented sites (42Un3487, 42Un3490, 42Un3491, 42Un3528, and 42Un3541). One site (42Un3487) consists of two historic inscriptions, three sites (42Un3490, 42Un3491, and 42Un3528) are historic trash scatters, and one site 42Un3541 is a historic rock cairn; all of these sites are evaluated not eligible to the NRHP. Based on the findings, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, CFR 800.

REFERENCES CITED

- Elkins, M and K. Montgomery
2003 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-0882.
- 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.
- Seacat, T. B.
2005 Cultural Resource Inventory of Westport Oil & Gas Company's Proposed Bonanza #1023-10A, C, E, F, G, J, O, P Well Locations in Section 10, T10S R23E, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-05-MQ-0351.
- Stokes, W. L.
1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City.

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Multi-Well Pads, Access Roads,
and Pipeline Upgrades for "NBU #1022-12P, #1022-24N2,
Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS,
#1023-07P2S & O4S, & #1023-07J2AS
& J2DS" (Sec. 12, T 10 S, R 22 E)
& (Sec. 6 & 7, T 10 S, R 23 E)**

Archy Bench & Asphalt Wash
Topographic Quadrangles
Uintah County, Utah

March 25, 2009

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

INTRODUCTION

At the request of Raleen White of Kerr McGee Onshore LP and authorized by the BLM Vernal Field Office and James Kirkland of the Office of the State Paleontologist, a paleontological reconnaissance survey of Kerr McGee's proposed multi-well pads, access roads, and pipeline upgrades for "NBU #1022-12P, #1022-24N2, Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS, #1023-07P2S & O4S, #1023-07J2AS & J2DS" (Sec. 12, T 10 S, R 22 E) & (Sec. 6 & 7, T 10 S, R 23 E) was conducted by Simon Masters, Jason Klimek, and Amanda Dopheide on February 24 and 27, 2009. The reconnaissance survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT08-006C and Utah Paleontological Investigations Permit #07-356. This survey to locate, identify and evaluate paleontological resources was done to meet requirements of the National Environmental Policy Act of 1969 and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

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

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

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

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

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

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

LOCATION

Kerr McGee's proposed multi-well pads, access roads, and pipeline upgrades for "NBU #1022-12P, #1022-24N2, Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS, #1023-07P2S & O4S, #1023-07J2AS & J2DS" (Sec. 12, T 10 S, R 22 E) & (Sec. 6 & 7, T 10 S, R 23 E) are on lands managed by the BLM and the State of Utah Trust Lands Administration (SITLA), about 1-1.5 miles east and 1-2 miles north of the White River in the Saddletree Draw and Asphalt Wash area and about 12-15 miles northeast of Bonanza, Utah. The project area can be found on the Archy Bench and 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 B) of the Uinta Formation. The following list provides a description of the individual wells and their associated pipelines and access roads.

Multi-well pad NBU #1022-12P

The proposed well is located in the SE/SE quarter-quarter section of Sec. 12, T 10 S, R 22 E, and is approached from the east by an existing access road and pipeline (Figure 1). The wells are staked on an existing pad. The geology of the proposed area consists of thin colluvium and small sharp fragments of hard resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone that is exposed to the west end of the pad. No fossils were discovered.

Multi-well pad NBU #1022-24N2

The proposed well is located in the SW/SE quarter-quarter section of Sec. 12, T 10 S, R 22 E, and is approached from the east by an existing access road and pipeline (Figure 1). The wells are staked on gently sloping ground on the top of a prominent ridge. The northeast corner of the pad

is staked on a reclaimed well pad. The pit of the proposed pad is staked in the southeast corner of the pad. The geology of the proposed area consists of thin colluvium and small, angular fragments of resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone with fragments of green mudstone evident within the disturbed material of the reclaimed pad. No fossils were discovered.

Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS

The proposed well is situated in the NW/SW quarter-quarter section of Sec. 6, T 10 S, R 23 E, and is approached from the south by an existing access road and pipeline. The wells are staked on the existing pad “Bonanza #1023-6L” (Figure 1). The geology of the proposed project area consists of alternating beds of gray mudstone, maroon siltstone, and gray siltstone exhibiting desert varnish. Scattered fragments of turtle (*Echmatemys* sp.) were discovered along the side and base of the hill at the north end of the pad. Ichnofossils consisting of prominent burrows within weathered fragments of gray siltstone were also seen in the project area.

Bonanza #1023-07P2S & O4S

The proposed well is situated in the SE/SE quarter-quarter section of Sec. 7, T 10 S, R 23 E, and is approached from the north by an existing access road and pipeline (Figure 1). The wells are staked on an existing pad. The geology of the proposed project area consists of thin colluvium and small angular fragments of hard resistant siltstone underlain by a thick paleochannel of tan fluvial sandstone. No fossils were discovered.

Bonanza #1023-07J2AS & J2DS

The proposed pipeline begins in the NE/SE quarter-quarter section and travels approximately 1,000 feet east where it ties-in to the proposed multi-well pad in the NW/ SE quarter-quarter section of Sec. 7 (Figure 1). The project area is staked on relatively flat ground covered by tan colluvium, gravel to cobble sized pieces of purple and orange, medium-grained sandstone, gravel sized pieces of purple siltstone, and previously disturbed soil. An about 1 foot thick outcrop of laminated, tan, medium-grained sandstone was observed approximately 8 feet west of the pad. Another approximately 3 foot thick outcrop of laminated sandstone is situated roughly 6 feet. No fossils were found.

SURVEY RESULTS

PROJECT	GEOLOGY	PALEONTOLOGY
<p>“Multi-well pad NBU #1022-12P” (Sec. 12, T 10 S, R 22 E)</p>	<p>The wells are staked on an existing pad. The geology of the proposed area consists of thin colluvium and small sharp fragments of hard resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone that is exposed to the west end of the pad.</p>	<p>No fossils were discovered. Class 3a</p>

<p>“Multi-well pad NBU #1022-24N2” (Sec. 12, T 10 S, R 22 E)</p>	<p>The wells are staked on gently sloping ground on the top of a prominent ridge. The northeast corner of the pad is staked on a reclaimed well pad. The pit of the proposed pad is staked in the southeast corner of the pad. The geology of the proposed area consists of thin colluvium and small, angular fragments of resistant siltstone underlain by a thick paleochannel of tan, fluvial sandstone with fragments of green mudstone evident within the disturbed material of the reclaimed pad.</p>	<p>No fossils were discovered. Class 3a</p>
<p>“Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS” (Sec. 6, T 10 S, R 23 E)</p>	<p>The geology of the proposed project area consists of alternating beds of gray mudstone, maroon siltstone, and gray siltstone exhibiting desert varnish.</p>	<p>Scattered fragments of turtle (<i>Echmatemys</i> sp.) were discovered along the side and base of the hill at the north end of the pad. Ichnofossils consisting of prominent burrows within weathered fragments of gray siltstone were also seen in the project area. Class 3a</p>
<p>“Bonanza #1023-07P2S & O4S” (Sec. 7, T 10 S, R 23 E)</p>	<p>The geology of the proposed project area consists of thin colluvium and small angular fragments of hard resistant siltstone underlain by a thick paleochannel of tan fluvial sandstone.</p>	<p>No fossils were discovered. Class 3a</p>
<p>“Bonanza #1023-07J2AS & J2DS” (Sec. 7, T 10 S, R 23 E)</p>	<p>The project area is staked on relatively flat ground covered by tan colluvium, gravel to cobble sized pieces of purple and orange, medium-grained sandstone, gravel sized pieces of purple siltstone, and previously disturbed soil. An about 1 foot thick outcrop of laminated, tan, medium-grained sandstone was observed approximately 8 feet west of the pad. Another approximately 3 foot thick outcrop of laminated sandstone is situated roughly 6 feet.</p>	<p>No fossils were discovered. Class 3a</p>

RECOMMENDATIONS

A reconnaissance survey was conducted for Kerr McGee's proposed multi-well pads, access roads, and pipeline upgrades for "NBU #1022-12P, #1022-24N2, Bonanza #1023-06M1BS, N1AS, N1CS, & N4BS, #1023-07P2S & O4S, #1023-07J2AS & J2DS" (Sec. 12, T 10 S, R 22 E) & (Sec. 6 & 7, T 10 S, R 23 E). The well pads, well pad expansions, and the associated access roads and pipelines covered in this report showed little to no signs of vertebrate fossils. Therefore, we recommend that no paleontological restrictions should be placed on the development of the projects included in this report.

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

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

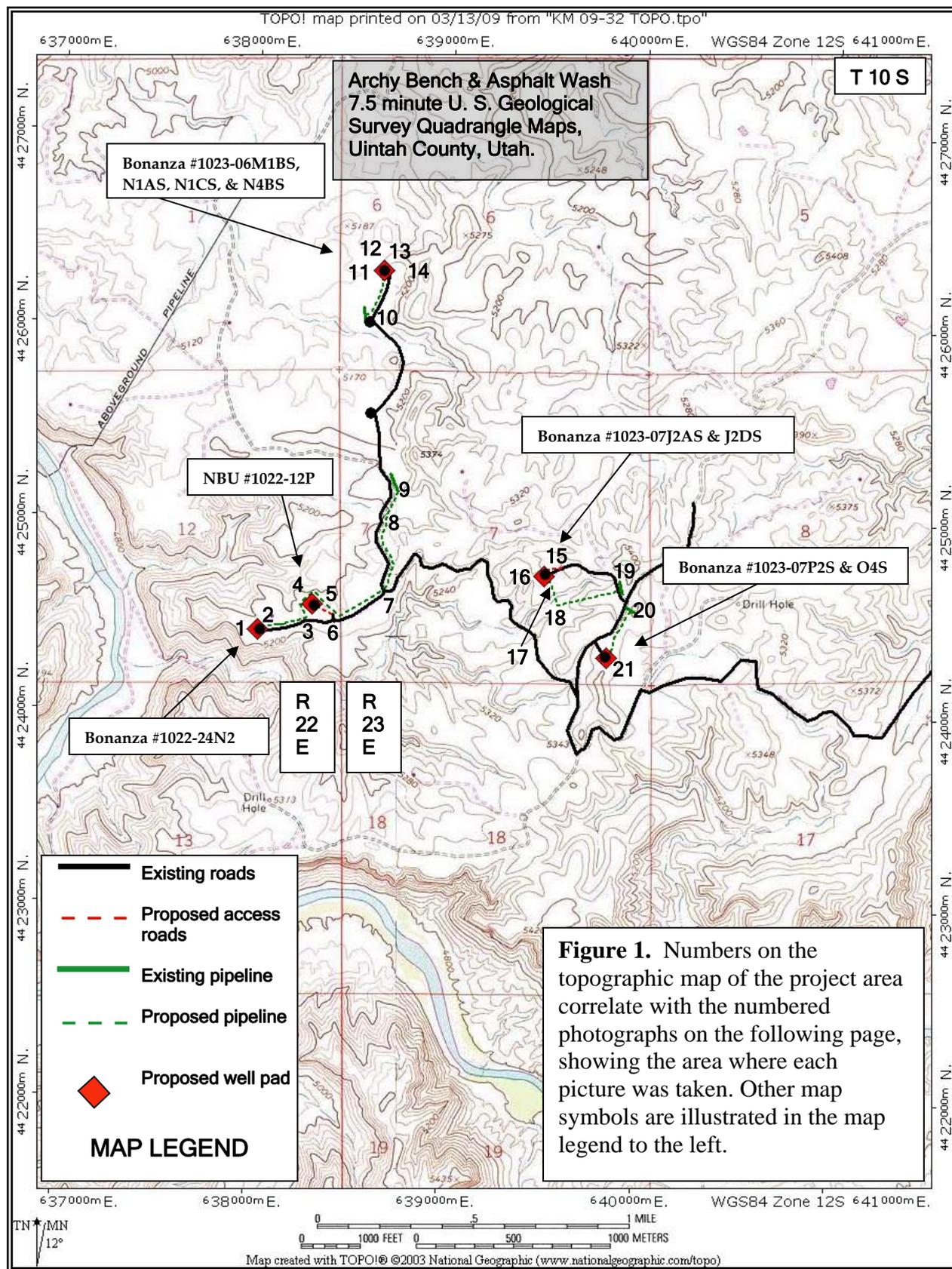


Figure 1. continued...

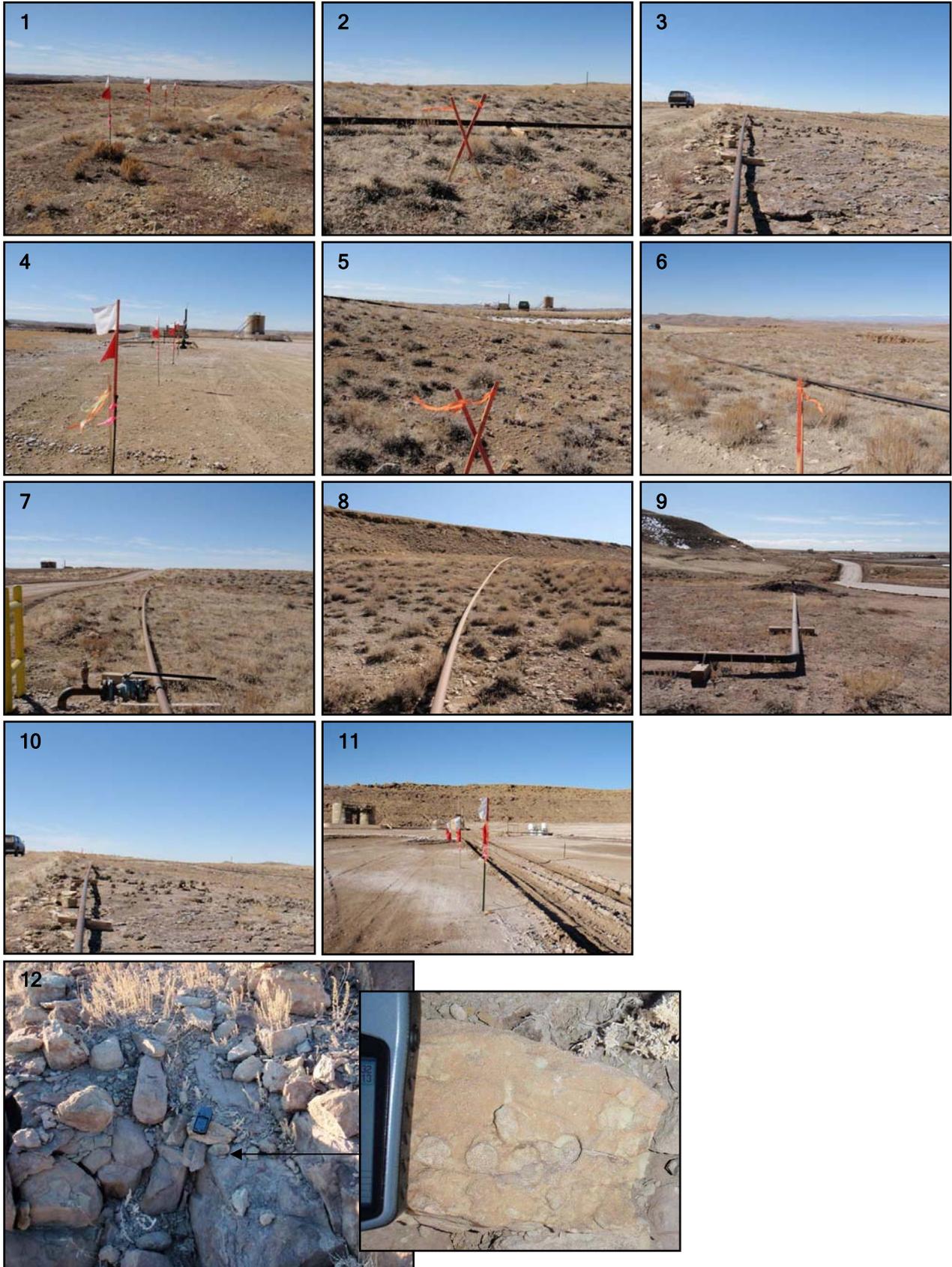
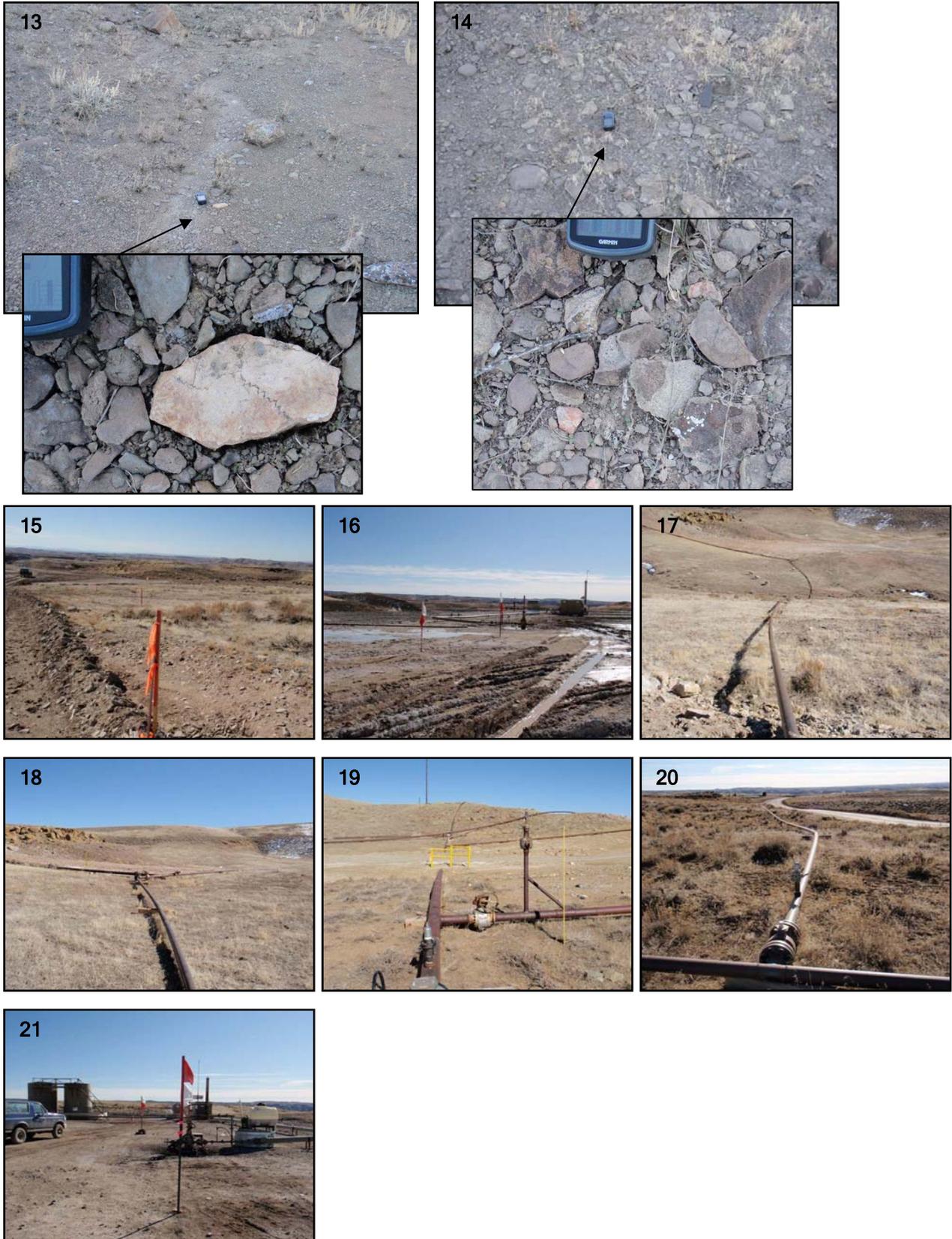


