

Results of Directional Survey

DD

API number:	30-025-40292		
OGRID:		Operator:	MACK ENERGY CORP
		Property:	DASH FOR CASH # 2

surface	ULSTR:	M	05	T 18S	R 35E
				330 FSL	530 FWL

BH Loc	ULSTR:	M	05	T 18S	R 35E
7224	MD	7218.5	TVD	363 FSL	351 FWL

Top Perf/OH	ULSTR:	M	05	T 18S	R 35E
5773.5	MD	5768.2	TVD	361 FSL	359 FWL

Bot Perf/OH	ULSTR:	M	05	T 18S	R 35E
5888.5	MD	5883.2	TVD	362 FSL	701 FWL

	MD	N/S	E/W	VD
	5701	31.43	-171.47	5695.74
TOP PERFS/OH	5773.5	31.27	-171.20	5768.24
	5794	31.23	-171.12	5788.74
	5888	31.93	170.99	5882.73
BOT PERFS/OH	5888.5	31.94	170.99	5883.23
	5988	33.08	170.89	5982.73

NEXT TO LAST	7176	32.59	-177.63	7170.56
LAST READING	7224	33.22	-178.87	7218.54
TD	7224	33.22	-178.87	7218.54

Surface Location	330	FS	530	FW
Projected BHL	363	FS	351	FW
Location of				
Top Perfs/OH	361	FS	359	FW
Bottom Perfs/OH	362	FS	701	FW

SUMMARY of Subsurface Locations

Surface Location	M-05-18S-35E	330	FS	530	FW	Vert. Depth
Top Perfs/OH	M-05-18S-35E	361	FS	359	FW	5768.24
Bottom Perfs/OH	M-05-18S-35E	362	FS	701	FW	5883.23
Projected TD	M-05-18S-35E	363	FS	351	FW	7218.54

FEB 28 2012



A Schlumberger Company

DIRECTIONAL SURVEY REPORT

HOBBS OCD

FEB 22 2012

RECEIVED

MACK ENERGY

DASH FOR CASH STATE 2

LEA COUNTY, NEW MEXICO

SUR: M-5-18s-35e, 330/S & 530/W
BHL: M-5-18s-35e, 363/S & 351/W
API # 30-025-40292

PREPARED BY: STEVE BIBB

Pathfinder

6213 WCR 112
Midland, Texas 79706
Tel (432)687-1647
Fax (432)687-1544



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) SAUL CARRILLO
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11-06-11 TO 11-13-11
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MACK ENERGY
DASH FOR CASH STATE 2
LEA COUNTY, NM
RIG: SILVER OAK 7
9. SURVEY CERTIFIED FROM: 1648 TO 7176 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 181.93 FEET ON A BEARING OF 280.52 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 7224 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

A handwritten signature in black ink, appearing to read "Steve Bibb".

STEVE BIBB
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 11/06/2011
Date Completed: 11/13/2011

MACK ENERGY CORPORATION
DASH FOR CASH STATE #2
LEA COUNTY
Rig:SILVER OAK 7
PathFinder Office Supervisor: STEVE BIBB
PathFinder Field Engineers:S.CARRILLO

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.46.13.4704 N LON:103.29.10.2100 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 760400.8000 Y: 645027.6000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.07° EAST TO GRID
Vertical Section Plane: 277.96
Survey Vert. Reference: 17.00' Kelly Bushing To Ground
Altitude:3966.50' Ground To MSL

Measured Depth	7224.00	(feet)
Inclination	1.67	(deg)
Azimuth	296.90	(deg)
True Vertical Depth	7218.54	(feet)
Vertical Section	181.75	(feet)
Survey X cord	760221.93	(feet)
Survey Y cord	645060.82	(feet)
Survey Lat	32.77050368 N	(deg)
Survey Lon	103.48675045 W	(deg)
Rectangular Corr. N/S	33.22 N	(feet)
Rectangular Corr. E/W	178.87 W	(feet)
Closure Distance	181.93	(feet)
Direction of Closure	280.52	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION

