

Results of Directional Survey

API number:	30-025-40293	DD
OGRID:		Operator: MACK ENERGY CORP
		Property: DASH FOR CASH # 3

surface	ULSTR:	L	05	T 18S	R 35E
				2175 FSL	1280 FWL

BH Loc	ULSTR:	K	05	T 18S	R 35E
6913 MD		6883.7	TVD	2253 FSL	1735 FWL

Top Perf/OH	ULSTR:	K	05	T 18S	R 35E
6077 MD		6048.1	TVD	2232 FSL	1721 FWL

Bot Perf/OH	ULSTR:	K	05	T 18S	R 35E
6153 MD		6072.7	TVD	2232 FSL	1722 FWL

	MD	N/S	E/W	VD
	6008	55.34	440.04	5979.08
TOP PERFS/OH	6077	56.91	441.35	6048.05
	6100	57.43	441.79	6071.04
	6100	57.43	441.79	6071.04
BOT PERFS/OH	6153	57.47	441.82	6072.67
	9195	59.63	443.69	6166.00

NEXT TO LAST	6862	76.40	454.30	6832.70
LAST READING	6913	77.80	454.87	6883.68
TD	6913	77.80	454.87	6883.68

Surface Location	2175 FS	1280 FW
Projected BHL	2253 FS	1735 FW
Location of		
Top Perfs/OH	2232 FS	1721 FW
Bottom Perfs/OH	2232 FS	1722 FW

SUMMARY of Subsurface Locations

Surface Location	L-05-18S-35E	2175 FS	1280 FW	Vert. Depth
Top Perfs/OH	K-05-18S-35E	2232 FS	1721 FW	6048.05
Bottom Perfs/OH	K-05-18S-35E	2232 FS	1722 FW	6072.67
Projected TD	K-05-18S-35E	2253 FS	1735 FW	6883.68

OCT 17 2013

Job Number: 13-0003
 Company: Mack Energy
 Lease/Well: Dash for Cash
 Location: State #3
 Rig Name: Silver Oak 6
 RKB: ☐
 G.L. or M.S.L.: ☐

State/Country: TX, USA
 Declination: ☐
 Grid: ☐
 File name: C:\DOCUME~1\13-0003.SVY
 Date/Time: 14-Jul-13 / 19:30
 Curve Name: Nexus MWD surveys

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 84.79
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

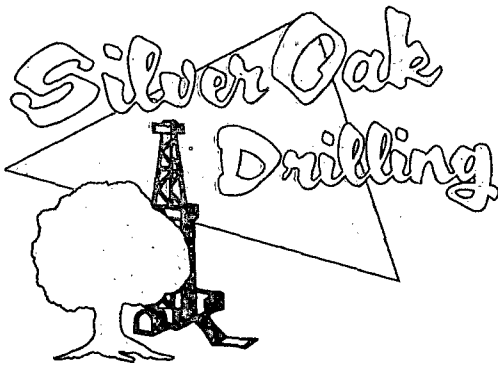
HOBS OCD
 OCT 04 2013
 RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Tie in provided by Teledrift										
1407.00	.70	235.87	1407.00	-1407.00	-6.30	-8.10	-8.64	10.26	232.13	.00
1641.00	.70	245.40	1640.98	-1640.98	-7.70	-10.58	-11.24	13.09	233.97	.05
1734.00	.30	157.50	1733.98	-1733.98	-8.16	-11.01	-11.70	13.70	233.45	.81
1828.00	3.20	102.50	1827.93	-1827.93	-8.95	-8.35	-9.13	12.24	223.00	3.23
1921.00	8.10	90.30	1920.45	-1920.45	-9.55	.74	-.13	9.58	175.56	5.40
2077.00	9.30	83.00	2074.66	-2074.66	-8.07	24.24	23.41	25.55	108.41	1.04
2170.00	8.60	81.80	2166.52	-2166.52	-6.16	38.59	37.87	39.07	99.08	.78
2263.00	7.60	86.70	2258.60	-2258.60	-4.82	51.61	50.96	51.83	95.33	1.31
2357.00	8.00	84.80	2351.73	-2351.73	-3.87	64.33	63.71	64.44	93.44	.51
2451.00	8.60	83.10	2444.74	-2444.74	-2.43	77.82	77.28	77.86	91.79	.69
2544.00	7.80	88.80	2536.79	-2536.79	-1.46	91.03	90.52	91.04	90.92	1.23