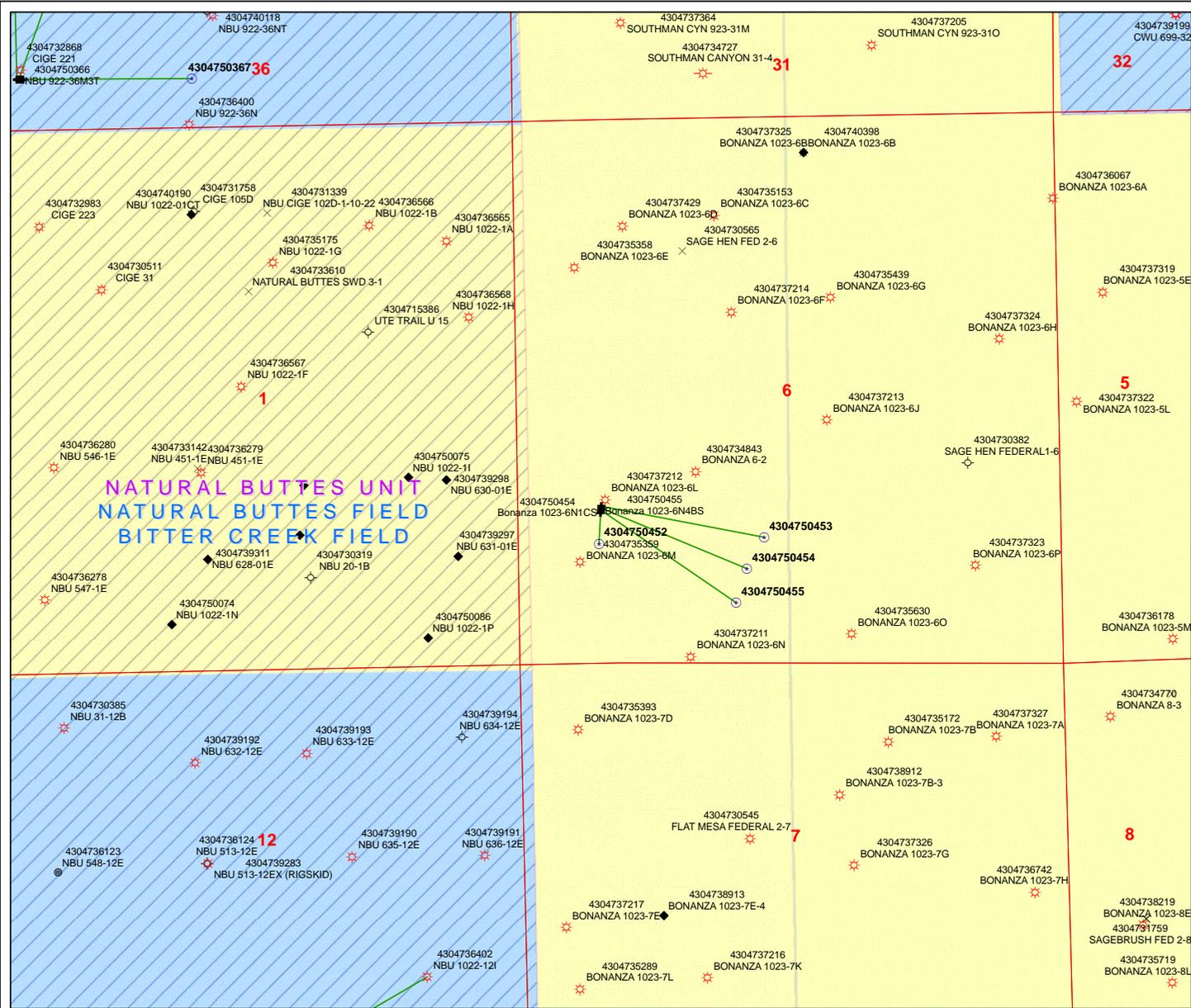
Figure 1. *continued...*



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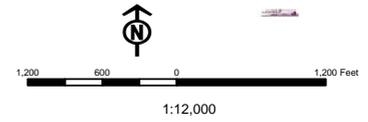
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API Number: 4304750455
Well Name: Bonanza 1023-6N4BS
Township 10.0 S Range 23.0 E Section 6
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

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



1:12,000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/1/2009

API NO. ASSIGNED: 43047504550000

WELL NAME: Bonanza 1023-6N4BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWSW 6 100S 230E

Permit Tech Review:

SURFACE: 1531 FSL 0736 FWL

Engineering Review:

BOTTOM: 0625 FSL 2035 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97492

LONGITUDE: -109.37565

UTM SURF EASTINGS: 638712.00

NORTHINGS: 4426027.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 38419

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Bonanza 1023-6N4BS
API Well Number: 43047504550000
Lease Number: UTU 38419
Surface Owner: FEDERAL
Approval Date: 6/18/2009

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

Notify the Division within 24 hours of spudding the well.

API Well No: 43047504550000

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

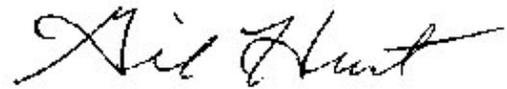
Notify the Division prior to commencing operations to plug and abandon the well.

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

Reporting Requirements:

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

Approved By:

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

Gil Hunt
Associate Director, Oil & Gas

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 01 2009

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU38419
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No.
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		8. Lease Name and Well No. BONANZA 1023-6N4BS
3b. Phone No. (include area code) Ph: 720-929-6007 Fx: 720-929-7007		9. API Well No. 43 047 50455
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface Lot 6 1531FSL 736FWL 39.97486 N Lat, 109.37619 W Lon At proposed prod. zone SESW 625FSL 2035FWL 39.37239 N Lat, 109.37157 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 25 MILES SOUTHEAST OF OURAY, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) APPROXIMATELY 625' TO LEASE LINE	16. No. of Acres in Lease 516.80	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 485'	19. Proposed Depth 8860 MD 8400 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5144 GL	22. Approximate date work will start 06/26/2009	17. Spacing Unit dedicated to this well 316.80
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY SCHNEEBECK DULNOAN Ph: 720-929-6007	Date 06/01/2009
--	---	--------------------

Title
STAFF REGULATORY ANALYST

Approved by (Signature) <i>Stephanie J Howard</i>	Name (Printed/Typed) Stephanie J Howard	Date 12/15/09
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)



Electronic Submission #70384 verified by the BLM Well Information System **NOTICE OF APPROVAL**
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 06/03/2009 (09GXJ4692AE)

RECEIVED

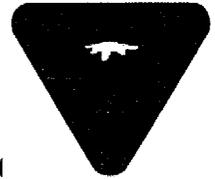
DEC 23 2009

** BLM REVISED **
DIV. OF OIL, GAS & MINING

09SX50521A NOS: 01-30-2009



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



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore **Location:** Lot 6, Sec 6, T10S, R23E (S)
SESW, Sec 6, T10S, R23E (B)
Well No: Bonanza 1023-6N4BS **Lease No:** UTU-38419
API No: 43-047-50455 **Agreement:** N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 02/05/07. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 02/05/12 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

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

**RECEIVED
DEC 23 2009**

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

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

**SITE SPECIFIC COAs:
DOI-BLM-UT-G010-2009-0607-SCX**

- The following seed mix will be used for Interim Reclamation

Interim Reclamation seed mix

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

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

- The existing topsoil pile will be moved and added to the new topsoil pile on the west side of the well pad.
- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticide Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.
- As agreed upon the onsite the pit will be lined with double felt.

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DEC 23 2009

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

SITE SPECIFIC DOWNHOLE COAs:

- Well location TD bottom footage hole location information on the completion form 3160-4 Well Completion or Recompletion Report and Log shall match and be in agreement with the (from the actual drilling directional survey well departure values for the TD bottom hole location.
- A copy of the as drilled directional survey shall be submitted to the BLM Vernal Field Office. Submit the MWD-GR survey from the directional/horizontal drilling operations, hard copy or electronically.
- The operator must notify any active gilsonite operation located within 2 miles of the location 48 hours prior to any surface blasting for this well.
- Conductor casing shall be set into competent formation.

toc_1200_operDrlgPlan#4
CsgSurf_set_2100
(oper Birds Nest Aquifer approx 1400 ft)
KerrMcGee apd_coa Downhole

- Surface casing cement shall be brought up and into the surface. Top of Cmnt is to reach surf.
- Production casing cement shall be brought up and into the surface casing. Production casing minimum cement top is 1200 ft. The minimum cement top is approximately 0800 ft above the surface casing shoe.
Cmnt Top (TOC) standard will place cmnt behind casing across formation lost circulation zone, Birds Nest Zone.
Surface casing setting depth stated in APD is 2100 ft (approximately).
COA specification fulfills operators performance standard stated in APD (where operators toc is calc'd with an excess to reach surface).
- Operator is to notify BLM Vernal Field Office and active gilsonite mining operator (or lease holder) located within a 2 mile radius, 48 hours prior to pad explosives blasting. Well is not close to gilsonite vein, but on trend to gilsonite vein deposits.
- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Kerr McGee Oil & Gas Standard Operating Procedures (SOP version: July 28, 2008). The operators drilling plan items 3 to 9 reference the SOP. Kerr McGee shall adhere to the referenced requirements in the SOP. Kerr McGee and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

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- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface.
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 45 feet.
All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

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

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

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SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, L. P.**

Well Name: **BONANZA 1023-6N4BS**

Api No: **43-047-50455** Lease Type: **FEDERAL**

Section **06** Township **10S** Range **23E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **04/06/2010**

Time **2:30 PM**

How **DRY**

Drilling will Commence: _____

Reported by **JAMES GOBER**

Telephone # **(435) 828-7024**

Date **04/07/2010** Signed **CHD**

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750452	BONANZA 1023-6M1BS		NWSW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17578</i>	4/6/2010		<i>4/28/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 4/6/2010 AT 10:30 HRS. <i>BHL=SWSW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750455	BONANZA 1023-6N4BS		NWSW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17579</i>	4/6/2010		<i>4/28/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 4/6/2010 AT 14:30 HRS. <i>BHL=SESW</i>							

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)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

4/7/2010

Date

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APR 07 2010

DIV OF OIL GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
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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 1023-6N4BS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 6 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 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: 4/6/2010	<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" SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 4/6/2010 AT 14:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 07, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/7/2010	

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Bonanza 1023-6N4BS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 6 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: 4/15/2010 <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 surface casing size for this well from FROM: 9-5/8" TO: 8-5/8". Additionally, Kerr-McGee requests to change the cement program for this well due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. 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.

Accepted by the Utah Division of Oil, Gas and Mining

Date: April 08, 2010

By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/6/2010	



**KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,010	28.00	IJ-55	LTC	1.00	2.00	6.12
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 8,860	11.60	I-80	BTC	2.42	1.25	3.10

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

D.F. = 2.68

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

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

(Burst Assumptions: TD = 11.6 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

MASP 3,124 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 5,244 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
			+ 0.25 pps flocele				
Option 1	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				
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	1,510'	65/35 Poz + 6% Gel + 10 pps gilsonite	290	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
Option 2	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	6,210'	Premium Lite II +0.25 pps	540	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,650'	50/50 Poz/G + 10% salt + 2% gel	650	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: UTU 38419
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
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1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Bonanza 1023-6N4BS
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 6 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 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: 5/19/2010	<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 2080' TO 8845' ON MAY 17, 2010. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 564 SX CLASS G PREM LITE @ 11.9 PPG, 2.36 YD. TAILED CEMENT W/ 568 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YD. DISPLACED W/ 137.2 BBLS WATER, BUMPED PLUG, FLOATS HELD. NO CEMENT TO SURFACE. FINAL LIFT 1854 PSI. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #146 ON MAY 19, 2010 @ 19:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 24, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/20/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
---	--

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: Bonanza 1023-6N4BS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
---	---

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: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 6 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
--	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input 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: 5/19/2010	<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 2080' TO 8845' ON MAY 17, 2010. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 564 SX CLASS G PREM LITE @ 11.9 PPG, 2.36 YD. TAILED CEMENT W/ 568 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YD. DISPLACED W/ 137.2 BBLS WATER, BUMPED PLUG, FLOATS HELD. NO CEMENT TO SURFACE. FINAL LIFT 1854 PSI. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #146 ON MAY 19, 2010 @ 19:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 24, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/20/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
	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 1023-6N4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
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: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/25/2010	<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 checked="" 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.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON JULY 25, 2010 AT 9:30 A.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
 July 27, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/26/2010	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU38419

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

2. Name of Operator: KERR-MCGEE OIL&GAS ONSHORELLP Contact: ANDY LYTLE
 Email: andrew.lytle@anadarko.com

3. Address: P.O. BOX 173779 DENVER, CO 80217 3a. Phone No. (include area code) Ph: 720-929-6100

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NWSW 1531FSL 736FWL 39.97489 N Lat, 109.37551 W Lon
 At top prod interval reported below SESW 644FSL 2021FWL
 At total depth ⁶¹⁴ SESW 618FSL 2045FWL

6. If Indian, Allottee or Tribe Name
 7. Unit or CA Agreement Name and No.
 8. Lease Name and Well No. BONANZA 1023-6N4BS
 9. API Well No. 43-047-50455
 10. Field and Pool, or Exploratory NATURAL BUTTES
 11. Sec., T., R., M., or Block and Survey or Area Sec 6 T10S R23E Mer SLB
 12. County or Parish UINTAH 13. State UT
 14. Date Spudded 04/06/2010 15. Date T.D. Reached 05/17/2010 16. Date Completed D & A Ready to Prod. 07/25/2010
 17. Elevations (DF, KB, RT, GL)* 5144 GL
 18. Total Depth: MD 8845 TVD 8477 19. Plug Back T.D.: MD 8812 TVD 8448 ⁸³⁹⁴
 20. Depth Bridge Plug Set: MD TVD
 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CCL/GR/CBL-RPM
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
11.000	8.625 IJ55	28.0		2055		500			
7.875	4.500 180	11.6		8835		1132			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375		7856						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	6592	8606	6592 TO 8606	0.360	240	OPEN
B)						
C)						
D)						

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	6592	8606	6592 TO 8606	0.360	240	OPEN

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

Depth Interval	Amount and Type of Material
6592 TO 8606	PUMP 8,907 BBLs SLICK H2O & 348,186 LBS 30/50 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/25/2010	07/27/2010	24	→	0.0	1596.0	672.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1325	2000.0	→	0	1596	672		PGW	

28a. Production - Interval B

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

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

ELECTRONIC SUBMISSION #92174 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECEIVED
SEP 09 2010

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Mcas. Depth
GREEN RIVER	1101		TD		
BIRD'S NEST	1367				
MAHOGANY	1728				
WASATCH	4479	6577			
MESAVERDE	6577	8845			

32. Additional remarks (include plugging procedure):

ATTACHED IS THE DRILLING/COMPLETION CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

33. Circle enclosed attachments:

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

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

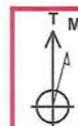
**Electronic Submission #92174 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

Signature  (Electronic Submission) Date 09/01/2010

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

Project: UINTAH COUNTY, UTAH (nad 27)
 Site: Bonanza 1023-6L Pad
 Well: BONANZA 1023-6N4BS
 Wellbore: BONANZA 1023-6N4BS
 Section: SECTION 6 T10S R22E
 SHL: 1531 FSL 736 FWL
 Design: BONANZA 1023-6N4BS
 Latitude: 39° 58' 29.618 N
 Longitude: 109° 22' 31.850 W
 GL: 5144.00
 KB: WELL @ 5158.00ft (Original Well Elev)



Azimuths to True North
 Magnetic North: 11.18°

Magnetic Field
 Strength: 52458.1snT
 Dip Angle: 65.92°
 Date: 5/4/2010
 Model: BGGM2009

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1101.00	1120.30	GREEN RIVER
4111.00	4478.01	WASATCH
7209.00	7576.17	MESAVERDE

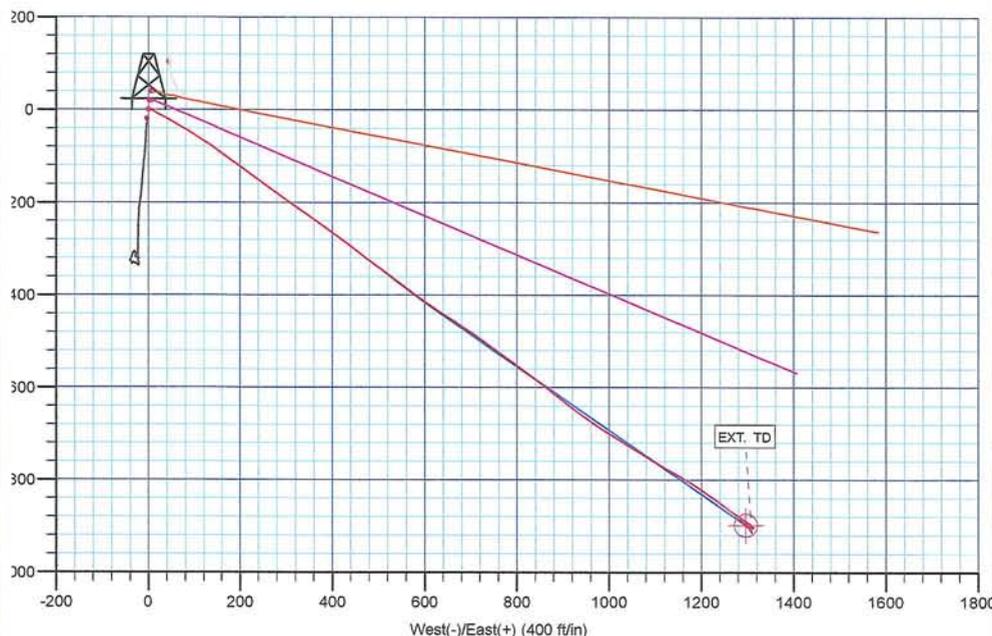
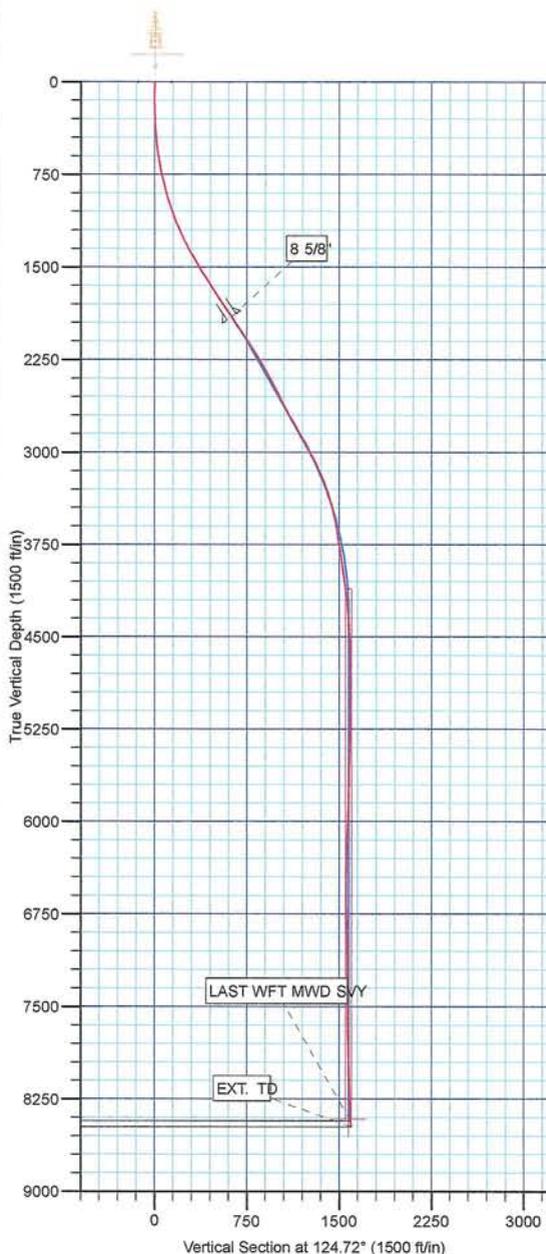
CASING DETAILS			
TVD	MD	Name	Size
1904.52	2050.90	8 5/8"	8.62

