

RECEIVED

SUR: C-27-26s-35e, 1270/N & 1980/W
 BHL: C-27-26s-35e, 1239/N & 1992/W
 API #30-025-38683

devon

NOV 05 2008

DEVON

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HOBBBS (C)

Deviation Summary

Legal Well Name:		ARENA ROJA FED UNIT 5		Spud Date:		2/22/2008		S/T #		V.S. AZI (°)	
Common Well Name:		ARENA ROJA FED UNIT 5		Start:		2/20/2008		OH		225.00	
Event Name:		ONSHORE ORIG DRLG		End:		7/27/2008		01		225.00	
Contractor Name:				Rig Release:							
Rig Name:				Rig Number:							
TMD: 15,155.00 (ft)		TVD: 15,093.72 (ft)		Calculation Method:		Minimum Curvature					
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	0.00	0.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	
OH	240.00	0.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	502.00	0.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	745.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	955.00	0.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	1,223.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	1,505.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	1,757.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	2,012.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	2,266.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	2,489.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	2,808.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	3,062.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	3,379.00	3.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	3,508.00	2.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	3,634.00	2.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	3,810.00	2.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	3,953.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	4,081.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	4,209.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	4,334.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	4,820.00	2.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	4,914.00	3.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	5,004.00	2.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	5,202.00	1.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	5,365.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	5,676.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	6,154.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT

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Deviation Summary

Legal Well Name:		ARENA ROJA FED UNIT 5				Spud Date: 2/22/2008				S/T #	V.S. AZI (°)
Common Well Name:		ARENA ROJA FED UNIT 5				Start: 2/20/2008				OH	225.00
Event Name:		ONSHORE ORIG DRLG				End: 7/27/2008				01	225.00
Contractor Name:						Rig Release:					
Rig Name:						Rig Number:					
TMD: 15,155.00 (ft)		TVD: 15,093.72 (ft)				Calculation Method: Minimum Curvature					
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	6,570.00	0.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	
OH	7,076.00	0.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	7,617.00	0.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	8,127.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	8,609.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	9,123.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	9,982.00	2.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	10,610.00	2.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	11,069.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	11,578.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	12,137.00	1.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	12,645.00	1.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	TOT
OH	0.00	0.00	0.00	NYN	0.00	0.00	0.00	0.00	0.00	0.00	GM
OH	100.00	0.58	318.94	YNN	100.00	0.38	-0.33	-0.03	0.58	0.58	GM
OH	200.00	0.43	296.59	YNN	199.99	0.93	-1.00	0.05	0.24	-0.15	GM
OH	300.00	0.49	299.66	YNN	299.99	1.31	-1.71	0.28	0.06	0.06	GM
OH	400.00	0.40	313.12	YNN	399.99	1.76	-2.33	0.41	0.14	-0.09	GM
OH	500.00	0.37	312.99	YNN	499.99	2.22	-2.82	0.43	0.03	-0.03	GM
OH	600.00	0.40	311.30	YNN	599.98	2.67	-3.32	0.46	0.03	0.03	GM
OH	700.00	0.53	299.26	YNN	699.98	3.13	-3.99	0.61	0.16	0.13	GM
OH	800.00	0.42	313.59	YNN	799.98	3.61	-4.66	0.74	0.16	-0.11	GM
OH	900.00	0.25	333.31	YNN	899.98	4.05	-5.02	0.68	0.20	-0.17	GM
OH	1,000.00	0.36	321.96	YNN	999.97	4.50	-5.31	0.58	0.13	0.11	GM
OH	1,100.00	0.14	109.94	YNN	1,099.97	4.70	-5.39	0.49	0.48	-0.22	GM
OH	1,200.00	0.33	115.78	YNN	1,199.97	4.53	-5.02	0.34	0.19	0.19	GM
OH	1,300.00	0.26	64.17	YNN	1,299.97	4.51	-4.55	0.03	0.26	-0.07	GM
OH	1,400.00	0.42	95.74	YNN	1,399.97	4.57	-3.99	-0.41	0.24	0.16	GM
OH	1,500.00	0.08	170.98	YNN	1,499.97	4.46	-3.61	-0.60	0.41	-0.34	GM

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225.00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225.00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method: Minimum Curvature			