OCT 17 2013

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
								Distance FT	Direction Deg	
2637.00	7.70	90.90	2628.94	-2628.94	-1.43	103.57	103.01	103.58	90.79	.32
2731.00	8.10	80.90	2722.06	-2722.06	-.48	116.41	115.88	116.41	90.24	1.52
2824.00	6.90	81.90	2814.26	-2814.26	1.34	128.41	128.00	128.42	89.40	1.30
2918.00	6.50	78.40	2907.62	-2907.62	3.21	139.21	138.93	139.25	88.68	.61
3011.00	6.30	83.40	3000.04	-3000.04	4.85	149.44	149.26	149.51	88.14	.64
3105.00	7.00	83.60	3093.40	-3093.40	6.09	160.25	160.14	160.37	87.83	.75
3205.00	6.00	76.10	3192.76	-3192.76	8.02	171.38	171.40	171.57	87.32	1.31
3298.00	7.90	77.80	3285.07	-3285.07	10.54	182.35	182.55	182.65	86.69	2.05
3392.00	9.20	81.90	3378.03	-3378.03	12.96	196.10	196.47	196.53	86.22	1.53
3485.00	8.10	76.70	3469.97	-3469.97	15.52	209.84	210.38	210.41	85.77	1.45
3578.00	8.60	77.70	3561.98	-3561.98	18.51	223.01	223.77	223.77	85.26	.56
3672.00	8.40	81.40	3654.95	-3654.95	21.03	236.66	237.60	237.60	84.92	.62
3765.00	7.60	81.20	3747.05	-3747.05	22.99	249.46	250.51	250.52	84.74	.86
3859.00	7.90	87.00	3840.19	-3840.19	24.28	262.05	263.17	263.17	84.71	.89
3952.00	6.30	80.80	3932.48	-3932.48	25.43	273.47	274.65	274.65	84.69	1.91
4046.00	7.60	86.80	4025.78	-4025.78	26.60	284.77	286.01	286.01	84.66	1.58
4139.00	7.60	80.90	4117.97	-4117.97	27.91	296.98	298.29	298.29	84.63	.84
4233.00	6.90	75.30	4211.22	-4211.22	30.33	308.58	310.06	310.07	84.39	1.06
4326.00	8.00	83.20	4303.43	-4303.43	32.51	320.41	322.04	322.06	84.21	1.61
4420.00	7.60	77.20	4396.56	-4396.56	34.67	332.97	334.74	334.77	84.06	.96
4513.00	8.60	81.30	4488.64	-4488.64	37.08	345.84	347.78	347.82	83.88	1.24
4606.00	8.50	78.10	4580.60	-4580.60	39.55	359.44	361.55	361.61	83.72	.52
4700.00	7.70	85.60	4673.67	-4673.67	41.46	372.52	374.74	374.82	83.65	1.41
4793.00	7.50	81.80	4765.85	-4765.85	42.81	384.74	387.03	387.11	83.65	.58
4886.00	5.90	78.00	4858.21	-4858.21	44.67	395.42	397.84	397.94	83.56	1.78
4980.00	4.10	82.30	4951.85	-4951.85	46.12	403.48	406.00	406.10	83.48	1.95
5073.00	2.50	87.20	5044.70	-5044.70	46.67	408.80	411.35	411.45	83.49	1.75
5167.00	2.40	82.50	5138.61	-5138.61	47.02	412.80	415.36	415.47	83.50	.24
5260.00	2.60	83.40	5231.52	-5231.52	47.52	416.82	419.42	419.52	83.50	.22
5354.00	3.10	78.90	5325.40	-5325.40	48.26	421.44	424.08	424.19	83.47	.58
5447.00	1.20	58.60	5418.34	-5418.34	49.25	424.73	427.45	427.58	83.39	2.17
5540.00	1.50	69.80	5511.31	-5511.31	50.17	426.71	429.50	429.65	83.29	.43
5634.00	1.80	78.90	5605.27	-5605.27	50.88	429.31	432.16	432.32	83.24	.42
5728.00	1.90	81.70	5699.22	-5699.22	51.39	432.30	435.18	435.35	83.22	.14