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
2031.00	33.75	127.45	1887.98	-346.33	508.73	0.00	0.00	615.40	Start 120.00 hold at 2031.00 MD
2151.00	33.75	127.45	1987.75	-386.87	561.65	0.00	0.00	682.00	Start DLS 3.00 TFO -162.32
2299.01	29.55	124.72	2113.73	-432.68	624.32	3.00	-162.32	759.60	Start 901.83 hold at 2299.01 MD
3200.84	29.55	124.72	2898.28	-685.96	989.87	0.00	0.00	1204.32	Start Drop -2.00
4678.17	0.00	0.00	4311.00	-898.13	1296.10	2.00	180.00	1576.87	Start 4103.00 hold at 4678.17 MD
8781.17	0.00	0.00	8414.00	-898.13	1296.10	0.00	0.00	1576.87	TD at 8781.17

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8414.00	-898.13	1296.10	39° 58' 20.741 N	109° 22' 15.200 W	Circle (Radius: 25.00)

WELL DETAILS: BONANZA 1023-6N4BS						
+N/-S	+E/-W	Northing	Ground Level: Easting	5144.00 Latitude	Longitude	Slot
0.00	0.00	14521048.18	2095544.80	39° 58' 29.618 N	109° 22' 31.850 W	

- LEGEND**
- Bonanza 1023-6L EXISTING, Bonanza 1023-6L EXISTING, Bonanza 1023-6L EXISTING V0
 - BONANZA 1023-6N1BS, BONANZA 1023-6N1BS, BONANZA 1023-6N1BS V0
 - BONANZA 1023-6N1AS, BONANZA 1023-6N1AS, BONANZA 1023-6N1AS V0
 - BONANZA 1023-6N1AS, BONANZA 1023-6N1AS, PLAN #1 3-15-10 RHS V0
 - BONANZA 1023-6N4BS, BONANZA 1023-6N4BS, PLAN #1 3-15-10 RHS V0
 - BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, BONANZA 1023-6N1CS V0
 - BONANZA 1023-6N1CS, BONANZA 1023-6N1CS, PLAN #1 3-15-10 RHS V0
 - BONANZA 1023-6N4BS
 - WEATHERFORD MWD SVY



Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N4BS
Wellbore: BONANZA 1023-6N4BS
Design: BONANZA 1023-6N4BS

Local Co-ordinate Reference: Well BONANZA 1023-6N4BS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

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

Site	Bonanza 1023-6L Pad, SECTION 6 T10S R22E				
Site Position:		Northing:	14,521,029.19ft	Latitude:	39° 58' 29.431 N
From:	Lat/Long	Easting:	2,095,542.07ft	Longitude:	109° 22' 31.890 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.04 °

Well	BONANZA 1023-6N4BS					
Well Position	+N/-S	0.00 ft	Northing:	14,521,048.18 ft	Latitude:	39° 58' 29.618 N
	+E/-W	0.00 ft	Easting:	2,095,544.80 ft	Longitude:	109° 22' 31.850 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,144.00 ft

Wellbore	BONANZA 1023-6N4BS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/4/2010	11.18	65.92	52,458

Design	BONANZA 1023-6N4BS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	124.72	

Survey Program	Date 5/17/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
140.00	8,845.00	WEATHERFORD MWD SVY (BONANZA	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	0.50	29.58	140.00	0.53	0.30	-0.05	0.36	0.36	0.00
236.00	1.44	95.33	235.99	0.78	1.71	0.96	1.37	0.98	68.49
332.00	2.88	108.83	331.92	-0.11	5.19	4.33	1.58	1.50	14.06
427.00	4.75	119.58	426.70	-2.82	10.87	10.54	2.10	1.97	11.32
523.00	6.81	120.45	522.21	-7.67	19.24	20.18	2.15	2.15	0.91
618.00	8.81	119.08	616.32	-14.06	30.45	33.04	2.11	2.11	-1.44
713.00	11.25	118.95	709.86	-22.08	44.92	49.50	2.57	2.57	-0.14
809.00	13.69	119.95	803.59	-32.29	62.96	70.14	2.55	2.54	1.04
905.00	15.81	120.33	896.42	-44.56	84.09	94.50	2.21	2.21	0.40
1,000.00	17.75	122.95	987.37	-58.98	107.42	121.88	2.19	2.04	2.76
1,096.00	19.94	123.70	1,078.22	-76.02	133.32	152.88	2.30	2.28	0.78
1,191.00	23.38	124.33	1,166.50	-95.64	162.37	187.94	3.63	3.62	0.66

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N4BS
Wellbore: BONANZA 1023-6N4BS
Design: BONANZA 1023-6N4BS

Local Co-ordinate Reference: Well BONANZA 1023-6N4BS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

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)
1,287.00	25.38	125.45	1,253.94	-118.32	194.87	227.56	2.14	2.08	1.17
1,383.00	27.88	126.45	1,339.75	-143.59	229.69	270.57	2.65	2.60	1.04
1,479.00	30.69	125.58	1,423.47	-171.19	267.67	317.52	2.96	2.93	-0.91
1,574.00	30.94	124.83	1,505.06	-199.24	307.44	366.18	0.48	0.26	-0.79
1,670.00	32.19	125.20	1,586.85	-228.08	348.59	416.43	1.32	1.30	0.39
1,765.00	33.13	126.08	1,666.83	-257.96	390.25	467.69	1.11	0.99	0.93
1,860.00	33.69	126.08	1,746.13	-288.76	432.53	519.98	0.59	0.59	0.00
1,955.00	34.19	127.45	1,824.95	-320.51	475.01	572.99	0.96	0.53	1.44
2,031.00	33.75	127.45	1,887.98	-346.33	508.73	615.40	0.58	-0.58	0.00
2,141.00	34.20	126.87	1,979.20	-383.46	557.72	676.82	0.50	0.41	-0.53
2,231.00	34.72	124.90	2,053.41	-413.30	598.97	727.73	1.37	0.58	-2.19
2,322.00	32.67	122.60	2,129.12	-441.37	640.93	778.19	2.65	-2.25	-2.53
2,413.00	31.75	123.83	2,206.12	-467.93	681.51	826.68	1.24	-1.01	1.35
2,503.00	30.69	125.95	2,283.08	-494.60	719.77	873.32	1.70	-1.18	2.36
2,594.00	28.94	125.58	2,362.03	-521.04	756.48	918.56	1.93	-1.92	-0.41
2,685.00	27.44	126.45	2,442.24	-546.31	791.26	961.53	1.71	-1.65	0.96
2,775.00	26.75	126.45	2,522.36	-570.67	824.23	1,002.51	0.77	-0.77	0.00
2,866.00	27.31	127.33	2,603.42	-595.49	857.30	1,043.83	0.76	0.62	0.97
2,957.00	28.81	128.58	2,683.72	-621.83	891.05	1,086.56	1.77	1.65	1.37
3,047.00	29.88	127.33	2,762.17	-648.95	925.83	1,130.60	1.37	1.19	-1.39
3,138.00	30.72	124.61	2,840.75	-675.90	962.98	1,176.49	1.77	0.92	-2.99
3,229.00	29.88	122.08	2,919.32	-701.14	1,001.32	1,222.38	1.68	-0.92	-2.78
3,320.00	26.63	121.45	2,999.46	-723.82	1,037.94	1,265.39	3.59	-3.57	-0.69
3,410.00	25.88	121.45	3,080.18	-744.60	1,071.90	1,305.14	0.83	-0.83	0.00
3,501.00	23.88	121.20	3,162.73	-764.50	1,104.60	1,343.36	2.20	-2.20	-0.27
3,591.00	21.19	120.08	3,245.85	-782.10	1,134.26	1,377.76	3.03	-2.99	-1.24
3,682.00	18.69	119.70	3,331.39	-797.57	1,161.16	1,408.68	2.75	-2.75	-0.42
3,772.00	14.94	123.08	3,417.53	-811.05	1,183.42	1,434.65	4.30	-4.17	3.76
3,863.00	13.19	124.83	3,505.80	-823.38	1,201.77	1,456.76	1.98	-1.92	1.92
3,953.00	10.56	124.83	3,593.86	-833.96	1,216.97	1,475.28	2.92	-2.92	0.00
4,044.00	8.44	123.33	3,683.61	-842.39	1,229.40	1,490.30	2.35	-2.33	-1.65
4,135.00	8.38	127.08	3,773.63	-850.06	1,240.27	1,503.60	0.61	-0.07	4.12
4,225.00	8.44	129.33	3,862.66	-858.20	1,250.61	1,516.73	0.37	0.07	2.50
4,316.00	8.38	124.33	3,952.69	-866.17	1,261.25	1,530.02	0.81	-0.07	-5.49
4,407.00	7.50	123.95	4,042.81	-873.23	1,271.65	1,542.59	0.97	-0.97	-0.42
4,497.00	6.69	123.95	4,132.12	-879.43	1,280.88	1,553.71	0.90	-0.90	0.00
4,588.00	5.88	124.83	4,222.57	-885.06	1,289.10	1,563.67	0.90	-0.89	0.97
4,678.00	5.63	123.20	4,312.12	-890.11	1,296.58	1,572.69	0.33	-0.28	-1.81
4,769.00	4.50	127.70	4,402.76	-894.74	1,303.14	1,580.72	1.32	-1.24	4.95
4,860.00	2.94	134.83	4,493.57	-898.56	1,307.62	1,586.58	1.78	-1.71	7.84
4,950.00	1.19	141.95	4,583.51	-900.93	1,309.83	1,589.75	1.96	-1.94	7.91
5,041.00	1.69	136.20	4,674.48	-902.64	1,311.34	1,591.96	0.57	0.55	-6.32
5,132.00	0.06	61.58	4,765.47	-903.59	1,312.31	1,593.30	1.84	-1.79	-82.00
5,223.00	0.06	224.58	4,856.47	-903.60	1,312.32	1,593.31	0.13	0.00	179.12
5,313.00	0.06	164.58	4,946.47	-903.68	1,312.30	1,593.34	0.07	0.00	-66.67
5,404.00	0.30	149.18	5,037.47	-903.93	1,312.43	1,593.60	0.27	0.26	-16.92
5,495.00	0.81	271.08	5,128.46	-904.12	1,311.91	1,593.28	1.10	0.56	133.96
5,585.00	0.69	246.58	5,218.46	-904.32	1,310.78	1,592.46	0.38	-0.13	-27.22
5,676.00	1.50	282.58	5,309.44	-904.28	1,309.12	1,591.07	1.13	0.89	39.56
5,767.00	2.31	299.20	5,400.39	-903.13	1,306.35	1,588.14	1.07	0.89	18.26
5,857.00	1.88	292.33	5,490.33	-901.68	1,303.40	1,584.89	0.55	-0.48	-7.63
5,948.00	1.44	284.45	5,581.29	-900.83	1,300.91	1,582.36	0.54	-0.48	-8.66
6,039.00	1.31	264.58	5,672.26	-900.64	1,298.77	1,580.49	0.54	-0.14	-21.84
6,129.00	1.56	301.20	5,762.24	-900.10	1,296.70	1,578.49	1.04	0.28	40.69

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N4BS
Wellbore: BONANZA 1023-6N4BS
Design: BONANZA 1023-6N4BS

Local Co-ordinate Reference: Well BONANZA 1023-6N4BS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

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)
6,221.00	2.81	320.95	5,854.17	-897.70	1,294.21	1,575.07	1.57	1.36	21.47
6,311.00	2.44	320.33	5,944.08	-894.52	1,291.60	1,571.11	0.41	-0.41	-0.69
6,402.00	2.06	321.83	6,035.01	-891.74	1,289.35	1,567.68	0.42	-0.42	1.65
6,493.00	1.75	321.53	6,125.96	-889.37	1,287.47	1,564.78	0.34	-0.34	-0.33
6,583.00	1.63	311.83	6,215.92	-887.44	1,285.66	1,562.20	0.34	-0.13	-10.78
6,674.00	0.88	318.83	6,306.89	-886.05	1,284.24	1,560.24	0.84	-0.82	7.69
6,764.00	0.56	307.45	6,396.89	-885.26	1,283.44	1,559.13	0.39	-0.36	-12.64
6,855.00	0.44	297.95	6,487.88	-884.82	1,282.77	1,558.34	0.16	-0.13	-10.44
6,946.00	0.31	195.08	6,578.88	-884.90	1,282.40	1,558.07	0.65	-0.14	-113.04
7,036.00	0.50	173.58	6,668.88	-885.52	1,282.38	1,558.41	0.27	0.21	-23.89
7,127.00	1.31	160.58	6,759.87	-886.90	1,282.77	1,559.52	0.91	0.89	-14.29
7,218.00	1.38	122.70	6,850.84	-888.47	1,284.04	1,561.45	0.96	0.08	-41.63
7,308.00	1.75	67.00	6,940.82	-888.52	1,286.22	1,563.27	1.66	0.41	-61.89
7,399.00	1.75	71.33	7,031.77	-887.53	1,288.81	1,564.84	0.15	0.00	4.76
7,490.00	1.63	78.58	7,122.73	-886.83	1,291.40	1,566.57	0.27	-0.13	7.97
7,580.00	0.19	40.70	7,212.72	-886.47	1,292.75	1,567.47	1.65	-1.60	-42.09
7,671.00	0.13	127.20	7,303.72	-886.41	1,292.93	1,567.59	0.25	-0.07	95.05
7,762.00	0.31	141.83	7,394.72	-886.67	1,293.16	1,567.93	0.21	0.20	16.08
7,853.00	0.69	175.83	7,485.72	-887.41	1,293.36	1,568.51	0.51	0.42	37.36
7,943.00	0.69	161.95	7,575.71	-888.47	1,293.56	1,569.28	0.19	0.00	-15.42
8,034.00	1.00	170.33	7,666.70	-889.77	1,293.87	1,570.27	0.37	0.34	9.21
8,125.00	1.25	146.70	7,757.68	-891.38	1,294.55	1,571.75	0.57	0.27	-25.97
8,216.00	1.75	141.20	7,848.65	-893.29	1,295.96	1,574.00	0.57	0.55	-6.04
8,306.00	2.13	150.08	7,938.60	-895.81	1,297.66	1,576.83	0.54	0.42	9.87
8,397.00	1.94	149.33	8,029.54	-898.61	1,299.29	1,579.76	0.21	-0.21	-0.82
8,488.00	2.01	146.12	8,120.49	-901.25	1,300.96	1,582.64	0.14	0.08	-3.53
8,578.00	2.19	146.58	8,210.43	-904.00	1,302.79	1,585.71	0.20	0.20	0.51
8,669.00	2.25	145.58	8,301.36	-906.93	1,304.76	1,588.99	0.08	0.07	-1.10
8,759.00	2.81	145.33	8,391.27	-910.20	1,307.01	1,592.71	0.62	0.62	-0.28
PBHL_BONANZA 1023-6N4BS(625 FSL 2035 FWL)									
8,780.92	2.77	146.16	8,413.17	-911.08	1,307.61	1,593.70	0.25	-0.17	3.77
LAST WFT MWD SVY									
8,795.00	2.75	146.70	8,427.23	-911.64	1,307.98	1,594.33	0.25	-0.17	3.86
EXT. TD									
8,845.00	2.75	146.70	8,477.17	-913.65	1,309.30	1,596.56	0.00	0.00	0.00

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
8,795.00	8,427.23	-911.64	1,307.98	LAST WFT MWD SVY
8,845.00	8,477.17	-913.65	1,309.30	EXT. TD

Checked By: _____ Approved By: _____ Date: _____



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

Bonanza 1023-6L Pad

BONANZA 1023-6N4BS

BONANZA 1023-6N4BS

Survey: WEATHERFORD MWD SVY

Survey Report - Geographic

17 May, 2010



Weatherford®

Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well BONANZA 1023-6N4BS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5158.00ft (Original Well Elev)
Site:	Bonanza 1023-6L Pad	MD Reference:	WELL @ 5158.00ft (Original Well Elev)
Well:	BONANZA 1023-6N4BS	North Reference:	True
Wellbore:	BONANZA 1023-6N4BS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6N4BS	Database:	EDM 2003.21 Single User Db

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

Site	Bonanza 1023-6L Pad, SECTION 6 T10S R22E				
Site Position:		Northing:	14,521,029.19 ft	Latitude:	39° 58' 29.431 N
From:	Lat/Long	Easting:	2,095,542.07 ft	Longitude:	109° 22' 31.890 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.04 °

Well	BONANZA 1023-6N4BS					
Well Position	+N/-S	0.00 ft	Northing:	14,521,048.18 ft	Latitude:	39° 58' 29.618 N
	+E/-W	0.00 ft	Easting:	2,095,544.80 ft	Longitude:	109° 22' 31.850 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	5,144.00 ft

Wellbore	BONANZA 1023-6N4BS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/4/2010	11.18	65.92	52,458

Design	BONANZA 1023-6N4BS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
		0.00	0.00	0.00	124.72

Survey Program	Date 5/17/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
140.00	8,845.00	WEATHERFORD MWD SVY (BONANZA	MWD	MWD - Standard	

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N4BS
Wellbore: BONANZA 1023-6N4BS
Design: BONANZA 1023-6N4BS