DASH FOR CASH STATE #2

LEA COUNTY, NM

Rig:SILVER OAK 7

PathFinder Office Supervisor: STEVE BIBB

PathFinder Field Engineers: S.CARRILLO

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.46.13.4704 N LON:103.29.10.2100 W

GRID Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 760400.8000 Y: 645027.6000

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.07° EAST TO GRID

Vertical Section Plane: 277.96

Survey Vert. Reference: 17.00' Kelly Bushing To Ground

Altitude:3966.50' Ground To MSL

Survey Calculations by RX5 V6.03E using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE TELEDRIFT SURVEYS										
0.00	0.00	0.00	0.00	0.00	0.55	0.26 N	0.52 W	0.58@	296.48	0.00
115.00	0.30	117.60	115.00	115.00	0.27	0.12 N	0.25 W	0.28@	295.27	0.26
297.00	0.20	348.60	297.00	182.00	-0.08	0.21 N	0.11 E	0.24@	27.12	0.25
475.00	0.10	300.60	475.00	178.00	0.17	0.59 N	0.09 W	0.60@	351.59	0.09
652.00	0.30	67.60	652.00	177.00	-0.09	0.85 N	0.21 E	0.87@	13.76	0.21
829.00	0.10	227.60	829.00	177.00	-0.39	0.92 N	0.52 E	1.06@	29.55	0.22
1010.00	0.02	296.60	1010.00	181.00	-0.26	0.83 N	0.38 E	0.91@	24.48	0.05
1198.00	0.40	196.60	1198.00	188.00	-0.13	0.21 N	0.16 E	0.27@	36.81	0.21
1327.00	0.70	253.60	1326.99	129.00	0.66	0.44 S	0.72 W	0.85@	238.74	0.46
**	TIE-IN TO TELEDRIFT SURVEYS @ 1555' MD									
1555.00	0.50	205.60	1554.98	228.00	2.23	1.73 S	2.49 W	3.03@	235.21	0.23
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
1648.00	0.26	321.54	1647.98	93.00	2.50	1.93 S	2.80 W	3.40@	235.38	0.71
1711.00	0.70	298.60	1710.98	63.00	2.97	1.63 S	3.22 W	3.61@	243.11	0.75
1773.00	1.14	273.55	1772.97	62.00	3.94	1.42 S	4.17 W	4.40@	251.26	0.94
1836.00	1.85	271.09	1835.95	63.00	5.57	1.36 S	5.81 W	5.97@	256.86	1.13
1898.00	2.37	284.63	1897.90	62.00	7.84	1.01 S	8.05 W	8.12@	262.82	1.16
1960.00	3.08	291.92	1959.83	62.00	10.73	0.07 S	10.84 W	10.84@	269.64	1.27
2023.00	3.25	286.83	2022.74	63.00	14.13	1.08 N	14.12 W	14.16@	274.38	0.52
2116.00	3.25	289.55	2115.59	93.00	19.32	2.73 N	19.13 W	19.32@	278.11	0.17
2303.00	3.69	296.67	2302.25	187.00	30.21	7.20 N	29.50 W	30.37@	283.72	0.33
2396.00	3.52	289.46	2395.06	93.00	35.85	9.49 N	34.87 W	36.14@	285.23	0.52
2490.00	3.52	296.93	2488.89	94.00	41.40	11.76 N	40.16 W	41.85@	286.33	0.49
2583.00	1.93	287.62	2581.78	93.00	45.65	13.53 N	44.20 W	46.22@	287.02	1.77
2676.00	2.90	258.70	2674.70	93.00	49.41	13.54 N	48.00 W	49.87@	285.76	1.64