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	1,600.00	0.10	240.95	YNN	1,599.97	4.35	-3.67	-0.48	0.10	0.02	GM
OH	1,700.00	0.30	194.42	YNN	1,699.97	4.06	-3.82	-0.17	0.24	0.20	GM
OH	1,800.00	0.33	175.67	YNN	1,799.97	3.52	-3.86	0.24	0.11	0.03	GM
OH	1,900.00	0.26	134.74	YNN	1,899.97	3.07	-3.68	0.43	0.22	-0.07	GM
OH	2,000.00	0.18	106.63	YNN	1,999.96	2.87	-3.37	0.35	0.13	-0.08	GM
OH	2,100.00	0.52	90.22	YNN	2,099.96	2.82	-2.76	-0.04	0.35	0.34	GM
OH	2,200.00	0.67	64.22	YNN	2,199.96	3.07	-1.78	-0.91	0.31	0.15	GM
OH	2,300.00	0.49	79.98	YNN	2,299.95	3.40	-0.83	-1.81	0.24	-0.18	GM
OH	2,400.00	0.96	78.70	YNN	2,399.94	3.64	0.41	-2.86	0.47	0.47	GM
OH	2,500.00	1.25	73.87	YNN	2,499.93	4.11	2.28	-4.51	0.30	0.29	GM
OH	2,600.00	1.70	68.05	YNN	2,599.89	4.96	4.70	-6.83	0.47	0.45	GM
OH	2,700.00	1.85	64.59	YNN	2,699.84	6.21	7.54	-9.72	0.18	0.15	GM
OH	2,800.00	2.22	64.90	YNN	2,799.78	7.72	10.75	-13.06	0.37	0.37	GM
OH	2,900.00	2.16	62.92	YNN	2,899.71	9.40	14.18	-16.68	0.10	-0.06	GM
OH	3,000.00	2.20	62.56	YNN	2,999.64	11.15	17.56	-20.30	0.04	0.04	GM
OH	3,100.00	2.34	57.00	YNN	3,099.56	13.14	20.98	-24.13	0.26	0.14	GM
OH	3,200.00	2.70	57.03	YNN	3,199.46	15.54	24.66	-28.43	0.36	0.36	GM
OH	3,300.00	2.90	56.32	YNN	3,299.34	18.22	28.75	-33.21	0.20	0.20	GM
OH	3,400.00	2.99	59.76	YNN	3,399.21	20.94	33.10	-38.21	0.20	0.09	GM
OH	3,500.00	2.95	57.76	YNN	3,499.07	23.62	37.53	-43.24	0.11	-0.04	GM
OH	3,600.00	2.51	58.63	YNN	3,598.96	26.14	41.58	-47.88	0.44	-0.44	GM
OH	3,700.00	2.11	57.60	YNN	3,698.88	28.26	45.00	-51.81	0.40	-0.40	GM
OH	3,800.00	1.77	57.82	YNN	3,798.82	30.07	47.87	-55.11	0.34	-0.34	GM
OH	3,900.00	1.84	54.51	YNN	3,898.77	31.83	50.48	-58.20	0.13	0.07	GM
OH	4,000.00	1.36	61.20	YNN	3,998.73	33.33	52.83	-60.92	0.51	-0.48	GM
OH	4,100.00	1.09	69.02	YNN	4,098.71	34.24	54.75	-62.93	0.32	-0.27	GM
OH	4,200.00	0.80	77.66	YNN	4,198.70	34.73	56.32	-64.39	0.32	-0.29	GM
OH	4,300.00	0.73	129.94	YNN	4,298.69	34.47	57.50	-65.03	0.68	-0.07	GM

Deviation Summary

Legal Well Name:		ARENA ROJA FED UNIT 5		Spud Date:		2/22/2008		S/T #		V.S. AZI (°)	
Common Well Name:		ARENA ROJA FED UNIT 5		Start:		2/20/2008		OH		225.00	
Event Name:		ONSHORE ORIG DRLG		End:		7/27/2008		01		225.00	
Contractor Name:				Rig Release:							
Rig Name:				Rig Number:							
TMD: 15,155.00 (ft)		TVD: 15,093.72 (ft)		Calculation Method:		Minimum Curvature					
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	4,400.00	0.87	117.68	YNN	4,398.68	33.71	58.66	-65.31	0.22	0.14	GM
OH	4,500.00	1.94	106.73	YNN	4,498.65	32.87	60.95	-66.34	1.10	1.07	GM
OH	4,600.00	2.67	107.74	YNN	4,598.57	31.67	64.79	-68.21	0.73	0.73	GM
OH	4,700.00	3.16	107.73	YNN	4,698.44	30.12	69.63	-70.54	0.49	0.49	GM
OH	4,800.00	3.45	104.01	YNN	4,798.27	28.56	75.18	-73.35	0.36	0.29	GM
OH	4,900.00	3.50	109.03	YNN	4,898.09	26.83	80.98	-76.24	0.31	0.05	GM
OH	5,000.00	2.87	112.24	YNN	4,997.93	24.89	86.19	-78.54	0.65	-0.63	GM
OH	5,100.00	2.03	110.81	YNN	5,097.84	23.31	90.16	-80.24	0.84	-0.84	GM
OH	5,200.00	1.67	102.24	YNN	5,197.79	22.37	93.24	-81.75	0.45	-0.36	GM
OH	5,300.00	1.25	97.59	YNN	5,297.75	21.92	95.74	-83.20	0.44	-0.42	GM
OH	5,400.00	1.28	100.60	YNN	5,397.73	21.57	97.92	-84.50	0.07	0.03	GM
OH	5,500.00	1.23	100.30	YNN	5,497.71	21.17	100.08	-85.74	0.05	-0.05	GM
OH	5,600.00	1.30	100.14	YNN	5,597.68	20.78	102.25	-87.00	0.07	0.07	GM
OH	5,700.00	1.20	107.69	YNN	5,697.66	20.27	104.36	-88.13	0.19	-0.10	GM
OH	5,800.00	1.11	106.05	YNN	5,797.64	19.68	106.29	-89.07	0.10	-0.09	GM
OH	5,900.00	0.93	114.71	YNN	5,897.62	19.07	107.96	-89.82	0.24	-0.18	GM
OH	6,000.00	0.69	115.59	YNN	5,997.61	18.47	109.24	-90.31	0.24	-0.24	GM
OH	6,100.00	0.79	114.32	YNN	6,097.60	17.93	110.41	-90.75	0.10	0.10	GM
OH	6,200.00	0.73	127.78	YNN	6,197.59	17.25	111.54	-91.07	0.19	-0.06	GM
OH	6,300.00	0.47	134.85	YNN	6,297.59	16.58	112.34	-91.15	0.27	-0.26	GM
OH	6,400.00	0.51	123.70	YNN	6,397.59	16.04	113.00	-91.24	0.10	0.04	GM
OH	6,500.00	0.80	142.23	YNN	6,497.58	15.24	113.80	-91.24	0.36	0.29	GM
OH	6,600.00	0.42	133.27	YNN	6,597.57	14.44	114.49	-91.17	0.39	-0.38	GM
OH	6,700.00	0.27	106.57	YNN	6,697.57	14.12	114.98	-91.29	0.22	-0.15	GM
OH	6,800.00	0.59	131.71	YNN	6,797.57	13.71	115.59	-91.43	0.36	0.32	GM
OH	6,900.00	0.32	122.91	YNN	6,897.57	13.21	116.21	-91.52	0.28	-0.27	GM
OH	7,000.00	0.33	105.04	YNN	6,997.56	12.99	116.72	-91.72	0.10	0.01	GM
OH	7,100.00	0.36	116.11	YNN	7,097.56	12.78	117.28	-91.97	0.07	0.03	GM

