



Directional Survey

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 22 2015

Well Name: BELLOQ 2 STATE 5H

30-015-42896

Accepted for Record
UDN MDCD 10/22/15

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name INGLE WELLS		County EDDY		State/Province NEW MEXICO					
Surface Legal Location SEC2 T23S R31E		API/UWI 3001542896		Latitude (") 32° 20' 24.658" N		Longitude (") 103° 45' 6.311" W		Orig KB Elevation (ft) 3,455.40		Ground Elev MSL (ft) 3,430.40		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH			SAP Well ID 38003			Vertical Section Direction (*)					
Kick Offs & Key Depths													
Date 2/25/2015				Type Kick Off				Top Depth (ftKB) 9,515.0					
Actual Deviation Survey ACTUAL, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 2/14/2015		Description ACTUAL											
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (") 0.00		Azimuth Tie In (") 0.00		NSTie in (ft)		EWTie in (ft)			
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (*/100ft)	Survey Tool	Survey Company			
2/22/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	EM	EXTREME			
2/22/2015	115.00	0.62	260.87	115.00	0.06	-0.10	-0.61	0.54	EM	EXTREME			
2/14/2015	210.00	0.70	262.82	209.99	0.14	-0.25	-1.70	0.09	EM	EXTREME			
2/14/2015	297.00	0.79	255.22	296.98	0.29	-0.47	-2.80	0.15	EM	EXTREME			
2/14/2015	394.00	1.10	250.60	393.97	0.67	-0.95	-4.33	0.33	EM	EXTREME			
2/14/2015	493.00	0.88	265.81	492.96	0.94	-1.32	-5.98	0.34	EM	EXTREME			
2/14/2015	598.00	0.70	272.71	597.95	0.87	-1.35	-7.43	0.19	EM	EXTREME			
2/17/2015	765.00	0.48	254.21	764.94	0.91	-1.49	-9.12	0.17	EM	EXTREME			
2/17/2015	818.00	0.88	335.20	817.93	0.57	-1.18	-9.51	1.76	EM	EXTREME			
2/17/2015	904.00	0.79	339.20	903.93	-0.61	-0.03	-9.99	0.12	EM	EXTREME			
2/17/2015	996.00	0.62	357.39	995.92	-1.71	1.06	-10.24	0.30	EM	EXTREME			
2/17/2015	1,087.00	0.62	354.31	1,086.91	-2.70	2.04	-10.31	0.04	EM	EXTREME			
2/18/2015	1,179.00	0.88	333.53	1,178.91	-3.84	3.17	-10.68	0.40	EM	EXTREME			
2/18/2015	1,261.00	0.62	292.20	1,260.90	-4.62	3.90	-11.37	0.71	EM	EXTREME			
2/18/2015	1,363.00	0.62	285.80	1,362.89	-5.04	4.26	-12.41	0.07	EM	EXTREME			
2/18/2015	1,455.00	0.62	318.81	1,454.89	-5.60	4.77	-13.22	0.38	EM	EXTREME			
2/18/2015	1,547.00	0.62	310.19	1,546.88	-6.34	5.46	-13.92	0.10	EM	EXTREME			
2/18/2015	1,642.00	0.48	276.22	1,641.88	-6.77	5.84	-14.71	0.37	EM	EXTREME			
2/18/2015	1,737.00	0.62	274.29	1,736.87	-6.91	5.92	-15.62	0.15	EM	EXTREME			
2/18/2015	1,832.00	0.62	273.89	1,831.87	-7.05	5.99	-16.65	0.00	EM	EXTREME			
2/18/2015	1,927.00	0.40	306.02	1,926.86	-7.33	6.22	-17.43	0.37	EM	EXTREME			
2/18/2015	2,022.00	0.48	303.29	2,021.86	-7.78	6.64	-18.03	0.09	EM	EXTREME			
2/18/2015	2,117.00	0.79	270.12	2,116.86	-8.06	6.86	-19.02	0.49	EM	EXTREME			
2/18/2015	2,212.00	0.70	250.82	2,211.85	-7.95	6.67	-20.22	0.28	EM	EXTREME			
2/18/2015	2,308.00	0.48	273.19	2,307.84	-7.84	6.50	-21.17	0.33	EM	EXTREME			
2/18/2015	2,402.00	0.88	247.79	2,401.84	-7.66	6.25	-22.24	0.52	EM	EXTREME			
2/18/2015	2,498.00	0.88	242.69	2,497.83	-7.13	5.63	-23.57	0.08	EM	EXTREME			