Local Co-ordinate Reference: Well BONANZA 1023-6N4BS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,521,048.18	2,095,544.80	39° 58' 29.618 N	109° 22' 31.850 W
140.00	0.50	29.58	140.00	0.53	0.30	14,521,048.72	2,095,545.10	39° 58' 29.624 N	109° 22' 31.847 W
236.00	1.44	95.33	235.99	0.78	1.71	14,521,049.00	2,095,546.50	39° 58' 29.626 N	109° 22' 31.828 W
332.00	2.88	108.83	331.92	-0.11	5.19	14,521,048.17	2,095,550.00	39° 58' 29.617 N	109° 22' 31.784 W
427.00	4.75	119.58	426.70	-2.82	10.87	14,521,045.56	2,095,555.73	39° 58' 29.591 N	109° 22' 31.711 W
523.00	6.81	120.45	522.21	-7.67	19.24	14,521,040.87	2,095,564.18	39° 58' 29.543 N	109° 22' 31.603 W
618.00	8.81	119.08	616.32	-14.06	30.45	14,521,034.68	2,095,575.51	39° 58' 29.479 N	109° 22' 31.459 W
713.00	11.25	118.95	709.86	-22.08	44.92	14,521,026.92	2,095,590.12	39° 58' 29.400 N	109° 22' 31.273 W
809.00	13.69	119.95	803.59	-32.29	62.96	14,521,017.05	2,095,608.34	39° 58' 29.299 N	109° 22' 31.042 W
905.00	15.81	120.33	896.42	-44.56	84.09	14,521,005.16	2,095,629.70	39° 58' 29.178 N	109° 22' 30.770 W
1,000.00	17.75	122.95	987.37	-58.98	107.42	14,520,991.17	2,095,653.28	39° 58' 29.035 N	109° 22' 30.470 W
1,096.00	19.94	123.70	1,078.22	-76.02	133.32	14,520,974.60	2,095,679.49	39° 58' 28.867 N	109° 22' 30.138 W
1,191.00	23.38	124.33	1,166.50	-95.64	162.37	14,520,955.51	2,095,708.89	39° 58' 28.673 N	109° 22' 29.764 W
1,287.00	25.38	125.45	1,253.94	-118.32	194.87	14,520,933.43	2,095,741.79	39° 58' 28.449 N	109° 22' 29.347 W
1,383.00	27.88	126.45	1,339.75	-143.59	229.69	14,520,908.80	2,095,777.07	39° 58' 28.199 N	109° 22' 28.900 W
1,479.00	30.69	125.58	1,423.47	-171.19	267.67	14,520,881.90	2,095,815.55	39° 58' 27.926 N	109° 22' 28.412 W
1,574.00	30.94	124.83	1,505.06	-199.24	307.44	14,520,854.57	2,095,855.82	39° 58' 27.649 N	109° 22' 27.901 W
1,670.00	32.19	125.20	1,586.85	-228.08	348.59	14,520,826.49	2,095,897.49	39° 58' 27.364 N	109° 22' 27.372 W
1,765.00	33.13	126.08	1,666.83	-257.96	390.25	14,520,797.38	2,095,939.69	39° 58' 27.069 N	109° 22' 26.837 W
1,860.00	33.69	126.08	1,746.13	-288.76	432.53	14,520,767.35	2,095,982.52	39° 58' 26.764 N	109° 22' 26.294 W
1,955.00	34.19	127.45	1,824.95	-320.51	475.01	14,520,736.38	2,096,025.58	39° 58' 26.450 N	109° 22' 25.748 W
2,031.00	33.75	127.45	1,887.98	-346.33	508.73	14,520,711.18	2,096,059.75	39° 58' 26.195 N	109° 22' 25.315 W
2,141.00	34.20	126.87	1,979.20	-383.46	557.72	14,520,674.95	2,096,109.41	39° 58' 25.828 N	109° 22' 24.686 W
2,231.00	34.72	124.90	2,053.41	-413.30	598.97	14,520,645.86	2,096,151.21	39° 58' 25.533 N	109° 22' 24.156 W
2,322.00	32.67	122.60	2,129.12	-441.37	640.93	14,520,618.57	2,096,193.66	39° 58' 25.256 N	109° 22' 23.617 W
2,413.00	31.75	123.83	2,206.12	-467.93	681.51	14,520,592.75	2,096,234.72	39° 58' 24.993 N	109° 22' 23.095 W
2,503.00	30.69	125.95	2,283.08	-494.60	719.77	14,520,566.78	2,096,273.47	39° 58' 24.730 N	109° 22' 22.604 W
2,594.00	28.94	125.58	2,362.03	-521.04	756.48	14,520,541.01	2,096,310.65	39° 58' 24.468 N	109° 22' 22.132 W
2,685.00	27.44	126.45	2,442.24	-546.31	791.26	14,520,516.37	2,096,345.88	39° 58' 24.218 N	109° 22' 21.686 W
2,775.00	26.75	126.45	2,522.36	-570.67	824.23	14,520,492.63	2,096,379.29	39° 58' 23.978 N	109° 22' 21.262 W
2,866.00	27.31	127.33	2,603.42	-595.49	857.30	14,520,468.41	2,096,412.81	39° 58' 23.732 N	109° 22' 20.837 W
2,957.00	28.81	128.58	2,683.72	-621.83	891.05	14,520,442.69	2,096,447.03	39° 58' 23.472 N	109° 22' 20.404 W
3,047.00	29.88	127.33	2,762.17	-648.95	925.83	14,520,416.21	2,096,482.30	39° 58' 23.204 N	109° 22' 19.957 W
3,138.00	30.72	124.61	2,840.75	-675.90	962.98	14,520,389.94	2,096,519.94	39° 58' 22.938 N	109° 22' 19.480 W
3,229.00	29.88	122.08	2,919.32	-701.14	1,001.32	14,520,365.40	2,096,558.73	39° 58' 22.688 N	109° 22' 18.987 W
3,320.00	26.63	121.45	2,999.46	-723.82	1,037.94	14,520,343.39	2,096,595.75	39° 58' 22.464 N	109° 22' 18.517 W
3,410.00	25.88	121.45	3,080.18	-744.60	1,071.90	14,520,323.24	2,096,630.09	39° 58' 22.258 N	109° 22' 18.080 W
3,501.00	23.88	121.20	3,162.73	-764.50	1,104.60	14,520,303.93	2,096,663.15	39° 58' 22.062 N	109° 22' 17.660 W
3,591.00	21.19	120.08	3,245.85	-782.10	1,134.26	14,520,286.88	2,096,693.13	39° 58' 21.888 N	109° 22' 17.279 W
3,682.00	18.69	119.70	3,331.39	-797.57	1,161.16	14,520,271.90	2,096,720.30	39° 58' 21.735 N	109° 22' 16.934 W
3,772.00	14.94	123.08	3,417.53	-811.05	1,183.42	14,520,258.83	2,096,742.80	39° 58' 21.602 N	109° 22' 16.648 W
3,863.00	13.19	124.83	3,505.80	-823.38	1,201.77	14,520,246.83	2,096,761.38	39° 58' 21.480 N	109° 22' 16.412 W
3,953.00	10.56	124.83	3,593.86	-833.96	1,216.97	14,520,236.53	2,096,776.77	39° 58' 21.375 N	109° 22' 16.217 W
4,044.00	8.44	123.33	3,683.61	-842.39	1,229.40	14,520,228.33	2,096,789.34	39° 58' 21.292 N	109° 22' 16.057 W
4,135.00	8.38	127.08	3,773.63	-850.06	1,240.27	14,520,220.86	2,096,800.35	39° 58' 21.216 N	109° 22' 15.918 W
4,225.00	8.44	129.33	3,862.66	-858.20	1,250.61	14,520,212.91	2,096,810.84	39° 58' 21.136 N	109° 22' 15.785 W
4,316.00	8.38	124.33	3,952.69	-866.17	1,261.25	14,520,205.13	2,096,821.62	39° 58' 21.057 N	109° 22' 15.648 W
4,407.00	7.50	123.95	4,042.81	-873.23	1,271.65	14,520,198.27	2,096,832.15	39° 58' 20.987 N	109° 22' 15.514 W
4,497.00	6.69	123.95	4,132.12	-879.43	1,280.88	14,520,192.23	2,096,841.49	39° 58' 20.926 N	109° 22' 15.396 W
4,588.00	5.88	124.83	4,222.57	-885.06	1,289.10	14,520,186.76	2,096,849.81	39° 58' 20.870 N	109° 22' 15.290 W
4,678.00	5.63	123.20	4,312.12	-890.11	1,296.58	14,520,181.84	2,096,857.38	39° 58' 20.820 N	109° 22' 15.194 W
4,769.00	4.50	127.70	4,402.76	-894.74	1,303.14	14,520,177.34	2,096,864.02	39° 58' 20.774 N	109° 22' 15.110 W
4,860.00	2.94	134.83	4,493.57	-898.56	1,307.62	14,520,173.59	2,096,868.57	39° 58' 20.737 N	109° 22' 15.052 W
4,950.00	1.19	141.95	4,583.51	-900.93	1,309.83	14,520,171.27	2,096,870.83	39° 58' 20.713 N	109° 22' 15.024 W
5,041.00	1.69	136.20	4,674.48	-902.64	1,311.34	14,520,169.58	2,096,872.37	39° 58' 20.696 N	109° 22' 15.005 W

Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N4BS
Wellbore: BONANZA 1023-6N4BS
Design: BONANZA 1023-6N4BS

Local Co-ordinate Reference: Well BONANZA 1023-6N4BS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,132.00	0.06	61.58	4,765.47	-903.59	1,312.31	14,520,168.65	2,096,873.36	39° 58' 20.687 N	109° 22' 14.992 W
5,223.00	0.06	224.58	4,856.47	-903.60	1,312.32	14,520,168.64	2,096,873.37	39° 58' 20.687 N	109° 22' 14.992 W
5,313.00	0.06	164.58	4,946.47	-903.68	1,312.30	14,520,168.56	2,096,873.35	39° 58' 20.686 N	109° 22' 14.992 W
5,404.00	0.30	149.18	5,037.47	-903.93	1,312.43	14,520,168.32	2,096,873.49	39° 58' 20.684 N	109° 22' 14.991 W
5,495.00	0.81	271.08	5,128.46	-904.12	1,311.91	14,520,168.11	2,096,872.97	39° 58' 20.682 N	109° 22' 14.997 W
5,585.00	0.69	246.58	5,218.46	-904.32	1,310.78	14,520,167.89	2,096,871.84	39° 58' 20.680 N	109° 22' 15.012 W
5,676.00	1.50	282.58	5,309.44	-904.28	1,309.12	14,520,167.90	2,096,870.17	39° 58' 20.680 N	109° 22' 15.033 W
5,767.00	2.31	299.20	5,400.39	-903.13	1,306.35	14,520,169.01	2,096,867.39	39° 58' 20.691 N	109° 22' 15.069 W
5,857.00	1.88	292.33	5,490.33	-901.68	1,303.40	14,520,170.40	2,096,864.42	39° 58' 20.706 N	109° 22' 15.107 W
5,948.00	1.44	284.45	5,581.29	-900.83	1,300.91	14,520,171.20	2,096,861.91	39° 58' 20.714 N	109° 22' 15.139 W
6,039.00	1.31	264.58	5,672.26	-900.64	1,298.77	14,520,171.35	2,096,859.77	39° 58' 20.716 N	109° 22' 15.166 W
6,129.00	1.56	301.20	5,762.24	-900.10	1,296.70	14,520,171.85	2,096,857.68	39° 58' 20.721 N	109° 22' 15.193 W
6,221.00	2.81	320.95	5,854.17	-897.70	1,294.21	14,520,174.21	2,096,855.15	39° 58' 20.745 N	109° 22' 15.225 W
6,311.00	2.44	320.33	5,944.08	-894.52	1,291.60	14,520,177.35	2,096,852.48	39° 58' 20.777 N	109° 22' 15.258 W
6,402.00	2.06	321.83	6,035.01	-891.74	1,289.35	14,520,180.08	2,096,850.18	39° 58' 20.804 N	109° 22' 15.287 W
6,493.00	1.75	321.53	6,125.96	-889.37	1,287.47	14,520,182.42	2,096,848.26	39° 58' 20.827 N	109° 22' 15.311 W
6,583.00	1.63	311.83	6,215.92	-887.44	1,285.66	14,520,184.32	2,096,846.42	39° 58' 20.847 N	109° 22' 15.334 W
6,674.00	0.88	318.83	6,306.89	-886.05	1,284.24	14,520,185.68	2,096,844.97	39° 58' 20.860 N	109° 22' 15.353 W
6,764.00	0.56	307.45	6,396.89	-885.26	1,283.44	14,520,186.45	2,096,844.15	39° 58' 20.868 N	109° 22' 15.363 W
6,855.00	0.44	297.95	6,487.88	-884.82	1,282.77	14,520,186.87	2,096,843.48	39° 58' 20.872 N	109° 22' 15.372 W
6,946.00	0.31	195.08	6,578.88	-884.90	1,282.40	14,520,186.79	2,096,843.11	39° 58' 20.872 N	109° 22' 15.376 W
7,036.00	0.50	173.58	6,668.88	-885.52	1,282.38	14,520,186.17	2,096,843.10	39° 58' 20.865 N	109° 22' 15.377 W
7,127.00	1.31	160.58	6,759.87	-886.90	1,282.77	14,520,184.80	2,096,843.52	39° 58' 20.852 N	109° 22' 15.372 W
7,218.00	1.38	122.70	6,850.84	-888.47	1,284.04	14,520,183.25	2,096,844.81	39° 58' 20.836 N	109° 22' 15.355 W
7,308.00	1.75	67.00	6,940.82	-888.52	1,286.22	14,520,183.24	2,096,846.99	39° 58' 20.836 N	109° 22' 15.327 W
7,399.00	1.75	71.33	7,031.77	-887.53	1,288.81	14,520,184.28	2,096,849.57	39° 58' 20.846 N	109° 22' 15.294 W
7,490.00	1.63	78.58	7,122.73	-886.83	1,291.40	14,520,185.02	2,096,852.14	39° 58' 20.853 N	109° 22' 15.261 W
7,580.00	0.19	40.70	7,212.72	-886.47	1,292.75	14,520,185.42	2,096,853.49	39° 58' 20.856 N	109° 22' 15.243 W
7,671.00	0.13	127.20	7,303.72	-886.41	1,292.93	14,520,185.47	2,096,853.67	39° 58' 20.857 N	109° 22' 15.241 W
7,762.00	0.31	141.83	7,394.72	-886.67	1,293.16	14,520,185.22	2,096,853.90	39° 58' 20.854 N	109° 22' 15.238 W
7,853.00	0.69	175.83	7,485.72	-887.41	1,293.36	14,520,184.48	2,096,854.11	39° 58' 20.847 N	109° 22' 15.236 W
7,943.00	0.69	161.95	7,575.71	-888.47	1,293.56	14,520,183.43	2,096,854.34	39° 58' 20.836 N	109° 22' 15.233 W
8,034.00	1.00	170.33	7,666.70	-889.77	1,293.87	14,520,182.13	2,096,854.66	39° 58' 20.823 N	109° 22' 15.229 W
8,125.00	1.25	146.70	7,757.68	-891.38	1,294.55	14,520,180.53	2,096,855.37	39° 58' 20.808 N	109° 22' 15.220 W
8,216.00	1.75	141.20	7,848.65	-893.29	1,295.96	14,520,178.65	2,096,856.82	39° 58' 20.789 N	109° 22' 15.202 W
8,306.00	2.13	150.08	7,938.60	-895.81	1,297.66	14,520,176.16	2,096,858.56	39° 58' 20.764 N	109° 22' 15.180 W
8,397.00	1.94	149.33	8,029.54	-898.61	1,299.29	14,520,173.40	2,096,860.24	39° 58' 20.736 N	109° 22' 15.159 W
8,488.00	2.01	146.12	8,120.49	-901.25	1,300.96	14,520,170.78	2,096,861.97	39° 58' 20.710 N	109° 22' 15.138 W
8,578.00	2.19	146.58	8,210.43	-904.00	1,302.79	14,520,168.07	2,096,863.84	39° 58' 20.683 N	109° 22' 15.114 W
8,669.00	2.25	145.58	8,301.36	-906.93	1,304.76	14,520,165.18	2,096,865.86	39° 58' 20.654 N	109° 22' 15.089 W
8,759.00	2.81	145.33	8,391.27	-910.20	1,307.01	14,520,161.95	2,096,868.18	39° 58' 20.622 N	109° 22' 15.060 W
PBHL_BONANZA 1023-6N4BS(625 FSL 2035 FWL)									
8,780.92	2.77	146.16	8,413.17	-911.08	1,307.61	14,520,161.08	2,096,868.79	39° 58' 20.613 N	109° 22' 15.053 W
LAST WFT MWD SVY									
8,795.00	2.75	146.70	8,427.23	-911.64	1,307.98	14,520,160.52	2,096,869.18	39° 58' 20.607 N	109° 22' 15.048 W
EXT. TD									
8,845.00	2.75	146.70	8,477.17	-913.65	1,309.30	14,520,158.54	2,096,870.53	39° 58' 20.587 N	109° 22' 15.031 W



Weatherford International Ltd.
Survey Report - Geographic



Company: ANADARKO PETROLEUM CORP.
Project: UINTAH COUNTY, UTAH (nad 27)
Site: Bonanza 1023-6L Pad
Well: BONANZA 1023-6N4BS
Wellbore: BONANZA 1023-6N4BS
Design: BONANZA 1023-6N4BS

Local Co-ordinate Reference: Well BONANZA 1023-6N4BS
TVD Reference: WELL @ 5158.00ft (Original Well Elev)
MD Reference: WELL @ 5158.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,795.00	8,427.23	-911.64	1,307.98	LAST WFT MWD SVY
8,845.00	8,477.17	-913.65	1,309.30	EXT. TD

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010	
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD		Rig Name No: ENSIGN 146/146, CAPSTAR 310/310
Event: DRILLING			Start Date: 4/8/2010		End Date: 5/19/2010
Active Datum: RKB @5,158.01ft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/13/2010	13:30 - 14:30	1.00	RDMO	01	E	P		RIG DOWN RIG. READY RIG TO MOVE.
	14:30 - 16:30	2.00	MIRU	01	C	P		MOVE RIG OVER HOLE #3. AND SET IN PITS AND BUILDINGS.
	16:30 - 0:00	7.50	MIRU	08	B	P		CHANGE OUT MOTOR AND TRANSMISSION ON RIG.
4/14/2010	0:00 - 1:00	1.00	MIRU	08	A	P		CHANGE ENGINE AND TRANSMISSION. FINISH FINAL INSTALL AND TEST.
	1:00 - 3:00	2.00	MIRU	01	B	P		FINISH RIG UP OF RIG.
	3:00 - 5:00	2.00	MIRU	14	A	P		NIPPLE UP BOWIE LINE, P/U 1.83 DEG. BENT HOUSE MOTOR 7/8 LOB, 4 STAGE. .16RPG. AND M/U NEW Q507F SN 7019011 W/ 7-18'S. INSTALL ROT HEAD RUBBER
	5:00 - 7:00	2.00	DRLSUR	02	D	P		DRILL 49'- 184'. SPUD 4/14/2010 05:00
	7:00 - 9:00	2.00	DRLSUR	06	A	P		LD 6" DCS AND P/U DIRECTIONAL TOOLS, INSTALL ROT HEAD RUBBER.
	9:00 - 10:00	1.00	DRLSUR	02	C	P		DRILL F/ 184' - 219' 10-15 K WOB 60-75 TABLE ROT 96 DH ROT 568 GPM OBP 850 OFBP 650
	10:00 - 15:00	5.00	DRLSUR	08	A	Z		WORK ON TOP DRIVE (BRAKE BROKEN)
	15:00 - 0:00	9.00	DRLSUR	02	C	P		DRILL F/ 219' - 836' 10-15 K WOB 60-75 TABLE ROT 96 DH ROT 568 GPM OBP 85 OFBP 650
								BUILDING ANGLE TO 15.81 DEG 120.33 AZI 65.6 AVERAGE ROP
4/15/2010	0:00 - 15:00	15.00	DRLSUR	02	C	P		DRILL F/ 836' - 1623' 15-20 K WOB 60-75 TABLE ROT 96 DH ROT 568 GPM OBP 1000 OFBP 800
	15:00 - 16:30	1.50	DRLSUR	05	F	X		BUILDING ANGLE TO 30.94 DEG 12124.83 AZI 49 AVERAGE ROP
	16:30 - 0:00	7.50	DRLSUR	02	C	P		WORK TIGHT HOLE PUT ON THE AIR PACKAGE AND CLEAN OUT HOLE
4/16/2010								DRILL F/ 1623' - 1941' 15-20 K WOB 60-75 TABLE ROT 96 DH ROT 568 GPM OBP 1000 OFBP 800
								BUILDING ANGLE TO 30.94 DEG 12124.83 AZI 49 AVERAGE ROP
	0:00 - 2:00	2.00	DRLSUR	02	C	P		DRILL F/ 1941' - 2030' 15-20 K WOB 60-75 TABLE ROT 96 DH ROT 568 GPM OBP 1000 OFBP 800
								BUILDING ANGLE TO 30.94 DEG 12124.83 AZI 49 AVERAGE ROP
	2:00 - 4:00	2.00	DRLSUR	08	A	Z		WORK ON RIG (FLOOR MOTOR)
	4:00 - 5:00	1.00	DRLSUR	02	C	P		DRILL F/ 1941' - 2080' T.D. 4-16-2010 @ 0500 15-20
								K WOB 60-75 TABLE ROT 96 DH ROT 568 GPM OBP 1000 OFBP 800
								BUILDING ANGLE TO 30.94 DEG 12124.83 AZI 49 AVERAGE ROP FINISHED 2.5
								FT LEFT AND 1 FT ABOVE LINE
								CIRCULATE AND CONDITION PRIOR TO LDDS
							LDDS BREAK MOTOR AND L/D MWD TOOL	
							RIG UP TO RUN CASING	
							RUN 46 JOINTS OF 8.625 28# J-55 CASING SHOE @ 2048' BAFFLE AT 2004'	
							RIG UP CEMENTERS	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010	
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD		Rig Name No: ENSIGN 146/146, CAPSTAR 310/310
Event: DRILLING			Start Date: 4/8/2010		End Date: 5/19/2010
Active Datum: RKB @5,158.01ft (above Mean Sea Leve) UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	20:30 - 22:30	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 110 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 100 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 125 BBLS OF WATER. 250 PSI OF LIFT @ 2 BBLS/MIN RATE. 1 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 800 PSI. FLOAT HELD. CEMENT FELL. PUMP 175 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN BACK SIDE. NO CEMENT TO SURFACE. WAIT TILL NEXT JOB TO TOP OUT.
	22:30 - 23:30	1.00	DRLSUR	14	A	P		CUT OFF AND HANG RISER AND AND ROT HEAD. INSTALL HANG OFF BAR. LAND CSG AND BREAK OFF LANDING JT. CUT OFF CSG COLLAR AND TACK CAP ON TOP OF CSG. BREAK DOWN BOWIE LINE. RELEASE RIG 4-16-2010 @ 23:30
5/13/2010	11:30 - 12:30	1.00	MIRU	01	C	P		SKID RIG OVER HOLE
	12:30 - 13:00	0.50	MIRU	21	E	Z		WAIT ON BOLT & WEDGE FOR WELLHEAD ADAPTER, PLATE ON BOLT WAS SHEARED FROM EXCESS TORQUE
	13:00 - 14:00	1.00	MIRU	14	A	P		NIPPLE UP BOP
	14:00 - 18:00	4.00	MIRU	15	A	P		TEST BOP RAMS, CHOKE, KILLINE, HCR TO 250 LOW, 5000 HIGH, ANNULAR 250 LOW, 2500 HIGH, CASING 1500 PSI
	18:00 - 21:00	3.00	DRLPRO	06	A	P		P/U MOTOR, BREAK & REDOPE MWD TOOLS, R.I.H TAG CMT. @ 1971 FT.
	21:00 - 21:30	0.50	DRLPRO	07	B	P		LEVEL DERRICK, INSTALL ROTATING HEAD
	21:30 - 23:00	1.50	DRLPRO	02	F	P		DRILL CMT, FLOAT & SHOE
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DRILL OUT F/ 2085 TO 2245 - 160 FT PER/HR. MW 8.5 VIS 27, WOB 20, RPM 40 MMRPM 141, GPM 515 PSI ON BTM 1300, OFF 900
5/14/2010	0:00 - 16:00	16.00	DRLPRO	02	D	P		DRILL & SLIDE F/ 2245 TO 4369 - 2124 FT. 133 FT. PER/HR. MW 8.5, VIS 27, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM 1550, OFF 1100
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL & SLIDE F/ 4369 TO 5469 - 1100 FT. 147 FT. PER/HR. MW 8.5, VIS 27, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM 1750, OFF 1300 - LOST RETURNS @ 5360 - PUMPED SWEEP GOT RETURNS, BEGAN MUD UP
5/15/2010	0:00 - 10:00	10.00	DRLPRO	02	D	P		DRILL & SLIDE F/ 5469 TO 6229 - 760 FT. 76 FT. PER HR. MW 10.2, VIS 36, WOB 20, RPM 40, MMRPM 141, GPM 515, PSI ON BTM. 1850, OFF 1550, LOST DIFFERENTIAL, NO REACTIVE TORQUE
	10:00 - 15:30	5.50	DRLPRO	06	H	P		TRIP OUT FOR MUD MOTOR
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:00 - 20:30	4.50	DRLPRO	06	H	P		P/U NEW MOTOR, RERUN BIT, SCRIBE TOOLS & R.I.H
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DRILL F/ 6229 TO 6609 - 380 FT. 109 FT. PER/HR. MW 10.3, VIS 36, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM. 2000 OFF 1600
5/16/2010	0:00 - 13:30	13.50	DRLPRO	02	D	P		DRILL F/ 6609 TO 7812 - 1203 FT. 89 FT. PER/HR. MW 10.5, VIS 38, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM. 2200 OFF 1950
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010	
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD		
Event: DRILLING			Start Date: 4/8/2010		Rig Name No: ENSIGN 146/146, CAPSTAR 310/310
Active Datum: RKB @5,158.01ft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0		End Date: 5/19/2010