Deviation Summary

Legal Well Name:		ARENA ROJA FED UNIT 5				Spud Date: 2/22/2008				S/T #	V.S. AZI (°)
Common Well Name:		ARENA ROJA FED UNIT 5				Start: 2/20/2008				OH	225.00
Event Name:		ONSHORE ORIG DRLG				End: 7/27/2008				01	225.00
Contractor Name:						Rig Release:					
Rig Name:						Rig Number:					
TMD: 15,155.00 (ft)		TVD: 15,093.72 (ft)				Calculation Method: Minimum Curvature					
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	7,200.00	0.14	198.45	YNN	7,197.56	12.52	117.53	-91.96	0.37	-0.22	GM
OH	7,300.00	0.09	98.52	YNN	7,297.56	12.39	117.57	-91.90	0.18	-0.05	GM
OH	7,400.00	0.07	304.48	YNN	7,397.56	12.42	117.59	-91.93	0.16	-0.02	GM
OH	7,500.00	0.14	214.05	YNN	7,497.56	12.35	117.48	-91.80	0.16	0.07	GM
OH	7,600.00	0.28	2.59	YNN	7,597.56	12.49	117.42	-91.86	0.41	0.14	GM
OH	7,700.00	0.05	23.81	YNN	7,697.56	12.78	117.45	-92.08	0.23	-0.23	GM
OH	7,727.00	0.29	345.96	YNN	7,724.56	12.85	117.44	-92.13	0.93	0.89	GM
01	0.00	0.00	0.00	NYN	0.00	0.00	0.00	0.00	0.00	0.00	GM
01	100.00	0.58	318.94	YNN	100.00	0.38	-0.33	-0.03	0.58	0.58	GM
01	200.00	0.43	296.59	YNN	199.99	0.93	-1.00	0.05	0.24	-0.15	GM
01	300.00	0.49	299.66	YNN	299.99	1.31	-1.71	0.28	0.06	0.06	GM
01	400.00	0.40	313.12	YNN	399.99	1.76	-2.33	0.41	0.14	-0.09	GM
01	500.00	0.37	312.99	YNN	499.99	2.22	-2.82	0.43	0.03	-0.03	GM
01	600.00	0.40	311.30	YNN	599.98	2.67	-3.32	0.46	0.03	0.03	GM
01	700.00	0.53	299.26	YNN	699.98	3.13	-3.99	0.61	0.16	0.13	GM
01	800.00	0.42	313.59	YNN	799.98	3.61	-4.66	0.74	0.16	-0.11	GM
01	900.00	0.25	333.31	YNN	899.98	4.05	-5.02	0.68	0.20	-0.17	GM
01	1,000.00	0.36	321.96	YNN	999.97	4.50	-5.31	0.58	0.13	0.11	GM
01	1,100.00	0.14	109.94	YNN	1,099.97	4.70	-5.39	0.49	0.48	-0.22	GM
01	1,200.00	0.33	115.78	YNN	1,199.97	4.53	-5.02	0.34	0.19	0.19	GM
01	1,300.00	0.26	64.17	YNN	1,299.97	4.51	-4.55	0.03	0.26	-0.07	GM
01	1,400.00	0.42	95.74	YNN	1,399.97	4.57	-3.99	-0.41	0.24	0.16	GM
01	1,500.00	0.08	170.98	YNN	1,499.97	4.46	-3.61	-0.60	0.41	-0.34	GM
01	1,600.00	0.10	240.95	YNN	1,599.97	4.35	-3.67	-0.48	0.10	0.02	GM
01	1,700.00	0.30	194.42	YNN	1,699.97	4.06	-3.82	-0.17	0.24	0.20	GM
01	1,800.00	0.33	175.67	YNN	1,799.97	3.52	-3.86	0.24	0.11	0.03	GM
01	1,900.00	0.26	134.74	YNN	1,899.97	3.07	-3.68	0.43	0.22	-0.07	GM
01	2,000.00	0.18	106.63	YNN	1,999.96	2.87	-3.37	0.35	0.13	-0.08	GM