2/18/2015	2,593.00	0.88	252.00	2,592.81	-6.65	5.07	-24.91	0.15	EM	EXTREME			
2/18/2015	2,687.00	0.62	248.80	2,686.81	-6.32	4.66	-26.08	0.28	EM	EXTREME			
2/18/2015	2,785.00	0.70	260.93	2,784.80	-6.11	4.38	-27.16	0.16	EM	EXTREME			
2/18/2015	2,975.00	0.79	237.82	2,974.78	-5.37	3.50	-29.42	0.16	EM	EXTREME			
2/18/2015	3,069.00	0.70	254.51	3,068.78	-4.94	3.00	-30.52	0.25	EM	EXTREME			
2/18/2015	3,164.00	0.70	205.52	3,163.77	-4.32	2.32	-31.33	0.61	EM	EXTREME			
2/18/2015	3,259.00	0.79	221.73	3,258.76	-3.35	1.31	-32.01	0.24	EM	EXTREME			
2/18/2015	3,354.00	0.62	201.60	3,353.75	-2.43	0.34	-32.64	0.31	EM	EXTREME			
2/18/2015	3,449.00	0.48	202.92	3,448.75	-1.61	-0.50	-32.98	0.15	EM	EXTREME			
2/18/2015	3,544.00	1.10	147.99	3,543.74	-0.45	-1.64	-32.65	0.96	EM	EXTREME			
2/18/2015	3,639.00	1.80	137.31	3,638.71	1.51	-3.51	-31.16	0.79	EM	EXTREME			
2/19/2015	3,733.00	1.89	140.83	3,732.66	3.92	-5.80	-29.18	0.15	EM	EXTREME			
2/19/2015	3,854.00	2.11	137.62	3,853.59	7.29	-8.99	-26.42	0.20	EM	EXTREME			
2/19/2015	3,922.00	2.81	133.40	3,921.53	9.48	-11.06	-24.36	1.06	EM	EXTREME			
2/19/2015	4,016.00	2.99	130.81	4,015.41	12.89	-14.25	-20.83	0.24	EM	EXTREME			
2/19/2015	4,111.00	3.30	133.09	4,110.26	16.61	-17.74	-16.96	0.35	EM	EXTREME			
2/19/2015	4,185.00	3.21	131.73	4,184.14	19.64	-20.57	-13.86	0.16	EM	EXTREME			
2/21/2015	4,299.00	3.60	141.53	4,297.94	24.85	-25.50	-9.25	0.61	EM	EXTREME			
2/21/2015	4,394.00	3.12	148.91	4,392.78	29.60	-30.05	-6.06	0.68	EM	EXTREME			
2/21/2015	4,488.00	2.99	147.60	4,486.65	34.02	-34.31	-3.42	0.16	EM	EXTREME			
2/21/2015	4,583.00	2.90	150.63	4,581.52	38.36	-38.49	-0.92	0.19	EM	EXTREME			
2/21/2015	4,677.00	2.90	150.72	4,675.40	42.64	-42.64	1.41	0.00	EM	EXTREME			
2/21/2015	4,770.00	2.90	150.41	4,768.28	46.88	-46.74	3.72	0.02	EM	EXTREME			
2/21/2015	4,882.00	2.90	148.61	4,880.14	51.94	-51.62	6.60	0.08	EM	EXTREME			
2/21/2015	4,977.00	2.90	152.69	4,975.02	56.26	-55.81	8.95	0.22	EM	EXTREME			
2/21/2015	5,071.00	2.90	152.91	5,068.90	60.62	-60.04	11.13	0.01	EM	EXTREME			
2/21/2015	5,166.00	2.99	155.99	5,163.77	65.15	-64.44	13.23	0.19	EM	EXTREME			
2/21/2015	5,261.00	2.81	158.49	5,258.65	69.69	-68.87	15.09	0.23	EM	EXTREME			
2/21/2015	5,356.00	2.68	159.42	5,353.54	74.03	-73.11	16.72	0.14	EM	EXTREME			
2/21/2015	5,451.00	2.68	159.72	5,448.44	78.29	-77.28	18.28	0.01	EM	EXTREME			
2/21/2015	5,538.00	2.59	161.70	5,535.34	82.14	-81.05	19.60	0.15	EM	EXTREME			
2/21/2015	5,640.00	2.59	159.90	5,637.24	86.58	-85.40	21.11	0.08	EM	EXTREME			
2/21/2015	5,735.00	2.68	163.81	5,732.14	90.81	-89.55	22.47	0.21	EM	EXTREME			
2/21/2015	5,829.00	2.68	164.91	5,826.04	95.11	-93.78	23.65	0.05	EM	EXTREME			
2/21/2015	5,923.00	2.59	168.51	5,919.94	99.36	-97.99	24.65	0.20	EM	EXTREME			
2/21/2015	6,018.00	2.50	168.91	6,014.84	103.54	-102.12	25.48	0.10	EM	EXTREME			
2/21/2015	6,113.00	2.42	170.01	6,109.76	107.59	-106.13	26.22	0.10	EM	EXTREME			
2/21/2015	6,208.00	2.42	171.50	6,204.67	111.58	-110.09	26.87	0.07	EM	EXTREME			
2/22/2015	6,397.00	2.42	174.09	6,393.50	119.55	-118.01	27.87	0.06	EM	EXTREME			