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
DASH FOR CASH STATE #2
LEA COUNTY, NM
RIG:SILVER OAK 7

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2739.00	2.73	259.67	2737.62	63.00	52.34	12.96 N	51.04 W	52.66@	284.25	0.28
2832.00	2.11	263.62	2830.54	93.00	56.10	12.37 N	54.92 W	56.29@	282.70	0.69
2894.00	2.73	268.28	2892.48	62.00	58.66	12.20 N	57.53 W	58.81@	281.98	1.05
2987.00	3.61	264.77	2985.34	93.00	63.70	11.87 N	62.66 W	63.77@	280.73	0.97
3080.00	3.52	262.22	3078.16	93.00	69.30	11.22 N	68.40 W	69.31@	279.31	0.20
3174.00	3.25	269.34	3172.00	94.00	74.71	10.80 N	73.92 W	74.71@	278.31	0.53
3267.00	3.17	263.18	3264.85	93.00	79.80	10.46 N	79.11 W	79.80@	277.53	0.38
3361.00	3.87	282.97	3358.68	94.00	85.47	10.86 N	84.79 W	85.48@	277.30	1.48
3454.00	3.52	282.59	3451.48	93.00	91.45	12.19 N	90.63 W	91.45@	277.66	0.38
3640.00	3.43	281.83	3637.14	186.00	102.69	14.58 N	101.65 W	102.69@	278.16	0.05
3827.00	3.25	283.43	3823.82	187.00	113.55	16.95 N	112.28 W	113.55@	278.59	0.11
4014.00	3.08	275.32	4010.54	187.00	123.84	18.65 N	122.44 W	123.85@	278.66	0.26
4107.00	4.22	276.47	4103.35	93.00	129.76	19.27 N	128.33 W	129.76@	278.54	1.23
4200.00	4.40	276.94	4196.09	93.00	136.75	20.08 N	135.27 W	136.75@	278.45	0.20
4293.00	4.22	280.91	4288.82	93.00	143.73	21.16 N	142.17 W	143.73@	278.47	0.37
4387.00	4.04	282.59	4382.58	94.00	150.48	22.54 N	148.80 W	150.49@	278.61	0.23
4574.00	3.87	283.64	4569.13	187.00	163.33	25.46 N	161.36 W	163.35@	278.97	0.10
4667.00	2.81	280.33	4661.97	93.00	168.73	26.61 N	166.65 W	168.76@	279.07	1.16
4761.00	2.81	284.51	4755.86	94.00	173.32	27.60 N	171.15 W	173.36@	279.16	0.22
4854.00	1.58	276.48	4848.79	93.00	176.87	28.32 N	174.63 W	176.91@	279.21	1.36
4947.00	0.09	310.34	4941.78	93.00	178.21	28.51 N	175.96 W	178.25@	279.20	1.62
5041.00	0.09	352.48	5035.78	94.00	178.29	28.63 N	176.02 W	178.34@	279.24	0.07
5227.00	0.26	129.24	5221.78	186.00	177.97	28.51 N	175.72 W	178.01@	279.22	0.18
5414.00	0.53	43.29	5408.77	187.00	177.11	28.87 N	174.80 W	177.16@	279.38	0.31
5608.00	1.32	47.47	5602.75	194.00	175.17	31.03 N	172.53 W	175.30@	280.20	0.41
5701.00	0.53	139.93	5695.74	93.00	174.17	31.43 N	171.47 W	174.32@	280.39	1.55
5794.00	0.18	28.44	5788.74	93.00	173.80	31.23 N	171.12 W	173.95@	280.34	0.67
5888.00	0.70	5.72	5882.73	94.00	173.77	31.93 N	170.99 W	173.95@	280.58	0.57