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225.00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225.00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	2,100.00	0.52	90.22	YNN	2,099.96	2.82	-2.76	-0.04	0.35	0.34	GM
01	2,200.00	0.67	64.22	YNN	2,199.96	3.07	-1.78	-0.91	0.31	0.15	GM
01	2,300.00	0.49	79.98	YNN	2,299.95	3.40	-0.83	-1.81	0.24	-0.18	GM
01	2,400.00	0.96	78.70	YNN	2,399.94	3.64	0.41	-2.86	0.47	0.47	GM
01	2,500.00	1.25	73.87	YNN	2,499.93	4.11	2.28	-4.51	0.30	0.29	GM
01	2,600.00	1.70	68.05	YNN	2,599.89	4.96	4.70	-6.83	0.47	0.45	GM
01	2,700.00	1.85	64.59	YNN	2,699.84	6.21	7.54	-9.72	0.18	0.15	GM
01	2,800.00	2.22	64.90	YNN	2,799.78	7.72	10.75	-13.06	0.37	0.37	GM
01	2,900.00	2.16	62.92	YNN	2,899.71	9.40	14.18	-16.68	0.10	-0.06	GM
01	3,000.00	2.20	62.56	YNN	2,999.64	11.15	17.56	-20.30	0.04	0.04	GM
01	3,100.00	2.34	57.00	YNN	3,099.56	13.14	20.98	-24.13	0.26	0.14	GM
01	3,200.00	2.70	57.03	YNN	3,199.46	15.54	24.66	-28.43	0.36	0.36	GM
01	3,300.00	2.90	56.32	YNN	3,299.34	18.22	28.75	-33.21	0.20	0.20	GM
01	3,400.00	2.99	59.76	YNN	3,399.21	20.94	33.10	-38.21	0.20	0.09	GM
01	3,500.00	2.95	57.76	YNN	3,499.07	23.62	37.53	-43.24	0.11	-0.04	GM
01	3,600.00	2.51	58.63	YNN	3,598.96	26.14	41.58	-47.88	0.44	-0.44	GM
01	3,700.00	2.11	57.60	YNN	3,698.88	28.26	45.00	-51.81	0.40	-0.40	GM
01	3,800.00	1.77	57.82	YNN	3,798.82	30.07	47.87	-55.11	0.34	-0.34	GM
01	3,900.00	1.84	54.51	YNN	3,898.77	31.83	50.48	-58.20	0.13	0.07	GM
01	4,000.00	1.36	61.20	YNN	3,998.73	33.33	52.83	-60.92	0.51	-0.48	GM
01	4,100.00	1.09	69.02	YNN	4,098.71	34.24	54.75	-62.93	0.32	-0.27	GM
01	4,200.00	0.80	77.66	YNN	4,198.70	34.73	56.32	-64.39	0.32	-0.29	GM
01	4,300.00	0.73	129.94	YNN	4,298.69	34.47	57.50	-65.03	0.68	-0.07	GM
01	4,400.00	0.87	117.68	YNN	4,398.68	33.71	58.66	-65.31	0.22	0.14	GM
01	4,500.00	1.94	106.73	YNN	4,498.65	32.87	60.95	-66.34	1.10	1.07	GM
01	4,600.00	2.67	107.74	YNN	4,598.57	31.67	64.79	-68.21	0.73	0.73	GM
01	4,700.00	3.16	107.73	YNN	4,698.44	30.12	69.63	-70.54	0.49	0.49	GM
01	4,800.00	3.45	104.01	YNN	4,798.27	28.56	75.18	-73.35	0.36	0.29	GM

Deviation Summary

Legal Well Name: ARENA ROJA FED UNIT 5
 Common Well Name: ARENA ROJA FED UNIT 5
 Event Name: ONSHORE ORIG DRLG
 Contractor Name:
 Rig Name:
 TMD: 15,155.00 (ft) TVD: 15,093.72 (ft)

Spud Date: 2/22/2008
 Start: 2/20/2008
 End: 7/27/2008
 Rig Release:
 Rig Number:
 Calculation Method: Minimum Curvature

S/T #	V.S. AZI (°)
OH	225.00
01	225.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	4,900.00	3.50	109.03	YNN	4,898.09	26.83	80.98	-76.24	0.31	0.05	GM
01	5,000.00	2.87	112.24	YNN	4,997.93	24.89	86.19	-78.54	0.65	-0.63	GM
01	5,100.00	2.03	110.81	YNN	5,097.84	23.31	90.16	-80.24	0.84	-0.84	GM
01	5,200.00	1.67	102.24	YNN	5,197.79	22.37	93.24	-81.75	0.45	-0.36	GM
01	5,300.00	1.25	97.59	YNN	5,297.75	21.92	95.74	-83.20	0.44	-0.42	GM
01	5,400.00	1.28	100.60	YNN	5,397.73	21.57	97.92	-84.50	0.07	0.03	GM
01	5,500.00	1.23	100.30	YNN	5,497.71	21.17	100.08	-85.74	0.05	-0.05	GM
01	5,600.00	1.30	100.14	YNN	5,597.68	20.78	102.25	-87.00	0.07	0.07	GM
01	5,700.00	1.20	107.69	YNN	5,697.66	20.27	104.36	-88.13	0.19	-0.10	GM
01	5,800.00	1.11	106.05	YNN	5,797.64	19.68	106.29	-89.07	0.10	-0.09	GM
01	5,900.00	0.93	114.71	YNN	5,897.62	19.07	107.96	-89.82	0.24	-0.18	GM
01	6,000.00	0.69	115.59	YNN	5,997.61	18.47	109.24	-90.31	0.24	-0.24	GM
01	6,100.00	0.79	114.32	YNN	6,097.60	17.93	110.41	-90.75	0.10	0.10	GM
01	6,200.00	0.73	127.78	YNN	6,197.59	17.25	111.54	-91.07	0.19	-0.06	GM
01	6,300.00	0.47	134.85	YNN	6,297.59	16.58	112.34	-91.15	0.27	-0.26	GM
01	6,400.00	0.51	123.70	YNN	6,397.59	16.04	113.00	-91.24	0.10	0.04	GM
01	6,500.00	0.80	142.23	YNN	6,497.58	15.24	113.80	-91.24	0.36	0.29	GM
01	6,600.00	0.42	133.27	YNN	6,597.57	14.44	114.49	-91.17	0.39	-0.38	GM
01	6,700.00	0.27	106.57	YNN	6,697.57	14.12	114.98	-91.29	0.22	-0.15	GM
01	6,800.00	0.59	131.71	YNN	6,797.57	13.71	115.59	-91.43	0.36	0.32	GM
01	6,900.00	0.32	122.91	YNN	6,897.57	13.21	116.21	-91.52	0.28	-0.27	GM
01	7,000.00	0.33	105.04	YNN	6,997.56	12.99	116.72	-91.72	0.10	0.01	GM
01	7,100.00	0.36	116.11	YNN	7,097.56	12.78	117.28	-91.97	0.07	0.03	GM
01	7,200.00	0.14	198.45	YNN	7,197.56	12.52	117.53	-91.96	0.37	-0.22	GM
01	7,300.00	0.09	98.52	YNN	7,297.56	12.39	117.57	-91.90	0.18	-0.05	GM
01	7,400.00	0.07	304.48	YNN	7,397.56	12.42	117.59	-91.93	0.16	-0.02	GM
01	7,500.00	0.14	214.05	YNN	7,497.56	12.35	117.48	-91.80	0.16	0.07	GM
01	7,588.00	0.40	265.20	YNN	7,585.56	12.24	117.11	-91.46	0.38	0.30	MD