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DRILL F/ 7812 TO 8540 - 728 FT. 73 FT. PER/HR. MW 11.2, VIS 38, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM 2400, OFF 1950
5/17/2010	0:00 - 5:00	5.00	DRLPRO	02	D	P		DRILL F/ 8540 TO 8845 - 305 FT. 61 FT. PER/HR MW 11.6, VIS 39, WOB 20, RPM 40, MMRPM 131, GPM 467, PSI ON BTM. 2450 OFF 2000
	5:00 - 6:00	1.00	DRLPRO	05	C	P		CIRC. SWEEP AROUND
	6:00 - 13:00	7.00	DRLPRO	06	E	P		WIPER TRIP TO 6100 FT. - BACK REAMED 30 STDS.
	13:00 - 14:30	1.50	DRLPRO	05	C	P		CIRC. PUMPED SWEEP AROUND, 2 BTMS. UP, RAISE VIS TO 42
5/18/2010	14:30 - 0:00	9.50	DRLPRO	06	B	P		TRIP OUT FOR LOGS - BACK REAMED 40 STDS.
	0:00 - 0:30	0.50	DRLPRO	06	J	P		RETRIEVE WEAR BUSHING
	0:30 - 4:00	3.50	DRLPRO	11	D	P		HELD SAFETY MEETING W/ BAKER, RIG UP & RUN OPEN HOLE LOGS, BRIDGED OUT @ 5550 FT.
	4:00 - 13:30	9.50	DRLPRO	06	E	P		P/U BIT & BIT SUB, TRIP IN HOLE, HIT BRIDGES @ 5550, 6449, 8323 FT.
	13:30 - 14:30	1.00	DRLPRO	03	E	P		WASH & REAM TO BTM.
	14:30 - 16:00	1.50	DRLPRO	05	C	P		CIRC. 2 BTMS. UP
	16:00 - 16:30	0.50	DRLPRO	06	B	P		TRIP OUT FOR LOGS
	16:30 - 17:00	0.50	DRLPRO	08	A	Z		WORK ON IRON DERRICKHAND
5/19/2010	17:00 - 0:00	7.00	DRLPRO	06	B	P		TRIP OUT FOR LOGS, PUMP 25 STDS OUT
	0:00 - 1:30	1.50	DRLPRO	06	B	P		FINISH TRIPPING OUT FOR LOGS
	1:30 - 5:00	3.50	DRLPRO	11	D	P		RIG UP & RUN OPEN HOLE LOGS, BRIDGED OUT @ 6680 FT. TRYED TO WORK THROUGH FOR 30 MIN, PULLED OUT & RIGGED DOWN LOGGERS - DID NOT LOG OUT
	5:00 - 14:00	9.00	DRLPRO	12	C	P		RIG UP & RUN 212 JTS. 4 1/2 11.6# I-80 BTC CASING, HIT BRIDGE @ 6670 FT. WASHED THROUGH BRIDGE, CONTINUE RUNNING CASING, CASING SHOE @ 8835.13, FLOAT @ 8811, LANDED W/ 80K
	14:00 - 14:30	0.50	DRLPRO	05	D	P		CIRC. THROUGH CASING, RIG UP BJ SERVICES
	14:30 - 17:00	2.50	DRLPRO	12	E	P		HELD SAFETY MEETING W/ BJ SERVICES, RIGGED UP & PUMPED 40 BBLS SPACER, LEAD W/ 564 SKS 236 BBLS 11.9# 2.36 YIELD, TAIL W/ 568 SXS 132 BBLS, 14.3# 1.31 YIELD, DISPLACED W/ 137.2 BBLS, BUMPED PLUG, FLOATS HELD, NO CMT. TO SURFACE, FINAL LIFT PSI 1854
	17:00 - 19:00	2.00	DRLPRO	14	A	P		NIPPLE DOWN BOP, CLEAN MUD TANKS, RELEASE RIG @ 19:00 HRS. 5-19-2010

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010	
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD		Rig Name No: ENSIGN 146/146, CAPSTAR 310/310
Event: DRILLING			Start Date: 4/8/2010		End Date: 5/19/2010
Active Datum: RKB @5,158.01ft (above Mean Sea Leve			UWI: NV/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:00 - 19:00	0.00	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: 44 Cement sx used: 0</p> <p>SPUD DATE/TIME: 4/14/2010 5:00</p> <p>SURFACE HOLE: Surface From depth:44 Surface To depth: 2,030 Total SURFACE hours: 37.50 Surface Casing size:8 5/8 # of casing joints ran: 46 Casing set MD:2,048.0 # sx of cement:500 Cement blend (ppg:):15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 0 Describe cement issues: TOPPPED OUT W/ 175 SXS Describe hole issues:</p> <p>PRODUCTION: Rig Move/Skid start date/time: 5/13/2010 11:30 Rig Move/Skid finish date/time:5/13/2010 12:30 Total MOVE hours: 1.0 Prod Rig Spud date/time: 5/13/2010 21:30 Rig Release date/time: 5/19/2010 19:00 Total SPUD to RR hours:141.5 Planned depth MD 8,832 Planned depth TVD 8,465 Actual MD: 8,845 Actual TVD: 8,475 Open Wells \$: \$620,870 AFE \$: \$678,924 Open wells \$/ft:\$70.19</p> <p>PRODUCTION HOLE: Prod. From depth: 2,085 Prod. To depth:8,845 Total PROD hours: 66.5 Log Depth: 2ND ATTEMPT LOGS BRIDGED OUT @ 6680 FT. Production Casing size: 4 1/2 # of casing joints ran: 212 Casing set MD:8,835.4 # sx of cement:L 564 T 568 Cement blend (ppg:):L 11.9 T 14.3 Cement yield (ft3/sk): L 2.36 T 1.31 Est. TOC (Lead & Tail) or 2 Stage :8680 Describe cement issues: DID NOT GET CMT. TO SURFACE, FINAL LIFT PSI WAS 1854 Describe hole issues:</p> <p>DIRECTIONAL INFO: KOP: 150 Max angle: 34.20 Departure: 1597.35 Max dogleg MD: 4.30</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD	Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 7/9/2010	End Date: 7/24/2010
Active Datum: RKB @5,158.01ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/9/2010	13:00 - 14:00	1.00	COMP	33	C	P		R/U B & C QUICK TEST, PRESSURE TEST CSG AND FRAC VALVE TO 7000#, R/U CUTTER WIRELINE RIH W/ PERF GUNS, PERF THE MESAVERDE @ 8603' - 8606', 8559' - 8562', 8532' - 8534', 8374' - 8376', 4-SPF, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES
	14:00 - 15:00	1.00	COMP	37	B	P		
7/12/2010	7:00 - 7:15	0.25	COMP	48		P		HSM. FRAC STG #1 MESAVERDE 8374'-8606' [40 HOLES] STG #1] WHP=1000#, BEK DN PERFS=2758#, INJ RT=52.2, INJ PSI=4938#, ISIP=2378#, FG=.71, PUMP'D 1180 BBLS SLK WTR W/ 39557# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2458#, FG=.72, AR=52, AP=5054#, MR=54, MP=5897#, NPI=80#, 40/40 CALC PERFS OPEN. STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8094' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8061'-8064' 4 SPF, 90° PH, 12 HOLES. 8037'-8040' 4 SPF, 90° PH, 12 HOLES. 7948'-7950' 4 SPF, 90° PH, 8 HOLES. 7894'-7896' 4 SPF, 90° PH, 8 HOLES. [40 HOLES] STG #2] WHP=400#, BEK DN PERFS=2577#, INJ RT=50, INJ PSI=5819#, ISIP=1779#, FG=.66, PUMP'D 1137 BBLS SLK WTR W/ 43303# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2277#, FG=.72, AR=50.3, AP=5071#, MR=52, MP=5019#, NPI=498#, 31/40 CALC PERFS OPEN. HSM, WORKING W/ CHEMICALS
	7:15 - 18:00	10.75	COMP	36	E	P		
7/13/2010	7:00 - 7:15	0.25	COMP	48		P		STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP 7783', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7747';-7753' 4 SPF, 90° PH, 24 HOLES. 7660'-7664' 4 SPF, 90° PH, 16 HOLES [40 HOLES] STG #3] WHP=1360#, BEK DN PERFS=1496#, INJ RT=49, INJ PSI=4500#, ISIP=1516#, FG=.63, PUMP'D 825 BBLS SLK WTR W/ 29737# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1582#, FG=.64, AR=49, AP=4890#, MR=50, MP=6002#, NPI=66#, 29/40 CALC PERFS OPEN.
	7:15 - 7:15	0.00	COMP	36	E	P		
7/14/2010	7:00 - 7:15	0.25	COMP	48		P		SWIFN. HSM

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010	
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD		Rig Name No: SWABBCO 1/1	
Event: COMPLETION		Start Date: 7/9/2010		End Date: 7/24/2010	
Active Datum: RKB @5,158.01ft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	37	B	P		<p>STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 7620' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7586'-7590' 4 SPF, 90* PH, 16 HOLES. 7554'-7558' 4 SPF, 90* PH, 16 HOLES. 7502'-7504' 4 SPF, 90* PH, 8 HOLES [40 HOLES]</p> <p>STG #4] WHP=800#, BEK DN PERFS=1593#, INJ RT=49.7, INJ PSI=3608#, ISIP=1494#, FG=.63, PUMP'D 1100 BBLS SLK WTR W/ 43968# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1710#, FG=.66, AR=50, AP=4050#, MR=51.1, MP=5366#, NPI=216#, 29/40 CALC PERFS OPEN.</p> <p>STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 7367' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7332'-7337' 4 SPF, 90* PH, 20 HOLES. 7278'-7283' 4 SPF, 90* PH, 20 HOLES [40 HOLES]</p> <p>STG #5] WHP=260#, BEK DN PERFS=3192#, INJ RT=49.7, INJ PSI=2685#, ISIP=1239#, FG=.60, PUMP'D 1530 BBLS SLK WTR W/ 62024# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2211#, FG=.74, AR=49.4, AP=4051#, MR=50.4, MP=5045#, NPI=972#, 27/40 CALC PERFS OPEN.</p> <p>STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 6854' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 6819'-6824' 4 SPF, 90* PH, 20 HOLES. 6775'-6778' 4 SPF, 90* PH, 12 HOLES. 6592'-6594' 4 SPF, 90* PH, 8 HOLES [40 HOLES]</p> <p>STG #6] WHP=670#, BEK DN PERFS=1846#, INJ RT=51.9, INJ PSI=4275#, ISIP=1043#, FG=.59, PUMP'D 3135 BBLS SLK WTR W/ 129,597# 30/50 MESH W/ NO RESIN COAT IN TAIL, ISIP=2138#, FG=.75, AR=46.5, AP=3482#, MR=52.5, MP=6108#, NPI=1095#, 29/40 CALC PERFS OPEN.</p> <p>[NO RESIN STG #6]</p>
7/22/2010	7:00 - 7:15	0.25	COMP	48		P		P/U RIH W/ HALIBURTON 8K CBP. SET CBP @ 6542' FOR TOP KILL SWI. PREP TO DRILL OUT. JSA TALLEY PIPE
	7:15 - 10:00	2.75	COMP	30		P		MIRU ND WELLHEAD NU BOPS RU FLOOR & TUB EQUIP TALLEY & PU 90 JNTS LOST CLUTCH IN RIG SHUT DOWN TO MAKE REPAIRS & GET PARTS
7/23/2010	10:00 - 16:00	6.00	COMP	30		P		INSTALL NEW CLUTCH PARTS TALLEY & PU PIPE TAG KILL PLUG, INSTALL DRILLING HEAD PU PWR SWVL EST CIRC PRESS TEST TO 3000#
7/24/2010	7:00 - 7:15	0.25	COMP	48		P		SDFN DRILL PLUGS IN AM JSA= PRESS CONTROL

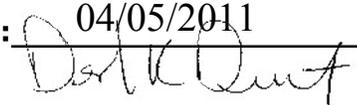
US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE	Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-6L PAD	Rig Name No: SWABBCO 1/1
Event: COMPLETION	Start Date: 7/9/2010	End Date: 7/24/2010
Active Datum: RKB @5,158.01ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 15:00	7.75	COMP	30		P		<p>0# ON WELL EOT @ 6450' EST CIRC</p> <p>PLUG #1] TAG SAND @ 6452' (90' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6542' IN 19 MIN W/ 0# INCREASE</p> <p>PLUG#2] CONTINUE TO RIH TAG SAND @ 6809' (45' SAND) C/O & DRILL THRU HALLI 8K CBP IN 7 MINW/ 100# INCREASE</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 7337' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7367' IN 11 MIN W/ 150# INCREASE</p> <p>PLUG#4] CONTINUE TO RIH TAG SAND @ 7580' (40' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7620' IN 13 MIN W/ 100# INCREASE</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 7733' (50' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7783' IN 10 MIN W/ 125# INCREASE</p> <p>PLUG #6] CONTINUE TO RIH TAG SAND @ 8064' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8094' IN 13 MIN W/ 0# INCREASE</p> <p>CONTINUE TO RIH TAG SAND @ 8650' (163' FILL) C/O TO 8813' CIRC CLEAN RD PWR SWVL LD 29 JNTS LAND TUBING ON HANGER W/ 250 JNTS EOT @ 7856.76 RD FLOOR & TUB EQUIP ND BOPS NU WELLHEAD DROP BALL PUMP 45 BBLS TMAC DIDNT SEE BIT PUMP OFF SHUT WELL IN 30 MIN TURN WELL OVER TO FBC @ 14:00 W/</p> <p>TOTAL PUMPED= 8914 BBLS RIG REC= 1700 BBLS LEFT TO REC= 7214 BBLS</p> <p>LANDING DETAIL= K.B.= 15.00 HANGER= 1.00 250 JNTS 2-3/8" L-80= 7838.56 POBS= 2.20 EOT= 7856.76</p>
7/25/2010	7:00 -			33	A			<p>RIG DOWN MOVE TO RED WELL MONDAY SDFW 7 AM FLBK REPORT: CP 2250#, TP 1550#, 20/64" CK, 47 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 2650 BBLS LEFT TO RECOVER: 6264</p>
	9:30 -		PROD	50				<p>WELL TURNED TO SALES @ 0930 HR ON 7/25/2010 - 1400 MCFD, 1128 BWPD, CP 2200#, FTP 1600#, CK 20/64"</p>
7/26/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2125#, TP 1450#, 20/64" CK, 34 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 3644 BBLS LEFT TO RECOVER: 5270</p>
7/27/2010	-							<p>WELL IP'D ON 7/27/10 -1596 MCFD, 0 BOPD, 672 BWPD, CP 2000#, FTP 1325#, CK 20/64", LP 104#, 24 HRS</p>
	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2000#, TP 1325#, 20/64" CK, 28 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4392 BBLS LEFT TO RECOVER: 4522</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS BLUE		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010				
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD		Rig Name No: SWABBCO 1/1				
Event: COMPLETION		Start Date: 7/9/2010		End Date: 7/24/2010				
Active Datum: RKB @5,158.01ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/28/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1900#, TP 1250#, 20/64" CK, 22 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5004 BBLS LEFT TO RECOVER: 3910

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6N4BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000	
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: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/4/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input 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 checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator requests approval to conduct wellhead repair/re-completion operations on the subject well location. The operator proposes to re-complete the Wasatch formation. The operator also requests authorization to commingle the newly Wasatch and existing Mesaverde formations. Please refer to the attached wellhead repair/re-completion procedures.</p>		
		Accepted by the Utah Division of Oil, Gas and Mining
		Date: 04/05/2011 By: 
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 4/4/2011	



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 43047504550000

Authorization: Board Cause No. 179-14.