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
DASH FOR CASH STATE #2
LEA COUNTY, NM
RIG:SILVER OAK 7

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
5988.00	0.62	4.26	5982.73	100.00	173.83	33.08 N	170.89 W	174.06@	280.95	0.08
6081.00	0.70	336.48	6075.72	93.00	174.15	34.10 N	171.08 W	174.45@	281.27	0.35
6143.00	0.62	341.93	6137.72	62.00	174.50	34.77 N	171.34 W	174.83@	281.47	0.16
6235.00	0.97	0.30	6229.71	92.00	174.82	36.02 N	171.49 W	175.23@	281.86	0.47
6330.00	1.32	354.33	6324.69	95.00	175.19	37.91 N	171.59 W	175.73@	282.46	0.39
6392.00	0.44	312.49	6386.68	62.00	175.55	38.78 N	171.84 W	176.16@	282.72	1.67
6455.00	0.62	190.12	6449.68	63.00	175.76	38.61 N	172.07 W	176.35@	282.65	1.48
6548.00	0.53	29.96	6542.68	93.00	175.62	38.49 N	171.95 W	176.20@	282.62	1.22
6610.00	0.70	118.76	6604.68	62.00	175.16	38.55 N	171.47 W	175.75@	282.67	1.40
6673.00	1.32	199.85	6667.67	63.00	174.95	37.69 N	171.38 W	175.48@	282.40	2.21
6735.00	1.23	220.74	6729.65	62.00	175.46	36.51 N	172.06 W	175.89@	281.98	0.76
6828.00	1.85	209.84	6822.62	93.00	176.56	34.45 N	173.46 W	176.85@	281.23	0.74
6921.00	0.70	201.23	6915.60	93.00	177.25	32.62 N	174.41 W	177.43@	280.59	1.25
7014.00	0.53	248.79	7008.59	93.00	177.75	31.93 N	175.02 W	177.91@	280.34	0.56
7108.00	0.97	285.50	7102.58	94.00	178.92	31.99 N	176.19 W	179.07@	280.29	0.67
7176.00	1.67	296.90	7170.56	68.00	180.43	32.59 N	177.63 W	180.59@	280.40	1.09
STRAIGHT LINE PROJECTION TO BIT @ 7224' MD										
7224.00	1.67	296.90	7218.54	48.00	181.75	33.22 N	178.87 W	181.93@	280.52	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	Mack Energy		
LEASE / WELL No.:	Dash For Cash State	2	
WELL LOCATION:	Lea County		
COUNTY / STATE / COUNTRY:	Lea	NM	USA
RIG:	SilverOak #7		
API WELL No:	30-025-40292		
JOB No:	700004182-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	Pathfinder		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.08	LWD Calculated:	7.07
		Agreed Upon:	7.07
X =	760400.800000	Feet	Y = 645027.600000
			Feet
SITE LATITUDE:	32.770408 N	SITE LONGITUDE:	103.486169 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	227.96		
KELLY BUSHING ELEVATION:	17		
ALTITUDE	3983	Feet	WATER DEPTH: N/A
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	1555		
DRIFT ANGLE:	0.5		
DRIFT DIRECTION:	205.6		
TRUE VERTICAL DEPTH:	1554.98		
VERTICAL SECTION:	2.23		
RECTANGULAR COORDINATE (N / S) :	-1.73		
RECTANGULAR COORDINATE (E / W) :	-2.49		
CLOSURE DISTANCE / DIRECTION:	3.03	235.22	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	Teledrift		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	1700	TOTAL DEPTH:	7200
KICKOFF ANGLE:	2	MAX ANGLE:	3.23

PES Engineers: Saul Carrillo

**Signature of both field engineers required if applicable

Directional Driller: Monnie Prater

DATE: 5-Nov-2011



SURVEY REPORT

Page 1 of 1

PROSHOT MWD BY TELEDRIIFT
P.O. BOX 94395
OKLAHOMA CITY, OK 73143-4395
TEL: 405-631-4882
FAX: 405-631-8344
WWW.TELEDRIIFT.COM

ProView Version 6.00
Report created using job file: Mack Energy-01NOV11
Report saved on 05 Nov 2011 19:49
Depth in feet

WELL NAME DFC State #2
NORTH CORRECTION 7.6°
JOB ID Mack Energy
COMPANY Mack Energy
CONTRACTOR Silver Oak #7
START DATE 01 NOV 11
API #
LOCATION DFC State #2

All azimuths are referenced to true north
and corrected with the north correction above.

SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION	AZIMUTH
Tie-in	0.0	01-Nov-11	16:15	00.0	0.0
0002	115.0	02-Nov-11	10:13	00.3	117.6
0004	297.0	02-Nov-11	13:33	00.2	348.6
0008	475.0	02-Nov-11	16:20	00.1	300.6
0012	652.0	02-Nov-11	19:23	00.3	67.6
0018	829.0	02-Nov-11	22:35	00.1	227.6
0024	1010.0	03-Nov-11	02:54	00.2	296.6
0029	1198.0	03-Nov-11	07:36	00.4	196.6
0034	1327.0	04-Nov-11	11:07	00.7	253.6
0037	1555.0	04-Nov-11	17:03	00.5	205.6

PathFinder Energy Services, Inc. Magnetic & Grid Calculations

Mack Energy Corporation
Dash For Cash State #2
Lea County, NM
Rig: Silver Oak 7

Mon Oct 31 09:45:26 2011

Coordinates

Latitude: 32.770408 N (32 deg. 46 min. 13.4704 sec.)
Longitude: 103.486169 W (-103 deg. 29 min. 10.2100 sec.)
Elevation: 3983.50 feet.
Calculation Date: Oct/31/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.6977 degrees
Total Magnetic Field: 0.48913 gauss
Magnetic Declination: 7.539404 degrees
Horizontal Intensity: 0.239390 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.539404 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 760400.8000 feet
Y: 645027.6000 feet
True to Grid: (convergence) -0.458572 degrees
Magnetic to Grid: 7.080832 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 7.080832 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

MACK ENERGY
DASH FOR CASH STATE #2
LEA COUNTY
Rig:SILVER OAK 7

Field
Calculation

Fri Nov 11 07:18:49 2011

Coordinates

Latitude: 32.770408 N (32 deg. 46 min. 13.4704 sec.)
Longitude: 103.486169 W (-103 deg. 29 min. 10.2100 sec.)
Elevation: 3983.00 feet.
Calculation Date: Nov/06/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.6973 degrees
Total Magnetic Field: 0.48912 gauss
Magnetic Declination: 7.537376 degrees
Horizontal Intensity: 0.239385 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.537376 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 760400.8000 feet
Y: 645027.6000 feet
True to Grid: (convergence) -0.458572 degrees
Magnetic to Grid: 7.078805 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.078805 Degr.

District I
1625 N. French Dr. Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II
811 E. First St., Artesia, NM 88210
Phone:(505) 746-1263 Fax:(505) 746-6720

District III
1600 Rio Brabco Rd., Artesia, NM 87410
Phone:(505) 334-6176 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr. Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-191
August 1, 2011
Permit: 137166

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address: MACK ENERGY CORP PO Box 960 Artesia, NM 88211		2. OGRID Number 13837
		3. API Number 30-025-40292
4. Property Code 38803	5. Property Name DASH FOR CASH	6. Well No 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N S Line	Feet From	E W Line	County
M	5	18S	35E	M	330	S	530	W	LEA

8. Pool Information

VACUUM BLINDBRY	61850
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable Route	12. Lease Type State	13. Ground Level Elevation 3966
14. Multiple N	15. Proposed Depth 6605	16. Formation Blinsbry	17. Contractor	18. Spud Date 9/15/2011
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/lr	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	1600	791	0
Prod	7.875	5.5	17	6605	1140	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 1600' run 8 5/8 casing and cement to surface. Drill a 7 7/8 hole to 6605' run 5 1/2 casing and cement to surface. Put well on production.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that the drilling pit will be constructed according to NMOC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Jerry Sherrill

Title: Production Clerk

Email Address: jerry.s@meo.com

Date: 9/12/2011

Phone: 505-748-1288

OIL CONSERVATION DIVISION

Approved By: Paul Kautz

Title: Geologist

Approved Date: 9/14/2011

Expiration Date: 9/14/2013

Conditions of Approval Attached



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

HOBBS OCD

FEB 22 2012

RECEIVED

November 19, 2011

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

RE: Dash For Cash State #2
330' FSL & 530' FEL
Sec. 5, T18S, R35E
Lea County, New Mexico

Dear Sir,

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

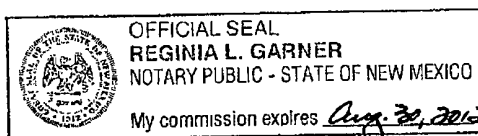
Very truly yours,

A handwritten signature in cursive script, appearing to read "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 19th day of November, 2011.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".
Notary Public