Deviation Summary

Legal Well Name: ARENA ROJA FED UNIT 5
 Common Well Name: ARENA ROJA FED UNIT 5
 Event Name: ONSHORE ORIG DRLG
 Contractor Name:
 Rig Name:
 TMD: 15,155.00 (ft) TVD: 15,093.72 (ft)

Spud Date: 2/22/2008
 Start: 2/20/2008
 End: 7/27/2008
 Rig Release:
 Rig Number:
 Calculation Method: Minimum Curvature

S/T #	V.S. AZI (°)
OH	225.00
01	225.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	7,620.00	1.10	238.50	YNN	7,617.56	12.07	116.74	-91.08	2.39	2.19	MD
01	7,684.00	3.50	235.30	YNN	7,681.50	10.63	114.61	-88.56	3.75	3.75	MD
01	7,788.00	3.50	232.30	YNN	7,785.31	6.88	109.48	-82.28	0.18	0.00	MD
01	7,820.00	3.50	229.10	YNN	7,817.25	5.65	107.97	-80.34	0.61	0.00	MD
01	7,852.00	4.00	232.80	YNN	7,849.18	4.33	106.35	-78.26	1.74	1.56	MD
01	7,884.00	4.50	237.70	YNN	7,881.09	2.99	104.40	-75.93	1.93	1.56	MD
01	7,916.00	5.30	242.60	YNN	7,912.97	1.64	102.02	-73.30	2.82	2.50	MD
01	7,948.00	6.30	246.10	YNN	7,944.81	0.24	99.11	-70.25	3.31	3.13	MD
01	7,981.00	6.90	246.90	YNN	7,977.59	-1.27	95.63	-66.72	1.84	1.82	MD
01	8,013.00	6.70	246.50	YNN	8,009.37	-2.77	92.15	-63.20	0.64	-0.63	MD
01	8,045.00	6.50	247.10	YNN	8,041.15	-4.21	88.77	-59.79	0.66	-0.63	MD
01	8,077.00	6.10	247.00	YNN	8,072.96	-5.58	85.53	-56.53	1.25	-1.25	MD
01	8,109.00	6.00	247.00	YNN	8,104.78	-6.90	82.43	-53.40	0.31	-0.31	MD-
01	8,141.00	6.00	247.30	YNN	8,136.61	-8.20	79.35	-50.31	0.10	0.00	MD-
01	8,174.00	6.10	247.10	YNN	8,169.42	-9.55	76.14	-47.09	0.31	0.30	MD-
01	8,206.00	6.40	247.80	YNN	8,201.23	-10.88	72.92	-43.87	0.97	0.94	MD-
01	8,238.00	6.30	247.00	YNN	8,233.04	-12.24	69.65	-40.60	0.42	-0.31	MD-
01	8,270.00	6.90	245.50	YNN	8,264.82	-13.73	66.29	-37.17	1.95	1.88	MD-
01	8,302.00	7.50	245.00	YNN	8,296.57	-15.41	62.65	-33.40	1.89	1.88	MD-
01	8,334.00	7.60	243.20	YNN	8,328.29	-17.24	58.87	-29.43	0.80	0.31	MD-
01	8,367.00	7.50	244.00	YNN	8,361.01	-19.17	54.98	-25.32	0.44	-0.30	MD-
01	8,400.00	7.20	245.60	YNN	8,393.74	-20.97	51.16	-21.35	1.10	-0.91	MD-
01	8,432.00	7.10	246.10	YNN	8,425.49	-22.60	47.53	-17.63	0.37	-0.31	MD-
01	8,465.00	7.30	244.50	YNN	8,458.23	-24.33	43.77	-13.75	0.86	0.61	MD-
01	8,497.00	7.40	241.70	YNN	8,489.96	-26.18	40.12	-9.86	1.16	0.31	MD-
01	8,529.00	7.10	238.20	YNN	8,521.71	-28.20	36.63	-5.96	1.67	-0.94	MD-
01	8,561.00	7.60	237.00	YNN	8,553.45	-30.39	33.17	-1.96	1.63	1.56	MD-
01	8,625.00	7.80	239.10	YNN	8,616.87	-34.93	25.90	6.39	0.54	0.31	MD-