Greater Natural Buttes Unit



BONANZA 1023-6N4BS

WELLHEAD CHANGEOUT & RE-COMPLETIONS PROCEDURE

DATE:1/18/2011

AFE#:

WO#: (For Wellhead Changeout)

USER ID:JVN975 (Frac Invoices Only)

COMPLETIONS ENGINEER: Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: Bonanza 1023-6N4BS
Location: NWSW Sec. 6 T10S R23E
Uintah County, UT
Date: 1/18/2011

ELEVATIONS: 5144' GL 5159' KB

TOTAL DEPTH: 8845' **PBTD:** 8813'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2056'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BT&C @ 8835'
 Marker Joint **6095-6116'**

TUBULAR PROPERTIES:

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

TOPS:

1101' Green River Top
 1367' Bird's Nest Top
 1728' Mahogany Top
 4479' Wasatch Top
 6577' Mesaverde Top

BOTTOMS:

6577' Wasatch Bottom
 8845' Mesaverde Bottom (TD)

T.O.C. @ 1750'

Relevant History:

- Jul 2010 – Initial Completion – 6 slickwater stages in MVD; C/O to PBTD @ 8813'. Land tubing @ 7837'
- Oct 2010 – Slickline ran. Max TD @ 7851'. Could not get any deeper. Hit solid right above SN.
- Nov 2010 – Slickline ran. Max TD @ 7882'. Bailer stacked out and could not get any deeper..
- Dec 2010 – Workover to replace scaled jts. LD 8 jts tbg. EOT 7855.
- Jan 2011 – Slickline ran. Stacked out @8705 (100' above bottom). Dropped Spring.

Perfs:

Legal Well Name	Date	MD Top (ft)	MD Base (ft)	SPF	Stage
BONANZA 1023-6N4BS	7/12/2010	6,592.00	6,594.00	4	6
BONANZA 1023-6N4BS	7/12/2010	6,775.00	6,778.00	4	6
BONANZA 1023-6N4BS	7/12/2010	6,819.00	6,824.00	4	6
BONANZA 1023-6N4BS	7/12/2010	7,278.00	7,283.00	4	5
BONANZA 1023-6N4BS	7/12/2010	7,332.00	7,337.00	4	5
BONANZA 1023-6N4BS	7/12/2010	7,502.00	7,504.00	4	4
BONANZA 1023-6N4BS	7/12/2010	7,554.00	7,558.00	4	4
BONANZA 1023-6N4BS	7/12/2010	7,586.00	7,590.00	4	4
BONANZA 1023-6N4BS	7/12/2010	7,660.00	7,664.00	4	3
BONANZA 1023-6N4BS	7/12/2010	7,747.00	7,753.00	4	3
EOT @ 7855					
BONANZA 1023-6N4BS	7/12/2010	7,894.00	7,896.00	4	2
BONANZA 1023-6N4BS	7/12/2010	7,948.00	7,950.00	4	2
BONANZA 1023-6N4BS	7/12/2010	8,037.00	8,040.00	4	2
BONANZA 1023-6N4BS	7/12/2010	8,061.00	8,064.00	4	2
BONANZA 1023-6N4BS	7/12/2010	8,374.00	8,376.00	4	1
BONANZA 1023-6N4BS	7/12/2010	8,532.00	8,534.00	4	1
BONANZA 1023-6N4BS	7/12/2010	8,559.00	8,562.00	4	1
BONANZA 1023-6N4BS	7/12/2010	8,603.00	8,606.00	4	1
PBTD @ 8813					

H2S History: NO History

Bonanza 1023-6N4BS- 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.
5. Rig up wireline service. RIH and set CBP @ ~6562'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service.
6. Remove BOP and ND WH.
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 1 joint of 3 ½" IF drill pipe with 4 ½" right hand standard grapple overshot. 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 +/- 7,000 ft-lbs count number of turns to make-up, and document in the daily report. Release overshot, POOH, and lay down.
4. (Following an overshot run, the casing will have to be cut below the place where the overshot was engaged on the outside of the 4-1/2" casing and that piece of casing retrieved. The overshot will scar the outside of the casing, making the casing patch integrity questionable.)
4. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" P-110 casing.
5. Latch fish, PU to 100,000# tension. (Do not exceed a tensile pull of 100,000 lbs during pressure test.) RU B&C. Cycle pressure test to 6200 #.
6. Install C-22 slips. Land casing w/ 80,000# tension.
7. Cut-off and dress 4 ½" casing stub.
8. NUWH. PU 3 7/8" bit and RIH. Clean out to ~6512'.
9. POOH
10. NU Frac Valves, Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. Test 4-1/2 x 8-5/8" annulus to 200 psi for 15 minutes and check for communication to the production casing. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 8-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
11. RDMO. Turn well over to completions.

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 ½" overshot. RIH, latch fish. Pick string weight to neutral.
4. (Following an overshot run, the casing will have to be cut below the place where the overshot was engaged on the outside of the 4-1/2" casing and that piece of

casing retrieved. The overshoot will scar the outside of the casing, making the casing patch integrity questionable.)

5. MIRU wireline services. RIH and shoot string shot at casing collar @ **62.5'** (**1st casing collar below mandrel**).
6. MIRU casing crew.
7. Back-off casing, POOH.
8. PU new casing joint w/ 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.
9. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 6200 #
10. Install C-22 slips. Land casing w/ 80,000# tension.
11. Cut-off and dress 4 ½" casing stub.
12. NUWH. PU 3 7/8" bit and RIH. Clean out to ~**6512'**.
13. POOH
14. NU Frac Valves, Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. Test 4-1/2 x 8-5/8" annulus to 200 psi for 15 minutes and check for communication to the production casing. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 8-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
15. RDMO. Turn well over to completions.

Frac Procedure-GENERAL:

- A minimum of **9** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers RPM Cased-hole log dated 6/3/2010
- **4** fracturing stages required for coverage.
- Procedure calls for **5** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Service companies need to provide surface/production annulus pop-offs to be set for 500 psi for each frac.
- Pump 20/40mesh **curable resin coated sand** last 5,000# of all frac stages
- **TIGHT SPACING ON STAGE 2; OVERFLUSH BY 5 BBLS**
- Tubing Currently Landed @~7855
- Originally completed on 7/12/10

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

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

Zone	From	To	spf	# of shots
WASATCH	6260	6261	3	3
WASATCH	6276	6277	3	3
WASATCH	6305	6306	3	3
WASATCH	6421	6422	3	3
WASATCH	6439	6440	3	3
WASATCH	6474	6475	3	3
WASATCH	6493	6494	3	3
3. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6260' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
4. Set 8000 psi CBP at ~6,112'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5884	5885	4	4
WASATCH	5889	5890	4	4
WASATCH	5986	5988	4	8
WASATCH	6010	6012	4	8

5. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5884' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

6. Set 8000 psi CBP at ~5,870'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5680	5681	4	4
WASATCH	5745	5746	4	4
WASATCH	5805	5806	4	4
WASATCH	5812	5813	4	4
WASATCH	5838	5840	4	8

7. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5680' trickle 250gal 15%HCL w/ scale inhibitor in flush.

8. Set 8000 psi CBP at ~5,608'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5319	5322	3	9
WASATCH	5441	5443	3	6
WASATCH	5506	5508	3	6

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~5319' and flush only with recycled water.

10. Set 8000 psi CBP at ~5,269'.

11. ND Frac Valves, NU and Test BOPs.

12. TIH with 3 7/8" bit, pump off sub, SN and tubing.

13. Drill plugs and clean out to PBTD. Shear off bit and land tubing at $\pm 7855'$ unless indicated otherwise by the well's behavior. The well will be commingled at this time.

14. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

15. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call
Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

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

NOTES:

TIGHT SPACING ON STAGE 2; OVERFLUSH BY 5 BBLs

If using any chemicals for pickling tubing or H₂S Scavenging, have MSDS for all chemicals prior to starting work

Acid Pickling and H₂S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLs 2% KCL MIXED W/ 10-15 GAL H₂S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLs 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H₂S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H₂S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H₂S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H₂S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H₂S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H₂S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLs MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H₂S.
4. FLUSH TUBING AND CASING PUSHING H₂S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H₂S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Michael Sollee: 832-859-0515, 720-929-6057

Production Engineer

Kyle Bohannon: 804-512-1985, 435-781-7068

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Name Bonanza 1023-6N4BS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	6260	6261	3	3	6258	to	6267.5
	WASATCH	6276	6277	3	3	6273.5	to	6282.5
	WASATCH	6305	6306	3	3	6303	to	6307.5
	WASATCH	6421	6422	3	3	6308.5	to	6313
	WASATCH	6439	6440	3	3	6415	to	6423
	WASATCH	6474	6475	3	3	6433	to	6443
	WASATCH	6493	6494	3	3	6472	to	6484.5
	# of Perfs/stage				Look			
					21	CBP DEPTH	6,112	
2	WASATCH	5884	5885	4	4	5880	to	5897
	WASATCH	5889	5890	4	4	5880	to	5897
	WASATCH	5986	5988	4	8	5981	to	5989
	WASATCH	6010	6012	4	8	5995	to	6024
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look			
					24	CBP DEPTH	5,870	
3	WASATCH	5680	5681	4	4	5661.5	to	5686
	WASATCH	5745	5746	4	4	5732.5	to	5748
	WASATCH	5805	5806	4	4	5798	to	5848.5
	WASATCH	5812	5813	4	4	5798	to	5848.5
	WASATCH	5838	5840	4	8	5798	to	5848.5
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look			
					24	CBP DEPTH	5,608	
4	WASATCH	5319	5322	3	9	5286.5	to	5339.5
	WASATCH	5441	5443	3	6	5428	to	5455
	WASATCH	5506	5508	3	6	5494	to	5513.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				21	CBP DEPTH	5,269	
	Totals				90			

Fracturing Schedules

Name Bonanza 1023-614E

Copy to new book

Recomplete?	Y
Pad?	Y
ACTS?	N

Swabbing Days	0	Enter Number of swabbing days here for re-completes
Production Log	0	Enter 1 if running a Production Log
DFTI	0	Enter Number of DFTIs

Stage	Zone	Perfs		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
		Top, ft	Bot, ft																		
1	WASATCH	6260	6261	3	3	Varied	Pump-in test			Slickwater		0	0	0							39
	WASATCH	6276	6277	3	3	0	ISIP and 5 min ISIP			Slickwater	11,120	11,120	265	265	25.0%	0.0%	0	0			33
	WASATCH	6305	6306	3	3	50	Slickwater Pad			Slickwater	22,240	33,359	530	794	50.0%	45.5%	13,900	13,900			67
	WASATCH	6421	6422	3	3	50	Slickwater Ramp	0.25	1	Slickwater	11,120	44,479	265	1,059	25.0%	54.5%	16,680	30,579			0
	WASATCH	6439	6440	3	3	50	Slickwater Ramp	1	2	Slickwater	4,087	48,566	97	1,156							0
	WASATCH	6474	6475	3	3	50	Flush (4-12)			Slickwater											0
	WASATCH	6493	6494	3	3	50	ISDP and 5 min ISDP			Slickwater											0
	WASATCH										48,566	97	1,156					30,579			0
	WASATCH																				39
	WASATCH																				179
	WASATCH										44,479										
		# of Perfs/Stage		Look	21	23.1	<< Above pump time (min)								Flush depth	6260	gal/md-ft CBP depth	38,000	26,125	lbs sand/md-ft	148
2	WASATCH	5884	5885	4	4	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	5889	5890	4	4	0	ISIP and 5 min ISIP			Slickwater	5,353	5,353	127	127	25.0%	0.0%	0	0			16
	WASATCH	5906	5908	4	8	50	Slickwater Pad			Slickwater	10,705	16,058	255	382	50.0%	45.5%	6,691	6,691			32
	WASATCH	6010	6012	4	8	50	Slickwater Ramp	0.25	1	Slickwater	5,353	21,410	127	510	25.0%	54.5%	8,029	14,719			0
	WASATCH					50	Flush (4-12)			Slickwater	3,841	25,251	91	601							0
	WASATCH					50	ISDP and 5 min ISDP			Slickwater											0
	WASATCH																				0
	WASATCH										25,251	91	601					14,719			0
	WASATCH																				38
	WASATCH																				86
	WASATCH										21,410										
		# of Perfs/Stage		Look	24										Flush depth	5884	gal/md-ft CBP depth	50,000	34,375	lbs sand/md-ft	14
3	WASATCH	5680	5681	4	4	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	5745	5746	4	4	0	ISIP and 5 min ISIP			Slickwater	7,504	7,504	179	179	25.0%	0.0%	0	0			23
	WASATCH	5805	5806	4	4	50	Slickwater Pad			Slickwater	15,006	22,512	357	536	50.0%	45.5%	9,380	9,380			45
	WASATCH	5812	5813	4	4	50	Slickwater Ramp	0.25	1	Slickwater	7,504	30,016	179	715	25.0%	54.5%	11,250	20,636			0
	WASATCH	5838	5840	4	8	50	Flush (4-12)			Slickwater	3,708	33,724	88	803							0
	WASATCH					50	ISDP and 5 min ISDP			Slickwater											0
	WASATCH																				0
	WASATCH										33,724	88	803					20,636			0
	WASATCH																				36
	WASATCH																				103
	WASATCH										30,016										
		# of Perfs/Stage		Look	24										Flush depth	5680	gal/md-ft CBP depth	38,000	26,125	lbs sand/md-ft	72
4	WASATCH	5319	5322	3	9	Varied	Pump-in test			Slickwater		0	0	0							
	WASATCH	5441	5443	3	6	0	ISIP and 5 min ISIP			Slickwater	6,774	6,774	161	161	15.0%	0.0%	0	0			20
	WASATCH	5506	5508	3	6	50	Slickwater Pad			Slickwater	22,582	29,356	538	699	50.0%	37.3%	14,113	14,113			68
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	15,807	45,163	376	1,075	35.0%	62.7%	23,711	37,824			0
	WASATCH					50	Flush (4-12)			Slickwater	3,472	48,635	83	1,158							0
	WASATCH					50	ISDP and 5 min ISDP			Slickwater											0
	WASATCH																				0
	WASATCH										48,635	83	1,158					37,824			0
	WASATCH																				0
	WASATCH																				88
	WASATCH										45,163										
		# of Perfs/Stage		Look	21										Flush depth	5319	gal/md-ft CBP depth	19,000	15,913	lbs sand/md-ft	50
Totals					90	23.2	<< Above pump time (min)				Total Fluid	156,176	gals	3,718	bbls	Total Sand	103,759				
						1.2						3,718	bbls		8.3	tanks				Total Scale Inhib. =	456

Total Stages	4	stages
Last Stage Flush	3472	gals
Friction Reducer	76	gals @ 0.5 GPT
Surfactant	153	gals @ 1.0 GPT
Clay Stabilizer	153	gals @ 1.0 GPT
15% Hcl	1000	gals @ 250 gal/stg
Iron Control for acid	5	gals @ 5.0 GPT of aci
Surfactant for acid	1	gals @ 1.0 GPT of aci
Corrosion Inhibitor for acid	2	gals @ 2.0 GPT of aci

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable
 Scale Inhibitor 456 gals pumped per schedule above
 Biocide 76 gals @ 0.5 GPT

	MD	TVD	INC		MD	TVD	INC
	0.00	0.00	0.00		4588.00	4222.57	5.88
	140.00	140.00	0.50		4678.00	4312.12	5.63
	236.00	235.99	1.44		4769.00	4402.76	4.50
	332.00	331.92	2.88		4860.00	4493.57	2.94
	427.00	426.70	4.75		4950.00	4583.51	1.19
	523.00	522.21	6.81		5041.00	4674.48	1.69
	618.00	616.32	8.81		5132.00	4765.47	0.06
	713.00	709.86	11.25		5223.00	4856.47	0.06
	809.00	803.59	13.69		5313.00	4946.47	0.06
	905.00	896.42	15.81		5404.00	5037.47	0.30
	1000.00	987.37	17.75		5495.00	5128.46	0.81
	1096.00	1078.22	19.94		5585.00	5218.46	0.69
	1191.00	1166.50	23.38		5676.00	5309.44	1.50
	1287.00	1253.94	25.38		5767.00	5400.39	2.31
	1383.00	1339.75	27.88		5857.00	5490.33	1.88
	1479.00	1423.47	30.69		5948.00	5581.29	1.44
	1574.00	1505.06	30.94		6039.00	5672.26	1.31
	1670.00	1586.85	32.19		6129.00	5762.24	1.56
	1765.00	1666.83	33.13		6221.00	5854.17	2.81
	1860.00	1746.13	33.69		6311.00	5944.08	2.44
	1955.00	1824.95	34.19		6402.00	6035.01	2.06
	2031.00	1887.98	33.75		6493.00	6125.96	1.75
	2141.00	1979.20	34.20		6583.00	6215.92	1.63
	2231.00	2053.41	34.72		6674.00	6306.89	0.88
	2322.00	2129.12	32.67		6764.00	6396.89	0.56
	2413.00	2206.12	31.75		6855.00	6487.88	0.44
	2503.00	2283.08	30.69		6946.00	6578.88	0.31
	2594.00	2362.03	28.94		7036.00	6668.88	0.50
	2685.00	2442.24	27.44		7127.00	6759.87	1.31
	2775.00	2522.36	26.75		7218.00	6850.84	1.38
	2866.00	2603.42	27.31		7308.00	6940.82	1.75
	2957.00	2683.72	28.81		7399.00	7031.77	1.75
	3047.00	2762.17	29.88		7490.00	7122.73	1.63
	3138.00	2840.75	30.72		7580.00	7212.72	0.19
	3229.00	2919.32	29.88		7671.00	7303.72	0.13
	3320.00	2999.46	26.63		7762.00	7394.72	0.31
	3410.00	3080.18	25.88		7853.00	7485.72	0.69
	3501.00	3162.73	23.88		7943.00	7575.71	0.69
	3591.00	3245.85	21.19		8034.00	7666.70	1.00
	3682.00	3331.39	18.69		8125.00	7757.68	1.25
	3772.00	3417.53	14.94		8216.00	7848.65	1.75
	3863.00	3505.80	13.19		8306.00	7938.60	2.13
	3953.00	3593.86	10.56		8397.00	8029.54	1.94
	4044.00	3683.61	8.44		8488.00	8120.49	2.01
	4135.00	3773.63	8.38		8578.00	8210.43	2.19
	4225.00	3862.66	8.44		8669.00	8301.36	2.25
	4316.00	3952.69	8.38		8759.00	8391.27	2.81
	4407.00	4042.81	7.50		8795.00	8427.23	2.75
	4497.00	4132.12	6.69		8845.00	8477.17	2.75