Pason DataHub Deviation Survey
Well Dossier 1320198111 - Dash for Cash State # 2

# Date	Depth	Deviation	Direction	TVD
11/2/2011	115	0.30	117.60	0.00
11/2/2011	297	0.20	348.60	0.00
11/2/2011	475	0.10	301.00	0.00
11/2/2011	652	0.30	67.60	0.00
11/2/2011	829	0.10	220.00	0.00
11/3/2011	1010	0.20	296.60	1075.00
11/3/2011	1198	0.40	196.60	0.00
11/4/2011	1385	0.70	253.60	0.00
11/4/2011	1555	0.50	205.60	0.00
11/6/2011	1648	0.26	322.00	1647.98
11/6/2011	1711	0.70	299.06	1710.98
11/6/2011	1773	1.14	274.01	1772.97
11/6/2011	1836	1.85	271.55	1835.95
11/6/2011	1898	2.37	285.09	1897.90
11/6/2011	1960	3.08	292.38	1999.83
11/7/2011	2116	3.25	290.01	2115.59
11/7/2011	2303	3.69	297.13	2302.24
11/7/2011	2396	3.52	289.92	2395.06
11/7/2011	2490	3.52	297.39	2488.08
11/7/2011	2583	1.93	288.08	2581.78
11/7/2011	2676	2.90	259.16	2674.70
11/7/2011	2739	2.73	260.13	2737.62
11/7/2011	2832	2.11	264.08	2830.54
11/7/2011	2894	2.73	268.74	2892.48
11/7/2011	2987	3.61	265.23	0.00
11/7/2011	3080	3.52	262.68	3078.16
11/7/2011	3174	3.25	269.80	3171.99
11/7/2011	3267	3.17	263.64	3264.85
11/7/2011	3361	3.87	283.43	3358.67
11/7/2011	3454	3.52	283.05	3451.48
11/8/2011	3640	3.43	282.29	363.14
11/8/2011	3827	3.25	283.89	3823.82
11/8/2011	4014	3.08	275.78	4010.54
11/8/2011	4107	4.22	276.93	4103.35
11/8/2011	4200	4.40	277.40	4196.08
11/8/2011	4293	4.22	281.37	4288.82
11/8/2011	4387	4.04	283.05	4382.58
11/8/2011	4574	3.87	284.10	4569.13
11/8/2011	4667	2.81	280.79	4661.97
11/8/2011	4761	2.81	284.97	4755.86
11/8/2011	4854	1.58	276.94	4848.79
11/9/2011	4947	0.09	310.80	4941.78
11/9/2011	4961	0.09	352.94	4955.78
11/9/2011	5227	0.26	129.70	5221.78
11/9/2011	5414	0.53	43.75	5408.77
11/9/2011	5608	1.32	47.93	5602.75
11/9/2011	5701	0.53	140.39	5695.74
11/9/2011	5794	0.18	28.90	5788.74
11/9/2011	5888	0.70	6.18	5882.73
11/10/2011	5988	0.62	4.72	5982.73

#	Date	Depth	Deviation	Direction	TVD
	11/10/2011	6081	0.70	336.94	6075.72
	11/11/2011	6143	0.62	341.93	6137.72
	11/11/2011	6235	0.97	0.30	6229.71
	11/11/2011	6330	1.32	354.33	6324.00
	11/11/2011	6392	0.44	312.49	6386.68
	11/12/2011	6455	0.62	190.12	6449.68
	11/12/2011	6548	0.53	29.96	6542.68
	11/12/2011	6610	0.70	118.76	6604.67
	11/12/2011	6735	1.23	220.74	6729.65
	11/12/2011	6828	1.85	209.84	6822.62
	11/12/2011	6921	0.70	201.23	6915.59
	11/12/2011	7014	0.53	248.79	7008.59
	11/13/2011	7108	0.97	285.50	7102.58
	11/13/2011	7176	1.67	296.90	7170.56
	11/16/2011	2023	3.75	287.29	2022.74
#	EOF				