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225.00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225.00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	8,690.00	7.60	243.20	YNN	8,681.28	-39.13	18.27	14.75	0.90	-0.31	MD-
01	8,754.00	7.60	248.80	YNN	8,744.72	-42.57	10.55	22.64	1.16	0.00	MD-
01	8,818.00	7.90	246.80	YNN	8,808.14	-45.83	2.56	30.60	0.63	0.47	MD-
01	8,883.00	7.20	243.80	YNN	8,872.57	-49.39	-5.20	38.60	1.24	-1.08	MD-
01	8,915.00	6.90	241.80	YNN	8,904.33	-51.19	-8.69	42.34	1.21	-0.94	MD-
01	8,947.00	6.80	241.80	YNN	8,936.10	-52.99	-12.06	45.99	0.31	-0.31	MD-
01	9,011.00	6.90	241.00	YNN	8,999.65	-56.64	-18.76	53.32	0.22	0.16	MD-
01	9,076.00	6.40	238.70	YNN	9,064.21	-60.42	-25.27	60.59	0.87	-0.77	MD-
01	9,140.00	6.10	240.40	YNN	9,127.83	-63.95	-31.27	67.33	0.55	-0.47	MD-
01	9,204.00	5.90	240.20	YNN	9,191.48	-67.27	-37.08	73.79	0.31	-0.31	MD-
01	9,269.00	6.50	238.10	YNN	9,256.10	-70.87	-43.11	80.59	0.99	0.92	MD-
01	9,333.00	6.80	238.60	YNN	9,319.67	-74.76	-49.42	87.80	0.48	0.47	MD-
01	9,397.00	6.20	239.10	YNN	9,383.26	-78.51	-55.61	94.84	0.94	-0.94	MD-
01	9,464.00	5.80	241.80	YNN	9,449.89	-81.97	-61.70	101.59	0.73	-0.60	MD-
01	9,529.00	5.80	236.00	YNN	9,514.56	-85.35	-67.32	107.96	0.90	0.00	MD-
01	9,593.00	7.10	231.80	YNN	9,578.15	-89.61	-73.11	115.06	2.16	2.03	MD-
01	9,657.00	7.50	235.80	YNN	9,641.63	-94.40	-79.67	123.09	1.01	0.63	MD-
01	9,721.00	8.30	245.00	YNN	9,705.03	-98.70	-87.31	131.53	2.33	1.25	MD
01	9,753.00	9.00	247.10	YNN	9,736.66	-100.65	-91.71	136.02	2.40	2.19	MD
01	9,786.00	9.40	247.60	YNN	9,769.24	-102.68	-96.58	140.90	1.24	1.21	MD
01	9,818.00	9.40	248.20	YNN	9,800.81	-104.65	-101.42	145.72	0.31	0.00	MD
01	9,850.00	9.10	247.90	YNN	9,832.39	-106.57	-106.20	150.45	0.95	-0.94	MD
01	9,882.00	8.60	244.80	YNN	9,864.01	-108.54	-110.71	155.03	2.16	-1.56	MD
01	9,914.00	7.70	241.90	YNN	9,895.69	-110.57	-114.76	159.34	3.09	-2.81	MD
01	9,946.00	6.80	239.00	YNN	9,927.43	-112.56	-118.28	163.22	3.04	-2.81	MD
01	9,978.00	6.40	239.30	YNN	9,959.22	-114.44	-121.43	166.79	1.25	-1.25	MD
01	10,010.00	6.30	237.30	YNN	9,991.02	-116.30	-124.44	170.23	0.76	-0.31	MD
01	10,044.00	5.90	238.20	YNN	10,024.83	-118.23	-127.50	173.76	1.21	-1.18	MD

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225.00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225.00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E/-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	10,075.00	5.10	238.00	YNN	10,055.69	-119.80	-130.02	176.65	2.58	-2.58	MD
01	10,107.00	4.70	237.50	YNN	10,087.57	-121.26	-132.33	179.32	1.26	-1.25	MD
01	10,138.00	4.00	237.20	YNN	10,118.48	-122.53	-134.31	181.62	2.26	-2.26	MD
01	10,170.00	3.30	234.30	YNN	10,150.42	-123.67	-136.00	183.62	2.26	-2.19	MD
01	10,202.00	2.40	235.30	YNN	10,182.38	-124.59	-137.30	185.18	2.82	-2.81	MD
01	10,234.00	2.00	223.70	YNN	10,214.35	-125.37	-138.24	186.40	1.86	-1.25	MD
01	10,266.00	1.80	214.30	YNN	10,246.34	-126.19	-138.91	187.45	1.16	-0.63	MD
01	10,298.00	1.50	216.70	YNN	10,278.32	-126.94	-139.44	188.36	0.96	-0.94	MD
01	10,361.00	0.00	185.20	YNN	10,341.31	-127.61	-139.93	189.18	2.38	-2.38	MD
01	10,425.00	0.10	359.50	YNN	10,405.31	-127.55	-139.93	189.14	0.16	0.16	MD
01	10,488.00	0.40	305.60	YNN	10,468.31	-127.37	-140.11	189.14	0.56	0.48	MD
01	10,552.00	0.20	286.80	YNN	10,532.31	-127.20	-140.40	189.22	0.34	-0.31	MD
01	10,615.00	0.40	308.80	YNN	10,595.31	-127.03	-140.68	189.30	0.36	0.32	MD
01	10,679.00	0.60	235.90	YNN	10,659.31	-127.08	-141.13	189.65	0.96	0.31	MD
01	10,774.00	1.00	190.70	YNN	10,754.30	-128.18	-141.69	190.83	0.76	0.42	MD
01	10,838.00	1.10	167.60	YNN	10,818.29	-129.32	-141.67	191.62	0.67	0.16	MD
01	10,980.00	2.10	182.20	YNN	10,960.23	-133.26	-141.47	194.26	0.75	0.70	MS
01	11,075.00	1.10	191.90	YNN	11,055.20	-135.89	-141.73	196.30	1.09	-1.05	MS
01	11,207.00	3.90	134.70	YNN	11,187.07	-140.29	-138.80	197.34	2.60	2.12	MS
01	11,298.00	4.20	126.00	YNN	11,277.84	-144.42	-133.90	196.80	0.75	0.33	MS
01	11,394.00	3.50	137.20	YNN	11,373.63	-148.64	-129.07	196.37	1.07	-0.73	MS
01	11,494.00	2.80	183.90	YNN	11,473.49	-153.32	-127.16	198.32	2.58	-0.70	MS
01	11,585.00	2.20	151.70	YNN	11,564.41	-157.07	-126.48	200.50	1.65	-0.66	MS
01	11,680.00	2.00	142.70	YNN	11,659.35	-160.00	-124.61	201.25	0.41	-0.21	MS
01	11,871.00	0.60	237.20	YNN	11,850.30	-163.19	-123.43	202.67	1.12	-0.73	MS
01	12,030.00	2.10	81.00	YNN	12,009.28	-163.18	-121.26	201.13	1.67	0.94	MS
01	12,253.00	2.20	84.10	YNN	12,232.12	-162.10	-112.96	194.50	0.07	0.04	MS
01	12,280.00	2.00	125.84	YNN	12,259.10	-162.33	-112.06	194.02	5.58	-0.74	GM