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
								Distance FT	Direction Deg	
5821.00	2.00	65.50	5792.17	-5792.17	52.29	435.30	438.25	438.43	83.15	.60
5914.00	1.70	60.00	5885.12	-5885.12	53.65	437.98	441.04	441.25	83.02	.37
6008.00	1.60	40.70	5979.08	-5979.08	55.34	440.04	443.25	443.51	82.83	.60
6100.00	1.80	39.30	6071.04	-6071.04	57.43	441.79	445.18	445.51	82.59	.22
6195.00	1.70	42.60	6166.00	-6166.00	59.63	443.69	447.27	447.68	82.35	.15
6288.00	1.80	36.70	6258.95	-6258.95	61.81	445.50	449.27	449.76	82.10	.22
6382.00	1.80	37.60	6352.91	-6352.91	64.17	447.28	451.26	451.86	81.84	.03
6475.00	1.80	31.50	6445.86	-6445.86	66.57	448.93	453.12	453.84	81.57	.21
6569.00	1.60	25.10	6539.82	-6539.82	69.02	450.26	454.67	455.52	81.29	.29
6661.00	1.60	35.30	6631.78	-6631.78	71.23	451.55	456.15	457.13	81.04	.31
6756.00	1.70	27.70	6726.75	-6726.75	73.56	452.97	457.78	458.90	80.78	.25
6862.00	1.70	22.30	6832.70	-6832.70	76.40	454.30	459.36	460.68	80.45	.15
SLPTB										
6913.00	1.70	22.30	6883.68	-6883.68	77.80	454.87	460.06	461.48	80.29	.00



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

July 31, 2013

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: Dash For Cash State #3
2175' FSL & 1280' FWL
Sec. 5, T18S, R35E
Lea County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

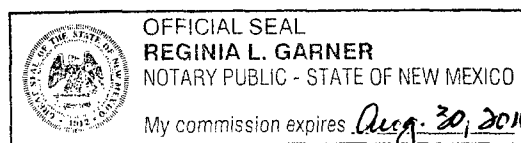
A handwritten signature in black ink, appearing to read "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 31st day of July, 2013.

A handwritten signature in black ink, appearing to read "Regina L. Garner".

Notary Public

DASH FOR CASH STATE # 3

Date	Depth	Deviation	Direction	TVD	Horiz
7/7/2013	137	0.10	214.00		
7/7/2013	368	0.70	211.00		
7/8/2013	696	0.40	224.00		
7/8/2013	844	0.40	276.00		
7/8/2013	1032	0.50	254.00		
7/8/2013	1219	0.50	237.00		
7/8/2013	1407	0.70	236.00		
7/10/2013	1641	0.70	245.40		
7/10/2013	1734	0.30	157.50		
7/10/2013	1828	3.20	102.50		
7/10/2013	1921	8.10	90.30		
7/10/2013	2077	9.30	83.00		
7/11/2013	2357	8.00	84.80		
7/11/2013	2451	8.60	83.10		
7/11/2013	2544	7.80	88.90		
7/11/2013	2638	7.70	90.90		
7/11/2013	2731	8.10	80.90		
7/11/2013	2824	6.90	81.90		
7/11/2013	2918	6.50	78.40		
7/11/2013	3012	6.30	83.40		
7/11/2013	3105	7.00	83.60		
7/11/2013	3205	6.00	76.10		
7/11/2013	3298	7.90	77.80		
7/11/2013	3392	9.20	81.90		
7/11/2013	3486	8.10	76.70		
7/11/2013	3578	8.60	77.70		
7/11/2013	3672	8.40	81.40		
7/12/2013	3766	7.60	81.20		
7/12/2013	3860	7.90	87.00		
7/12/2013	3953	6.30	80.30		
7/12/2013	4046	7.60	86.80		
7/12/2013	4233	6.90	75.30		
7/12/2013	4326	8.00	83.20	4303.00	1.61
7/12/2013	4420	7.60	77.20		
7/12/2013	4513	8.60	81.30	4488.00	1.24
7/12/2013	4606	8.50	78.10		
7/12/2013	4700	7.70	85.60	4673.00	1.41
7/12/2013	4793	7.50	81.80	74765.00	0.58
7/12/2013	4886	5.90	78.00	7859.00	1.78
7/12/2013	4980	4.10	82.30	4951.00	1.95
7/12/2013	5073	2.50	87.20		
7/13/2013	5540	1.50	69.80		0.43
7/13/2013	5633	1.80	78.90		0.42

Date	Depth	Deviation	Direction	TVD	Horiz
7/13/2013	5728	1.80	81.70		0.14
7/13/2013	5852	2.00	65.50		0.60
7/13/2013	5914	1.70	60.00		0.37
7/14/2013	6008	1.60	40.70		
7/14/2013	6101	1.80	39.30	6071.00	0.22
7/14/2013	6195	1.70	42.60	6166.00	0.15
7/14/2013	6288	1.80	36.70	6258.00	0.22
7/14/2013	6382	1.80	37.60	6352.91	0.03
7/14/2013	6475	1.40	34.00		
7/14/2013	6569	1.60	25.10		
7/14/2013	6662	1.20	35.30	6631.00	0.31
7/14/2013	6756	1.70	27.70		
7/14/2013	6862	1.70	22.30		