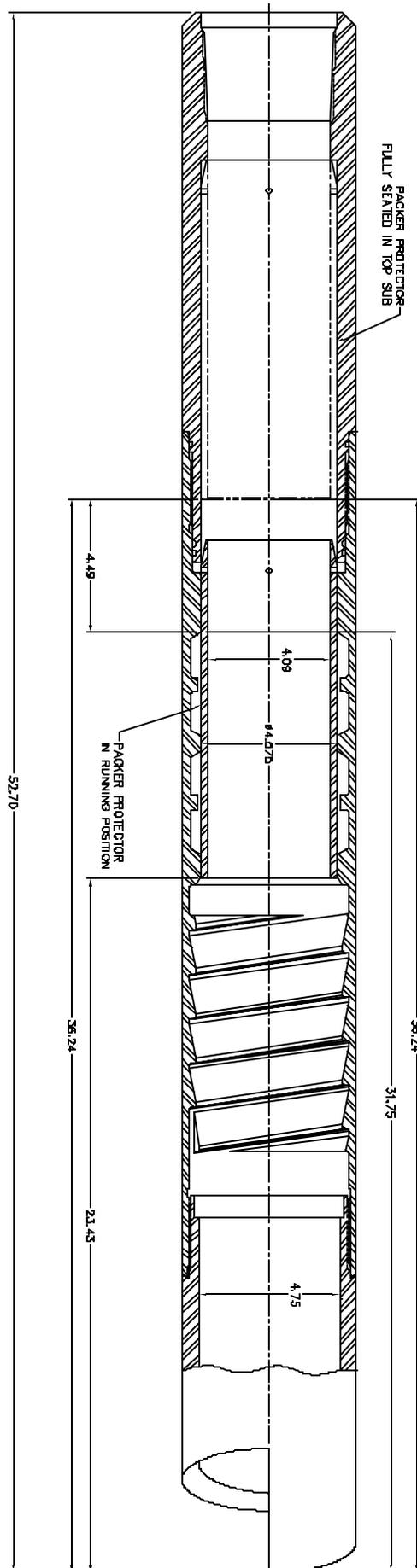


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

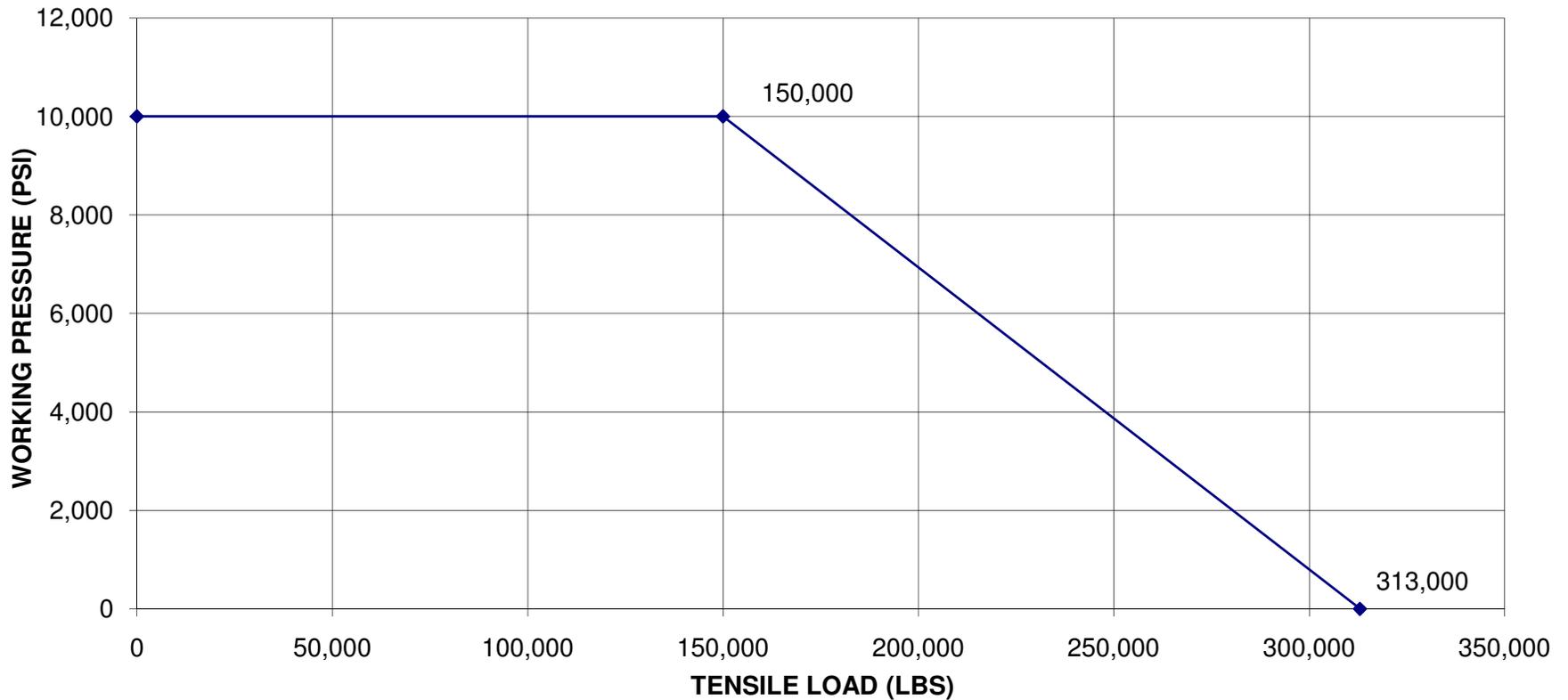
1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector 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. 04, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6N4BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000	
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: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/6/2011 <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 7/6/2011	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010				
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD		Rig Name No: SWABBCO 6/6				
Event: WELL WORK EXPENSE		Start Date: 6/16/2011		End Date: 6/20/2011				
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/17/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= SCANNING TUBING
	7:15 - 17:00	9.75	WO/REP	30		P		150# FWP ON WELL CONTROL WELL W/ TMAC UNLAND TUBING RU SCAN TECH POOH W/ 250 JNTS LD 122 RB REJECTED JNTS, LD 129 GOOD YB JNTS, RU W/L RIH W/ GAUGE RING TO 6600' POOH PU 10K CBP RIH SET @ 6560' DUMP BAIL 4 SKS CEM IN 2 RUNS FILL HOLE W/ TMAC PRESS TEST TO 500# SPOT IN FISHING TRLR RU PWR SWVL SIW SDFW
6/20/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= W/L SAFETY
	7:15 - 17:00	9.75	WO/REP	30		P		0 PSI ON WELL ND BOPS & WELLHEAD PU INT CUTTER CUT CSG BELOW HNGR POOH RD PWR SWVL PU OVERSHOT RIH CATCH CSG APPLY LH TORQUE RU W/L SET OFF STRING SHOT @ PUP B/O PUP POOH PU 10' PUP RIH APPLY 46 ROUNDS TO CSG STRING TORQUE TO 7000# PULL 90000# ON CSG RU TESTERS TEST TO 3500# SET SLIPS NU W/H RD RIG

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 7/6/2011	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010				
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD		Rig Name No: SWABBCO 6/6				
Event: WELL WORK EXPENSE		Start Date: 6/16/2011		End Date: 6/20/2011				
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0						
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<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/15/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
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<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE OPERATOR HAS PERFORMED A RECOMPLETION ON THE SUBJECT WELL. THE OPERATOR HAS RECOMPLETED THE WASATCH FORMATION. THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH FORMATION WITH THE EXISTING MESAVERDE FORMATION. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 07/15/2011 AT 12:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
NAME (PLEASE PRINT) Sheila Wopsock		PHONE NUMBER 435 781-7024
SIGNATURE N/A		TITLE Regulatory Analyst DATE 7/19/2011

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU38419

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

2. Name of Operator **KERR MCGEE OIL & GAS ONSHORE** Contact: **GINA T. BECKER**
 Mail: **gina.becker@anadarko.com**

3. Address **POBOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)
Ph: 720-929-6086

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **NWSW 1531FSL 736FWL 39.974890 N Lat, 109.375510 W Lon**
 At top prod interval reported below **SESW 644FSL 2021FWL**
 At total depth **SESW 617FSL 2045FWL**

6. If Indian, Allottee or Tribe Name
 7. Unit or CA Agreement Name and No.
 8. Lease Name and Well No.
BONANZA 1023-6N4BS

9. API Well No.
43-047-50455

10. Field and Pool, or Exploratory
NATURAL BUTTES

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

12. County or Parish
UINTAH 13. State
UT

14. Date Spudded
04/06/2010 15. Date T.D. Reached
05/17/2010 16. Date Completed
 D & A Ready to Prod.
07/15/2011

17. Elevations (DF, KB, RT, GL)*
5144 GL

18. Total Depth: MD **8845** TVD **8477** 19. Plug Back T.D.: MD **8812** TVD **8394** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL/CBL-RPM

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
11.000	8.625 IJ-55	28.0		2055		500		0	
7.875	4.500 I-80	11.6		8835		1132		1750	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7830							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5319	6494	5319 TO 6494	0.360	90	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5319 TO 6494	PUMP 3,951 BBLs SLICK H2O 104,313 LBS SAND

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SEP 07 2011
 DIV. OF OIL, GAS & MINING

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/15/2011	07/30/2011	24	→	0.0	998.0	160.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 250	400.0	→	0	998	160		PGW	

28a. Production - Interval B

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1101 1367 1728 4479 6577	6577 8845			

32. Additional remarks (include plugging procedure):

Attached is the chronological recompletion history and perforation report.

33. Circle enclosed attachments:

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

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

**Electronic Submission #116165 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

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

Signature (Electronic Submission) Date 08/25/2011

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

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6N4BS YELLOW	Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-6L PAD	Rig Name No: MILES 2/2
Event: RECOMPL/RESEREVEADD	Start Date: 6/22/2011	End Date: 7/12/2011
Active Datum: RKB @5,158.00ft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/NW/0/736.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/30/2011	7:00 - 18:00	11.00	COMP	33	C	P		LOCK OPEN SURFACE CSG VALVE. FILL SURFACE. PSI TEST CSG & FRAC VALVES. PSI TEST T/ 1000 PSI. HOLD FOR 15 MIN. LOST 6 PSI. PSI TEST T/ 3500 PSI. HOLD FOR 15 MN. LOST 24 PSI. 1ST PSI TEST T/ 6200 PSI. HOLD FOR 30 MIN. LOST 45 PSI. BLEED OFF PSI. SWI. MOVE T/ NEXT WELL.
7/1/2011	7:00 - 18:00	11.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER STG 1 PERF DESIGN. POOH. SWI. MIRU FRAC CREW. FRAC STG 1)WHP 173 PSI, BRK 217 PSI @ 4.5 BPM. ISIP 770 PSI, FG.56 PUMP @ 40.9 BPM @ 5468 PSI = 61% HOLES OPEN. ISIP 2193 PSI, FG .78, NPI 1423 PSI. MP 6013 PSI, MR 43.4 BPM, AP 5394 PSI, AR 37.0 BPM, PMP 1246 BBLS SW & 27,751 LBS OF 30/50 SND & 2916 LBS OF 20/40 RESIN SND. TOTAL PROP LBS
7/2/2011	7:00 - 18:00	11.00	COMP	36	B			PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6112' P/U PERF AS PER PERF DESIGN. POOH X-OVER TO FRAC CREW. FRAC STG 2)WHP 229 PSI, BRK 3766 PSI @ 4,7 BPM. ISIP 2462 PSI, FG .85. PUMP 100 BBLS @ 52.1 BPM @ 5243 PSI = 91% HOLES OPEN. ISIP 1582 PSI, FG .70, NPI -880 PSI. MP 5273 PSI, MR 52.7 BPM, AP 4189 PSI, AR 51.5 BPM, PMP 636 BBLS SW & 11,988 LBS OF 30/50 SND & 2797 LBS OF 20/40 RESIN SND. TOTAL PROP 14,785 LBS. SWI, X-OVER FOR WL.
7/5/2011	7:00 - 7:15	0.25	COMP	48		P		PERF STG 3) PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RH SET CBP @ 6112' P/U PERF AS PER STG 3 PERF DESIGN. HSM.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW	Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-6L PAD	Rig Name No: MILES 2/2
Event: RECOMPL/RESEREVEADD	Start Date: 6/22/2011	End Date: 7/12/2011
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		<p>FRAC STG #3] WHP=251#, BRK DN PERFS=3,139#, @=4.7 BPM, INJ RT=44, INJ PSI=5,579#, ISIP=1,589#, FG=.71, PUMP'D 829 BBLs SLK WTR W/ 17,991 # 30/50 MESH W/ 2,687# RESIN COAT IN TAIL W/ 20,678# TOTAL PROP PUMP'D, ISIP=1,475#, FG=.69, AR=46.7, AP=5,136#, MR=50.7, MP=5,669#, NPI=-114#, 14/24 CALC PERFS OPEN 60%. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,870', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #4] WHP=582#, BRK DN PERFS=2,044#, @=4.8 BPM, INJ RT=51, INJ PSI=5,023#, ISIP=933#, FG=.61, PUMP'D 1,240 BBLs SLK WTR W/ 36,361# 30/50 MESH W/ 1,822# RESIN COAT IN TAIL W/ 38,183# TOTAL PROP PUMP'D, ISIP=1,076#, FG=.64, AR=50.1, AP=4,820#, MR=52.2, MP=5,427#, NPI=143#, 16/21 CALC PERFS OPEN 75%. X OVER TO WIRE LINE</p> <p>P/U RIH W/ HALIBURTON 8K CBP SET FOR TOP KILL @=5,269'</p> <p>3,951 TOTAL BBLs 104,313# TOTAL SAND 457 GALS SCALE INHIB 77 GALS BIO</p>
7/11/2011	10:30 - 17:30	7.00	COMP	44		P		<p>MIRU, NDWH, NU BOP'S, TEST, PU SLIDING SLEEVE ASSY, TIH TBG TO 5169' PLUG# 1, PU PWR SWIVEL, BREAK CIRC, MILL PLUGS. PLUG# 1 5269' 0 SAND 5 MIN 0# KICK PLUG# 2 5608' 45' SAND 15 MIN 0# KICK PLUG# 3 5870' 30' SAND 10 MIN 0# KICK PLUG# 4 6112'</p> <p>PBTD 6512' BTM PERF 6494' TBG 193 JTS 6106.10' HANGER .83' SLIDING SLEEVE 2.10' KB 15.00' EOT 6124.03' WTR PUMPED 3951 BBLs WTR LTR</p>
7/12/2011	7:00 - 7:30	0.50	COMP	48		P		MILLING PLUGS
	7:30 - 7:30	0.00	COMP	44		P		<p>MILL PLUG # 4, RU WEATHERFORD FOAM UNIT, BREAK CIRC, CLEAN OUT TO 6512', BREAK CIRC, CIRC 30 MIN, POOH 13 JTS, TO 6124.03', NU HANGER, LAND TBG, ND BOP'S, NU WH, RU DELSCO, TIH PULL SLEEVE, SET PLUG, ND DELSCO, RU WEATHERFORD FOAM UNIT, REVERSE CIRC.</p>
7/13/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 550#, TP 50#, OPEN/64" CK, 8 BWPH, TRACE SAND, - GAS TTL BBLs RECOVERED: 654 BBLs LEFT TO RECOVER: 3297</p>
7/14/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 550#, TP 400#, -/64" CK, 0 BWPH, - SAND, - GAS TTL BBLs RECOVERED: 718 BBLs LEFT TO RECOVER: 3233</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW	Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-6L PAD	Rig Name No: MILES 2/2
Event: RECOMPL/RESEREVEADD	Start Date: 6/22/2011	End Date: 7/12/2011
Active Datum: RKB @5,158.00ft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/15/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 400#, TP 50#, OPEN/64" CK, 11 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 940 BBLS LEFT TO RECOVER: 3011
	12:00 - 12:00	0.00	PROD	50				WELL TURNED TO SALES @ 1200 HR ON 7/15/11 - 480 MCFD, 1200 BWPD, CP 450#, FTP 70#, CK 20/64"
7/16/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 400#, TP 200#, 20/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 1068 BBLS LEFT TO RECOVER: 2883
7/17/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 400#, TP 250#, 20/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 1188 BBLS LEFT TO RECOVER: 2763
7/18/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 400#, TP 250#, 20/64" CK, 5 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 1308 BBLS LEFT TO RECOVER: 2643
7/26/2011	7:00 - 7:30	0.50	COMP	48		P		JSA, SAFTY MEETING
	7:30 - 10:30	3.00	MIRU	31				MIRU, ND WH, NU BOP'S, RIG UP FLOOR AND TBG EQUIP
	10:30 - 16:30	6.00	COMP	31	I			POOH W/ 194 JTS 2-3/8 L-80 TBG, LD SLIDING SLEEVE, PU POBS & USED BIT, TIH TAG CEMENT TOP @ 6550', RU PWR SWVL, READY TO DRILL PLUG IN THE A.M.
7/27/2011	7:00 - 7:30	0.50		48		P		JSA
	7:30 - 12:00	4.50		44		P		MIRU TECH FOAM, ESTB CIRC, D/O CEMENT & CBP,300# KICK, RD PWR SWVL, TIH TAG FILL @8710', RU PWR SWVL, ESTB CIRC, C/O 10' TO 8720 COULD NOT GET ANY MORE, CIRC CLEAN, POOH LD 28 JTS ON FLOAT, LAND TBG @ 7830.14', ND BOP'S, NU WH, PUMP OFF BIT, RD.
								JTS 247 JTS L-80 7812.04' KB 15.00' POBS 2.10' EOT 7830.14' PBTB 8813' BTM PERF 8606'
7/30/2011	7:00 -			50				WELL IP'D ON 7/30/11- 998 MCFD, 0 BOPD, 160 BWPD, CP 400#, FTP 250#, CK 20/64", LP 61#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION		
Representative			
Address			

1.2 Well Information

Well	BONANZA 1023-6N4BS YELLOW		
Common Name	BONANZA 1023-6N4BS		
Well Name	BONANZA 1023-6N4BS	Wellbore No.	OH
Report No.	1	Report Date	6/22/2011
Project	UTAH-UINTAH	Site	BONANZA 1023-6L PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	6/22/2011	End Date	7/12/2011
Spud Date	4/14/2010	Active Datum	RKB @5,158.00ft (above Mean Sea Level)
UWI	NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0		

1.3 General

Contractor	CASEDHOLE SOLTUIONS	Job Method	PERFORATE	Supervisor	BRAD BURMAN
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,319.0 (ft)-6,494.0 (ft)	Start Date/Time	6/28/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	19	End Date/Time	6/28/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	90	Net Perforation Interval	26.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.46 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

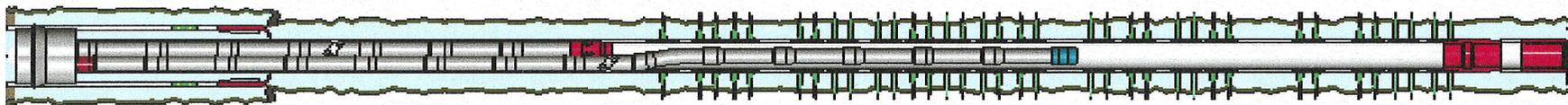
Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,319.0	5,322.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	
														N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,441.0	5,443.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,506.0	5,508.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,680.0	5,681.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,745.0	5,746.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,805.0	5,806.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,812.0	5,813.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,838.0	5,840.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,884.0	5,885.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,889.0	5,890.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			5,986.0	5,988.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,010.0	6,012.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,260.0	6,261.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,276.0	6,277.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,305.0	6,306.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,421.0	6,422.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,439.0	6,440.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,474.0	6,475.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,493.0	6,494.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



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

FORM 6

ENTITY ACTION FORM

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

Well 1

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

Well 2

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

Well 3

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

ACTION CODES:

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

RECEIVED

MAY 21 2012

Cara Mahler

Name (Please Print)

Signature

REGULATORY ANALYST

5/21/2012

Title

Date

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

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

* not moved in unit

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

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

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

★ not moved into unit

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

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750452	BONANZA 1023-6M1BS		NWSW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17578	4/6/2010			4/28/10	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 4/6/2010 AT 10:30 HRS. <i>BHL=SWSW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750455	BONANZA 1023-6N4BS		NWSW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17579	4/6/2010			4/28/10	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 4/6/2010 AT 14:30 HRS. <i>BHL=SESW</i>							

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)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

4/7/2010

Date

RECEIVED

APR 07 2010

(5/2000)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: PONDEROSA
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6N4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047504550000
PHONE NUMBER: 720 929-6511		9. FIELD and POOL or WILDCAT: MATHEW 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/23/2013	<input type="checkbox"/> APD EXTENSION OTHER: PRODUCTION ENHANCEMENT	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DRILLING REPORT Report Date:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center;"> THE OPERATOR CONDUCTED THE FOLLOWING WORKOVER/WELLBORE CLEANOUT ON THE SUBJECT WELL ON 09/23/2013. PLEASE SEE THE ATTACHED CHRONOLOGICAL WELL HISTORY FOR DETAILS. THANK YOU. </p> <div style="text-align: right; margin-top: 20px;"> <p> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 23, 2014 </p> </div>		
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/23/2014	