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225 00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225 00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	12,310.00	2.00	122.29	YNN	12,289.08	-162.91	-111.20	193.83	0.41	0.00	GM
01	12,340.00	2.00	88.09	YNN	12,319.07	-163.18	-110.23	193.33	3.92	0.00	GM
01	12,370.00	2.00	85.90	YNN	12,349.05	-163.12	-109.19	192.55	0.25	0.00	GM
01	12,400.00	3.75	84.42	YNN	12,379.01	-162.99	-107.69	191.40	5.84	5.83	GM
01	12,430.00	3.50	86.06	YNN	12,408.95	-162.83	-105.80	189.95	0.90	-0.83	GM
01	12,460.00	3.50	81.69	YNN	12,438.89	-162.63	-103.98	188.52	0.89	0.00	GM
01	12,490.00	4.00	75.31	YNN	12,468.83	-162.24	-102.06	186.89	2.17	1.67	GM
01	12,520.00	4.75	68.91	YNN	12,498.74	-161.52	-99.89	184.85	2.98	2.50	GM
01	12,550.00	5.50	72.53	YNN	12,528.62	-160.65	-97.36	182.44	2.72	2.50	GM
01	12,580.00	6.50	69.29	YNN	12,558.46	-159.61	-94.40	179.61	3.52	3.33	GM
01	12,610.00	7.75	67.85	YNN	12,588.22	-158.25	-90.94	176.20	4.21	4.17	GM
01	12,640.00	8.50	66.62	YNN	12,617.92	-156.61	-87.03	172.28	2.57	2.50	GM
01	12,670.00	9.50	70.39	YNN	12,647.55	-154.90	-82.66	167.98	3.87	3.33	GM
01	12,700.00	10.25	66.12	YNN	12,677.11	-152.99	-77.89	163.25	3.49	2.50	GM
01	12,730.00	11.00	61.66	YNN	12,706.60	-150.55	-72.93	158.02	3.71	2.50	GM
01	12,760.00	12.25	59.35	YNN	12,735.98	-147.57	-67.67	152.19	4.45	4.17	GM
01	12,790.00	12.75	57.19	YNN	12,765.27	-144.15	-62.15	145.88	2.28	1.67	GM
01	12,820.00	12.75	52.99	YNN	12,794.53	-140.36	-56.72	139.36	3.09	0.00	GM
01	12,850.00	13.00	49.77	YNN	12,823.78	-136.19	-51.50	132.72	2.53	0.83	GM
01	12,880.00	14.00	48.29	YNN	12,852.95	-131.60	-46.22	125.73	3.53	3.33	GM
01	12,910.00	15.00	44.99	YNN	12,881.99	-126.44	-40.77	118.23	4.32	3.33	GM
01	12,940.00	15.00	42.63	YNN	12,910.97	-120.83	-35.39	110.47	2.04	0.00	GM
01	12,970.00	15.00	39.30	YNN	12,939.95	-114.97	-30.30	102.73	2.87	0.00	GM
01	13,000.00	16.00	37.92	YNN	12,968.86	-108.71	-25.30	94.76	3.55	3.33	GM
01	13,030.00	16.50	37.77	YNN	12,997.66	-102.08	-20.15	86.43	1.67	1.67	GM
01	13,060.00	16.50	36.70	YNN	13,026.42	-95.29	-15.00	77.99	1.01	0.00	GM
01	13,090.00	17.00	35.49	YNN	13,055.15	-88.31	-9.90	69.45	2.03	1.67	GM
01	13,120.00	18.00	35.11	YNN	13,083.76	-80.94	-4.69	60.55	3.36	3.33	GM