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Survey Data													
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2/26/2015	11,685.00	89.20	175.50	10,131.11	2,054.48	-2,052.72	93.28	0.42	EM	LEAM DRILLING SYSTEMS			
2/26/2015	11,780.00	89.00	175.70	10,132.61	2,149.46	-2,147.43	100.57	0.30	EM	LEAM DRILLING SYSTEMS			
2/26/2015	11,875.00	86.80	176.20	10,136.09	2,244.39	-2,242.12	107.27	2.37	EM	LEAM DRILLING SYSTEMS			
2/26/2015	11,970.00	86.50	176.70	10,141.64	2,339.22	-2,336.77	113.14	0.61	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,064.00	86.40	175.90	10,147.46	2,433.04	-2,430.40	119.20	0.86	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,160.00	87.20	175.10	10,152.82	2,528.88	-2,525.95	126.72	1.18	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,255.00	90.60	174.40	10,154.64	2,623.81	-2,620.52	135.41	3.65	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,349.00	91.00	175.00	10,153.33	2,717.77	-2,714.11	144.09	0.77	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,444.00	90.60	174.60	10,152.00	2,812.72	-2,808.71	152.70	0.60	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,539.00	90.00	175.00	10,151.51	2,907.69	-2,903.31	161.31	0.76	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,633.00	90.20	174.40	10,151.34	3,001.65	-2,996.91	169.99	0.67	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,727.00	89.70	175.10	10,151.42	3,095.61	-3,090.52	178.59	0.92	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,822.00	89.80	175.90	10,151.84	3,190.60	-3,185.22	186.05	0.85	EM	LEAM DRILLING SYSTEMS			
2/26/2015	12,917.00	89.80	176.70	10,152.17	3,285.60	-3,280.02	192.18	0.84	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,011.00	90.00	178.10	10,152.33	3,379.58	-3,373.92	196.44	1.50	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,106.00	88.90	177.40	10,153.25	3,474.54	-3,468.84	200.17	1.37	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,201.00	89.50	176.40	10,154.57	3,569.53	-3,563.69	205.31	1.23	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,295.00	90.00	176.20	10,154.98	3,663.53	-3,657.50	211.37	0.57	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,390.00	89.30	175.10	10,155.56	3,758.52	-3,752.22	218.58	1.37	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,486.00	89.10	174.40	10,156.90	3,854.47	-3,847.81	227.36	0.76	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,581.00	89.30	174.10	10,158.23	3,949.40	-3,942.32	236.88	0.38	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,676.00	90.00	174.10	10,158.81	4,044.32	-4,036.81	246.64	0.74	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,771.00	91.20	174.40	10,157.82	4,139.25	-4,131.33	256.16	1.30	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,865.00	92.10	174.80	10,155.11	4,233.17	-4,224.87	265.00	1.05	EM	LEAM DRILLING SYSTEMS			
2/26/2015	13,959.00	91.60	173.90	10,152.07	4,327.06	-4,318.36	274.25	1.09	EM	LEAM DRILLING SYSTEMS			
2/26/2015	14,053.00	90.90	175.70	10,150.02	4,421.00	-4,411.95	282.77	2.05	EM	LEAM DRILLING SYSTEMS			
2/26/2015	14,147.00	90.00	175.90	10,149.28	4,515.00	-4,505.69	289.65	0.98	EM	LEAM DRILLING SYSTEMS			
2/26/2015	14,242.00	8											