**US ROCKIES REGION
Operation Summary Report**

Well: BONANZA 1023-6N4BS YELLOW		Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH		Site: BONANZA 1023-6L PAD	Rig Name No:
Event: WELL WORK EXPENSE		Start Date: 9/23/2013	End Date: 9/23/2013
Active Datum: RKB @5,158.00usft (above Mean Sea Level)		UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/23/2013	7:00 - 10:00	3.00	MAINT	42				DELSCO TOM. FLUID LEVEL 7100, MADE 6 SWAB RUNS AND GOT BACK 7 BBLS. 70028718629ARRIVED TO LOCATION BLEW TBG DOWN 715153007000170033557200TUBING BLEW DEAD AFTER RUN 74027000710010034117030 8003710071005034117030 845471007100034007030STACKING OUT AT 7100 CONTACTED KERR-MCGEE PERSONEL SHUT WELL 915571007100034007070IN FOR THIRTY MINUTS 945671007100034007100TUBING WAS DRY CONTACTED KERR-MCGEE PERSONEL 1000MOVED TO NBU 92236G-1T
9/24/2013	7:00 - 10:00	3.00	MAINT	42				DELSCO TOM. FLUID LEVEL 7100. MADE 2 SWAB RUNS AND GOT BACK 1 BBL. 700ARRIVED TO NBU 922-36G1T TRAVELD TO BONANZA 1023 6N4BS 74528692680BLEW TBG DOWN 80017000710010029116920TUBING BLEW DEAD AFTER RUN 830271007100029006920TUBING WAS DRY 900CONTACTED KERR-MCGEE PERSONEL 945SHUT WELL IN TRAVELD TO BONANZA 1023 9B3BS

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW	Spud Conductor: 4/6/2010	Spud Date: 4/14/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-6L PAD	Rig Name No:
Event: WELL WORK EXPENSE	Start Date: 9/23/2013	End Date: 9/23/2013
Active Datum: RKB @5,158.00usft (above Mean Sea Level)	UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/30/2013	7:00 - 9:00	2.00	MAINT	35				<p>SLICKLINE REPORT SERVICE RECORD WELL NAME:Bonanza 1023-6N4BSJob Code:80012176 WINS #:ZID:CTS953 FOREMAN:V1-Ryan KunkeMECHANICAL:Tim Falcetti SLICKLINE COMPANYR&B Slickline SLICKLINE OPERATORLance BirdTEL.NUMBER: (435)823-0779 DATE:9/30/2013Ex. mm/dd/yy</p> <p>JOB DESCRIPTION Ran in with JDC stacked out @ 7150'. Looked at my old report and it showed that I stacked out with the JDC @ 7154' and with the 1 1/4" block @ 7156'. Talked to ron and he told me to pull of and that they would evaluate the well and see about shooting holes in the tubing. Wasnt able to latch plunger or spring and didnt get a sample. Opened well to tanks blew dead in 10 min. left open for 45 min. didn't bring anything. FLUID LEVEL?SEAT NIPPLE DEPTH7830 SN TYPEDrop Down MenuTD (Max Depth)7150</p> <p>JOB DETAILS SPRING AND/OR PRODUCTION TOOL DETAIL Spring OutNoneSpring InNone Stuck SpringYes, stuck-unalbe to latchCorrosion on SpringDrop Down Menu Bailed AcidNo Broken SpringDrop Down MenuScale on SpringDrop Down Menu Production ToolsNoneDepth of Tool Other HardwareNone PLUNGER DETAIL Stuck PlungerDrop Down MenuCorrosion on PlungerDrop Down Menu Broken PlungerDrop Down MenuScale on PlungerDrop Down Menu SOLIDS DETAIL Tight SpotsYes, down by SNSeverity of TrashHeavy Solid sample to turn inNoSolid Sample SourceDrop Down Menu Speculated Type of SolidIron SulfideSpeculated Depth of Solid LOST SLICKLINE TOOLS Slickline Tools LostNoDepth of Tool</p> <p>JOB CHARGES ITEM# UNITSUNITS\$/UNITTOTAL Hourly Operating Charge2HRS\$80.00\$160.00 Tool Rental1HRS\$100.00\$100.00 Maintenance job charge47JOB\$1.20\$56.40 \$0.00 TOTAL\$316.40</p>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: PONDEROSA
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6N4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6111
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/21/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Production Enhancement"/>

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

THE OPERATOR CONDUCTED THE FOLLOWING WORKOVER/WELLBORE CLEANOUT ON THE SUBJECT WELL ON 10/21/2013. PLEASE SEE THE ATTACHED CHRONOLOGICAL WELL HISTORY FOR DETAILS. THANK YOU.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 March 14, 2014

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 3/14/2014	

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW		Spud Conductor: 4/6/2010		Spud Date: 4/14/2010	
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD		
Event: WELL WORK EXPENSE			Start Date: 10/17/2013		End Date: 10/21/2013
Active Datum: RKB @5,158.00usft (above Mean Sea Level)			UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/17/2013	7:00 - 7:30	0.50	MAINT	30	A	P		MIRU
	7:30 - 7:45	0.25	MAINT	48		P		HSM, REVIEW PUNCHER TBG
	7:45 - 8:00	0.25	MAINT	30	F	P		SICP. 610 PSI. TP. 50 PSI. BLEW TBG DWN, PUMP 20 BBLs DWN TBG, PLUGGED, PRESSURE UP TO 1000 PSI BLEED TBG DWN, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT, PU ON TBG, TOOK 50K TO UNLAND TBG HANGER, TBG CAME FREE.
	8:00 - 8:30	0.50	MAINT	34	H	P		RU CUTTERS, RIH W/ 1-9/16 TBG PUNCHER & PUNCHER TBG @ 7116'-17', POOH TOOLS, RD CUTTERS.
	8:30 - 9:45	1.25	MAINT	31	I	P		PU & RIH 28 JTS. TBG F/ TRAILER, TAG @ 8717' BTM PERF @ 8606' (111' RATHOLE) POOH 28 JTS.
	9:45 - 14:45	5.00	MAINT	45	A	P		RU SCAN TECH, POOH & SCAN 247 JTS. 2-3/8" L-80 TBG, LD 63 JTS. DUE TO INTERNAL & EXTERNAL SCALE W/ PITTING, JTS. 224-247 PLUGGED W/ SCALE, JNT # 224 WAS PUNCHER W/ 4 HOLES, FOUND PLUNGER IN JNT # 226 & BUMPER STRING STUCK IN XN, RD SCAN TECH.
	14:45 - 17:00	2.25	MAINT	31	I	P		PU 3-7/8 LONGNECK SLAUGH MILL. FLOAT SUB, TALLY, & RIH 184 JTS. 2-3/8" L-80 TBG, EOT @ 5820', SWI, SDFN.
10/18/2013	7:00 - 7:15	0.25	MAINT	48		P		JSA-SAFETY MEETING
	7:15 - 14:00	6.75	MAINT	31	I	P		400# ON WELL, RIH W/ 2 3/8" L-80 TBG, TAG @ 6858', R/U SWIVEL AND FOAM UNIT, C/O SCALE TO 6921', RIH TAG @ 7697', C/O SCALE TO 7780', RIH TAG 8630' C/O FILL TO 8720', PBTD, CIRC WELL CLEAN, R/D SWIVEL AND FOAM UNIT,
	14:00 - 16:00	2.00	MAINT	31	I	P		P/O LAY DN 28 JTS ON TRAILER, TOOH W/ 2 3/8" TBG TO @ 5000', SHUT WELL IN SDFWE
10/21/2013	7:00 - 7:15	0.25	MAINT	48		P		JSA-SAFETY MEETING
	7:15 - 8:30	1.25	MAINT	31	I	P		400# ON WELL, TOOH W/ TBG,
	8:30 - 15:00	6.50	MAINT	31	I	P		P/U LSN NIPPLE, RIH W/ 2 3/8" L-80 TBG, LAND TBG W/ 247 JTS 2 3/8" L-80 TBG AT 7841.49', BROACH TBG IN HOLE, FOUND 1 JT THAT WOULD NOT BROACH, N/D BOPS, N/U WELL HEAD, SHUT WELL IN, R/D SERVICE UNIT MOVE OFF LOC, TURN WELL OVER TO PRODUCTION,
							KB 15:00' HANGER .83' 63 JTS 2 3/8" L-80 NEW TBG = 2000.52' 184 JTS 2 3/8" L-80 OLD TBG = 5824.04' 2 3/8" LSN NIPPLE, 1.875 = 1.10'	
							7841.49'	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: PONDEROSA
PHONE NUMBER: 720 929-6507	8. WELL NAME and NUMBER: BONANZA 1023-6N4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. API NUMBER: 43047504550000
	9. FIELD and POOL or WILDCAT: WILDCAT 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/22/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The BONANZA 1023-6N4BS well was returned to production on 4/22/2016. Thank you.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 April 28, 2016**

NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUMBER 720 929-6808	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 4/27/2016	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: PONDEROSA
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1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6N4BS
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504550000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6454	9. FIELD and POOL or WILDCAT: 435616101 BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 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: 8/17/2016 <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 checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the BONANZA 1023-6N4BS well. Please see the attached procedure for details. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 25, 2016

By: *Derek Duff*

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A		DATE 8/17/2016

BONANZA 1023-6N4BS
1531' FSL & 736' FWL
NWSW SEC. 6, T10S, R23E
UINTAH UT

KBE: 5156'
GLE: 5144'
TD: 8845'
PBTD: 8809'

API NUMBER: 4304750455
LEASE NUMBER: UTU38419
LAT/LONG: 39.974861/-109.376194

CASING : 11" HOLE
SURFACE 8.625" 28# J-55 @ 2055'

PRODUCTION 7.875" HOLE
 4.5" 11.6# I-80 @ 8821'
 Est. TOC @ 1320' CBL

PERFORATIONS: WASATCH-MESAVERDE TOP-BOTTOM 6590'-8604'

TUBING: 2.375" 4.7# L-80 TBG at 7826'

Tubular/Borehole	ID	Drift inches	Collapse psi	Burst psi	Capacities		
	inches				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg	1.995	1.901	8100	7700	0.1624	0.02171	0.00387
2.375" 4.7# P-110 tbg	1.995	1.901	13800	15400	0.1624	0.02171	0.00387
2.375" 4.7# L-80 tbg	1.995	1.901	11780	11200	0.1624	0.02171	0.00387
4.5" 11.6# I-80 csg	4	3.875	6350	7780	0.65282	0.08727	0.01554
8.625" 28# J-55 csg	8.017	7.892	1880	3390	2.6223	0.35055	0.06244

Annular Capacities	Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" tbg. X 4.5" csg	0.42272	0.05651	0.01006
4.5" csg. X 8.625" csg	1.79607	0.2401	0.04276
4.5" csg X 7.875 borehole	1.70406	0.2278	0.04057

GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Uinta	Surface
Top Green River	973'
Top Mahogany	1979'
Base Parachute	2918'
Top Wasatch	4479'
Top Mesaverde	6596'

<http://digitallibrary.utah.gov/awweb/awarchive?type=file&item=55737>

BMSW Elevation ~2016' MSL
 BMSW Depth ~3140'

BONANZA 1023-6N4BS PLUG & ABANDONMENT PROCEDURE

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED AS PER SOP.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.145 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY 48 HOURS BEFORE MOVING ON LOCATION.

PERTINENT WELL HISTORY: SEAT NIPPLE @ 7841' (TUBING PERFORATED @ 7012' - 18')

PROCEDURE

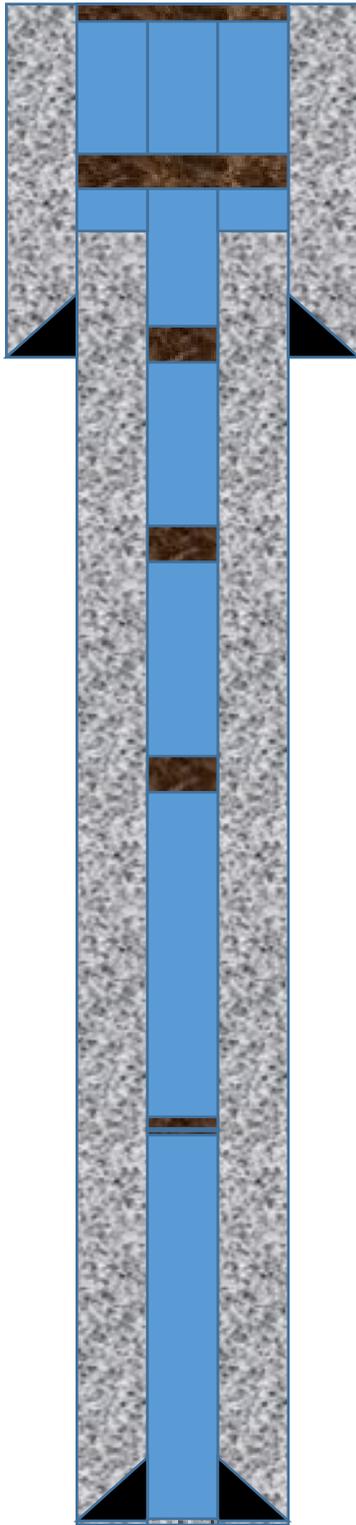
Note: Approx. **146 SXS** Class "G" cement needed for procedure & **(1) 4.5" CIBP**

Note: YES GYRO ON RECORD. (IF GYRO NEEDED, A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE).

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL PER FOREMAN DISCRETION.
3. ISOLATE PERFORATIONS (8604'-6590'): RIH ON WIRELINE OR TUBING W/ 4.5" CIBP. SET @ ~6540', (50' ABOVE TOP PERFORATION AT 6590'). RELEASE CIBP, PUH 10', CIRC ENTIRE HOLE W/ TREATED FRESH WATER AND PRESSURE TEST CASING. SET A 105FT BALANCED CMT PLUG F/ 6540' to 6435'(8 SXS, 9.16 FT3, 1.64 BBLs).
4. PROTECT WASATCH TOP (4479'): PUH WITH TUBING AND PUMP A MINIMUM OF (210FT) CMT F/ 4479' to 4269' (16 SXS, 18.32 FT3, 3.27 BBLs).
5. PROTECT BMSW (3140'): PUH WITH TUBING AND PUMP A MINIMUM OF (210FT) CMT F/ 3245' to 3035' (16 SXS, 18.32 FT3, 3.27 BBLs).
6. PROTECT CASING SHOE AND MAHOGANY BASE (2055', 1979'): PUH WITH TUBING AND PUMP A MINIMUM OF (236FT) CMT F/ 2109' to 1873' (18 SXS, 20.61 FT3, 3.68 BBLs).
7. PROTECT GREEN RIVER (973'): POOH AND RIG UP WIRELINE. RIH WITH PERF GUNS FOR PRODUCTION CASING. PERFORATE CASING AT ~1074.5' (TOC @ ~1320').PUMP A MINIMUM OF (203FT) CMT F/ 1074.5' to 871.5' (58 SXS, 66.41 FT3, 11.83 BBLs).
8. PROTECT SURFACE (102'): PUH WITH TUBING AND PUMP A MINIMUM OF (105 FT) CMT F/ 105'-0' (8 SXS, 9.16 FT3, 1.64 BBLs). POOH AND RUN 1 INCH TUBING DOWN THE PRODUCTION/SURFACE CASING ANNULUS TO AS DEEP AS POSSIBLE AND CEMENT TO SURFACE (22 SXS, 25.21 FT3, 4.49 BBLs).
9. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
10. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

BONANZA 1023-6N4BS

Total SXS: 146, Total CIBP: 1



<- Plug for Surface at 0' from 0' to 102' with 30SXS,102ft.

<- Plug for GreenRiver at 973' from 1074.5' to 871.5' with 58SXS,203ft.

<- TOC at 1320'

<- Plug for Mahogany and Casing Shoe at 1979', 2055' from 2109' to 1873' with

<- Parachute Base at 2918'

<- Plug for BMSW at 3140' from 3245' to 3035' with 16SXS,210ft.

<- Plug for Wasatch at 4479' from 4479' to 4269' with 16SXS,210ft.

<- Plug above CIBP at 6540' from 6540' to 6435' with 8SXS,105ft.

<-CIBP Above Perfs at 6540'

<-Top Perf at 6590'

<-PBD at 8809'

<- Production Casing Shoe at 8821'

<-TD at 8845'

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 38419
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: PONDEROSA
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: BONANZA 1023-6N4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1531 FSL 0736 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	9. API NUMBER: 43047504550000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	COUNTY: UINTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	STATE: UTAH

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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/27/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the Bonanza 1023-6N4BS on 9/27/2016. Please see the operations summary report for details. Thank you.

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

FOR RECORD ONLY

October 05, 2016

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 10/3/2016	

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6N4BS YELLOW		Spud Conductor: 4/6/2010		Spud date: 4/14/2010				
Project: UTAH-UINTAH			Site: BONANZA 1023-6L PAD			Rig name no.: MILES 4/4		
Event: ABANDONMENT			Start date: 9/19/2016			End date: 9/27/2016		
Active datum: RKB @5,158.00usft (above Mean Sea Level)				UWI: NW/SW/0/10/S/23/E/6/0/0/6/PM/S/1,531.00/W/0/736.00/0/0				

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/26/2016	7:00 - 7:30	0.50	ABANDP	48		P		HSM, WORKING W/ SCANNERS.
	7:30 - 10:00	2.50	ABANDP	30	A	P		SICP & SITP 50 PSI, RIGGED UP RIG, BLEW WELL DWN, ND WH UNLANDED TBG NOT STUCK. NU BOPS RU FLOOR UNLAND L/D HANGER RU SCAN TECH.
	10:00 - 15:00	5.00	ABANDP	45	A	P		SCAN OUT W/ 247 JTS L-80, 135 YELLOW 112 RED. LIGHT EXT SCALE JTS 38-142, MEDIUM EXT SCALE JTS 142-247, LIGHT INT PITTING JTS 160-176, MEDIUM INTRNAL PITTING JTS 205-247, PERF HOLES IN JT 221, NOMINAL WALL LOSS TROUGHOUT STRING. ALL JTS BELOW PERF HOLES WERE PLUGGED.
	15:00 - 17:00	2.00	ABANDP	31	I	P		PU 41/2 CIBP & 93 JTS 23/8 J-55, EOT @ 2963'.
9/27/2016	7:00 - 7:30	0.50	ABANDP	48		P		HSM, WORKING W/ CEMENT CREW.
	7:30 - 8:30	1.00	ABANDP	31	I	P		SICP & SITP 100 PSI, BLEW WELL DWN, PU REM 71 JTS 23/8 SET CIBP @ 5244'.
	8:30 - 17:00	8.50	ABANDP	51	D	P		PU 10' CIRC WELL W/ 90 BBLs T-MAC, TEST CSG TO 500 PSI.OK PUMPED 2.6 BBLs FRESH, 2.04 BBLs 10 SXS 15.8# 1.15 YEILD G CMT, 1 BBL FRESH, DISPL W/ 18.7 BBLs T-MAC. L/D 24 JTS EOT @ 4469' PUMPED 2.6 BBLs FRESH, 3.27 BBLs 16 SXS 15.8# 1.15 YEILD CMT, 1 FRESH, DISPL W/ 15.3 BBLs T-MAC. L/D 44 JTS EOT @ 3059'. PUMPED 2.6 FRESH, 3.27 BBLs 16 SXS 15.8# 1.15 YEILD CMT, 1 FRESH, DISPL W/ 9.9 BBLs T-MAC. L/D 30 JTS EOT @ 2099' PUMPED 2.6 FRESH, 3.68 BBLD 18 SXS 15.8# 1.15 YEILD CMT, 1 FRESH, DISPL W/ 6.1 BBLs T-MAC. L/D 34 JTS POOH W/ 32 JTS RU WL RIH PERF CSG @ 1074.5' POOH, RD WL. CLOSE RAMS TRY TO GET INJ RATE. GOT CIRC UP 85/8, @ 2.5 BPM @ 100 PSI, RIH W/ 41/2 CIBP & 32 JTS SET CICR @ 1022', INJ RATE OF 1 BPM @ 300 PSI. PUMPED 12.2 BBLs 60 SXS 15.8# 1.15 YEILD G CMT, 1.9 FRESH UNSTUNG FROM RET DIPL W/ 1.4 BBLs, 50 SXS UNDER & 10 SXS ON TOP OF RET. L/D 32 JTS. RD FLOOR ND BOPS SURF HAS BLOW. RIG DOWN RIG PULL FORWARD. DIG UP & CUT WH OFF TOP OFF 41/2 & 85/8. W/ 80 SXS CMT. WELD ON PLATE P&A COMPLETE.