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225.00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225.00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	13,150.00	17.50	32.67	NYN	13,114.32	-117.24	-174.54	51.58	2.99	-1.67	GM
01	13,195.00	19.40	41.10	YNN	13,157.01	-105.91	-165.97	192.25	7.27	4.22	MD
01	13,227.00	19.10	41.20	YNN	13,187.22	-97.97	-159.03	181.72	0.94	-0.94	MD
01	13,259.00	17.90	41.20	YNN	13,217.57	-90.33	-152.34	171.59	3.75	-3.75	MD
01	13,290.00	17.30	40.40	YNN	13,247.12	-83.23	-146.22	162.24	2.09	-1.94	MD
01	13,322.00	16.90	40.90	YNN	13,277.70	-76.09	-140.09	152.86	1.33	-1.25	MD
01	13,354.00	15.80	39.40	YNN	13,308.41	-69.21	-134.28	143.89	3.68	-3.44	MD
01	13,386.00	15.40	38.60	YNN	13,339.23	-62.52	-128.86	135.33	1.42	-1.25	MD
01	13,417.00	14.90	40.30	YNN	13,369.15	-56.27	-123.72	127.27	2.16	-1.61	MD
01	13,449.00	14.40	39.00	YNN	13,400.11	-50.04	-118.55	119.21	1.87	-1.56	MD
01	13,481.00	14.00	41.50	YNN	13,431.14	-44.04	-113.48	111.39	2.29	-1.25	MD
01	13,512.00	13.50	41.90	YNN	13,461.25	-38.54	-108.58	104.03	1.64	-1.61	MD
01	13,544.00	13.70	41.90	YNN	13,492.35	-32.94	-103.55	96.52	0.63	0.63	MD
01	13,576.00	12.80	41.80	YNN	13,523.50	-27.48	-98.66	89.19	2.81	-2.81	MD
01	13,607.00	11.80	42.90	YNN	13,553.79	-22.60	-94.21	82.60	3.31	-3.23	MD
01	13,636.00	11.00	41.60	YNN	13,582.21	-18.36	-90.36	76.87	2.90	-2.76	MD
01	13,667.00	10.60	43.60	YNN	13,612.66	-14.08	-86.43	71.07	1.77	-1.29	MD
01	13,697.00	9.80	44.00	YNN	13,642.19	-10.24	-82.75	65.76	2.68	-2.67	MD
01	13,736.00	8.50	46.20	YNN	13,680.69	-5.86	-78.37	59.56	3.45	-3.33	MD
01	13,768.00	8.10	45.10	YNN	13,712.36	-2.63	-75.06	54.94	1.34	-1.25	MD
01	13,800.00	8.00	44.80	YNN	13,744.04	0.54	-71.90	50.46	0.34	-0.31	MD
01	13,829.00	7.70	46.10	YNN	13,772.77	3.32	-69.07	46.50	1.20	-1.03	MD
01	13,861.00	7.40	49.60	YNN	13,804.49	6.14	-65.96	42.30	1.72	-0.94	MD
01	13,892.00	7.00	52.70	YNN	13,835.25	8.58	-62.94	38.44	1.80	-1.29	MD
01	13,924.00	6.70	53.20	YNN	13,867.02	10.88	-59.89	34.66	0.96	-0.94	MD
01	13,956.00	6.10	54.50	YNN	13,898.82	12.98	-57.01	31.13	1.93	-1.88	MD
01	13,987.00	5.90	55.70	YNN	13,929.65	14.84	-54.36	27.94	0.76	-0.65	MD
01	14,019.00	5.90	56.00	YNN	13,961.48	16.68	-51.63	24.71	0.10	0.00	MD

Deviation Summary

Legal Well Name:	ARENA ROJA FED UNIT 5	Spud Date:	2/22/2008	S/T #	V.S. AZI (°)
Common Well Name:	ARENA ROJA FED UNIT 5	Start:	2/20/2008	OH	225.00
Event Name:	ONSHORE ORIG DRLG	End:	7/27/2008	01	225.00
Contractor Name:		Rig Release:			
Rig Name:		Rig Number:			
TMD: 15,155.00 (ft)	TVD: 15,093.72 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	14,051.00	5.60	58.60	YNN	13,993.32	18.42	-48.94	21.58	1.24	-0.94	MD
01	14,083.00	5.40	59.30	YNN	14,025.17	20.00	-46.31	18.60	0.66	-0.63	MD
01	14,146.00	5.00	64.80	YNN	14,087.91	22.68	-41.28	13.15	1.01	-0.63	MD
01	14,177.00	5.10	65.40	YNN	14,118.79	23.83	-38.80	10.59	0.36	0.32	MD
01	14,209.00	5.10	65.40	YNN	14,150.67	25.01	-36.22	7.92	0.00	0.00	MD
01	14,241.00	5.00	65.10	YNN	14,182.54	26.19	-33.66	5.28	0.32	-0.31	MD
01	14,272.00	4.70	68.90	YNN	14,213.43	27.22	-31.25	2.85	1.42	-0.97	MD
01	14,302.00	4.20	69.30	YNN	14,243.34	28.05	-29.07	0.72	1.67	-1.67	MD
01	14,336.00	3.50	65.10	YNN	14,277.26	28.93	-26.97	-1.39	2.22	-2.06	MD
01	14,367.00	3.40	75.00	YNN	14,308.21	29.56	-25.22	-3.07	1.95	-0.32	MD
01	14,399.00	3.00	76.80	YNN	14,340.16	30.00	-23.49	-4.60	1.29	-1.25	MD
01	14,405.00	3.00	71.00	YNN	14,346.15	30.09	-23.19	-4.88	5.06	0.00	TLD
01	14,437.00	3.00	70.00	YNN	14,378.11	30.65	-21.61	-6.39	0.16	0.00	TLD
01	14,468.00	3.30	76.00	YNN	14,409.06	31.14	-19.98	-7.89	1.44	0.97	TLD
01	14,500.00	3.50	76.00	YNN	14,441.00	31.60	-18.14	-9.52	0.63	0.63	TLD
01	14,532.00	3.40	71.00	YNN	14,472.95	32.14	-16.29	-11.21	0.99	-0.31	TLD
01	14,563.00	4.00	76.00	YNN	14,503.88	32.71	-14.38	-12.96	2.20	1.94	TLD
01	14,595.00	4.00	77.00	YNN	14,535.80	33.23	-12.21	-14.86	0.22	0.00	TLD
01	14,627.00	4.50	86.00	YNN	14,567.71	33.56	-9.87	-16.76	2.60	1.56	TLD
01	14,659.00	4.80	86.00	YNN	14,599.61	33.75	-7.28	-18.72	0.94	0.94	SS
01	14,690.00	4.90	0.00	YNN	14,630.53	35.16	-5.98	-20.63	21.33	0.32	SS
01	14,888.00	6.70	202.00	YNN	14,828.15	32.90	-10.32	-15.96	5.75	0.91	TLD
01	14,973.00	7.30	103.00	YNN	14,912.75	27.07	-6.91	-14.26	12.52	0.71	TLD
01	15,090.00	7.20	0.00	YNN	15,029.20	32.75	0.36	-23.41	9.69	-0.09	TLD
01	15,091.00	6.90	100.70	YNN	15,030.20	32.80	0.42	-23.49	1,084.69	-30.00	TLD
01	15,155.00	7.00	99.00	YNN	15,093.72	31.48	8.05	-27.95	0.36	0.16	TLD