

Results of Directional Survey

API number:	30-025-41521		
OGRID:		Operator:	ENERGEN RESOURCES CORPORATION
		Property:	COX 35 FEDERAL # 2H

surface	ULSTR:	O	35	T	23S	R	32E
				200	FSL	2240	FEL

BH Loc	ULSTR:	B	35	T	23S	R	32E
15461	MD	10927.4	TVD	197	FNL	2275	FEL
				5083	FSL		

Top Perf/OH	ULSTR:	O	35	T	23S	R	32E
11433	MD	10897.1	TVD	1056	FSL	2213	FEL

Bot Perf/OH	ULSTR:	B	35	T	23S	R	32E
15365	MD	10931.2	TVD	293	FNL	2275	FEL
				4987	FSL		

	MD	N/S	E/W	VD
	11408	830.93	26.83	10896.57
TOP PERFS/OH	11433	855.92	26.96	10897.12
	11504	926.90	27.33	10898.67
	15309	4730.73	-34.77	10932.83
BOT PERFS/OH	15365	4786.71	-34.91	10931.15
	15404	4825.69	-35.00	10929.98

NEXT TO LAST	15409	4830.68	-35.03	10929.76
LAST READING	15461	4882.63	-35.47	10927.41
TD	15461	4882.63	-35.47	10927.41

Surface Location	200	FS	2240	FE
Projected BHL	5083	FS	2275	FE
Location of				
Top Perfs/OH	1056	FS	2213	FE
Bottom Perfs/OH	4987	FS	2275	FE

SUMMARY of Subsurface Locations

Surface Location	O-35-23S-32E	200	FS	2240	FE	Vert. Depth
Top Perfs/OH	O-35-23S-32E	1056	FS	2213	FE	10897.12
Bottom Perfs/OH	B-35-23S-32E	4987	FS	2275	FE	10931.15
Projected TD	B-35-23S-32E	5083	FS	2275	FE	10927.41

JUN 26 2014



LEAM Drilling Systems, Inc. 2027A Airport Rd., Conroe, TX 77301

Survey Report

HOBBS OCD

MINIMUM CURVATURE CALCULATION

Operator: Energen
Well Name: Nabors 730
Location: Jal, New Mexico
Start Date: 1/2/2014
End Date: 1/6/2014
Direction: 359.60°

JUN 05 2014

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Survey Number	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	12840.00	89.60	359.10	10916.98	2262.10	-5.89	2262.09	0.89
1	12925.00	89.08	0.04	10917.96	2347.09	-6.53	2347.08	1.26
2	13020.00	89.87	359.86	10918.83	2442.09	-6.61	2442.07	0.85
3	13115.00	90.92	359.51	10918.17	2537.08	-7.13	2537.07	1.17
4	13210.00	90.22	359.69	10917.23	2632.07	-7.80	2632.06	0.76
5	13306.00	89.43	359.51	10917.52	2728.07	-8.47	2728.06	0.84
6	13401.00	90.3	358.6	10917.74	2823.05	-10.01	2823.06	1.31
7	13496.00	89.4	358.8	10917.95	2918.03	-12.13	2918.04	0.95
8	13592.00	88.9	358.8	10919.35	3014.00	-14.12	3014.02	0.55
9	13687.00	90.3	358.5	10920.01	3108.97	-16.39	3109.01	1.53
10	13783.00	89.3	359.2	10920.30	3204.94	-18.38	3204.99	1.25
11	13878.00	89.3	359.3	10921.40	3299.93	-19.63	3299.99	0.18
12	13973.00	89.25	359.69	10922.56	3394.92	-20.44	3394.98	0.39
13	14069.00	88.99	0.04	10924.04	3490.91	-20.67	3490.97	0.45
14	14164.00	89.78	359.86	10925.06	3585.90	-20.75	3585.96	0.85
15	14260.00	89.34	359.69	10925.80	3681.90	-21.13	3681.95	0.49
16	14356.00	88.81	359.51	10927.35	3777.88	-21.80	3777.94	0.58
17	14451.00	89.78	359.16	10928.51	3872.87	-22.90	3872.93	1.09
18	14546.00	89.08	358.81	10929.46	3967.85	-24.59	3967.92	0.82
19	14642.00	90.31	358.46	10929.97	4063.82	-26.87	4063.90	1.33
20	14737.00	89.08	359.51	10930.48	4158.80	-28.56	4158.89	1.70
21	14832.00	90.13	358.98	10931.13	4253.78	-29.81	4253.89	1.24
22	14928.00	89.78	359.33	10931.21	4349.77	-31.22	4349.89	0.52
23	15023.00	88.90	359.16	10932.30	4444.76	-32.47	4444.88	0.94
24	15118.00	90.04	358.98	10933.18	4539.74	-34.02	4539.87	1.21
25	15214.00	89.69	0.04	10933.41	4635.73	-34.84	4635.86	1.16
26	15309.00	91.01	0.04	10932.83	4730.73	-34.77	4730.86	1.39
27	15404.00	92.42	359.69	10929.98	4825.69	-35.00	4825.81	1.53
28	15409.00	92.59	359.51	10929.76	4830.68	-35.03	4830.81	4.95
PTB	15461.00	92.59	359.51	10927.41	4882.63	-35.47	4882.75	0.00
30								
31								



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LABORATORIES

ENERGEN RESOURCES
COX 35 FEDERAL # 0002 H
LEA COUNTY, NEW MEXICO

ROTARY SIDEWALL CORE ANALYSIS

A.P.I. NUMBER : 30-025-41521
FIELD : 2nd Bone Spring
LOCATION: 200' FSL, 2240' FEL,
Section 35, T-23-S, R-32-E

FILE NO. : MD-69314
DATE : February 7, 2014
ANALYSTS : WH, SB, JR

HOBBS OCD

JUN 05 2014

RECEIVED

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
1	4988.0	2.67	19.8	1.082	45.4	0.0	0	0	DI mf / cont Ss tn-gy-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd tr m/c
2	5004.0	2.65	25.0	34.356	34.6	13.4	424	90	Brt yl-wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd
3	5033.0	Shipped to WFT Labs in Houston for Analysis					20	10	Brt yl-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr hal
4	5080.0	2.65	23.3	13.328	53.7	0.0	6	0	DI mf / cont Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr hal
5	5141.0	2.66	22.3	1.011	60.0	0.0	17	0	DI mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr hal
6	5193.0	2.67	23.9	1.272	56.0	0.0	6	0	DI mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr m/c
7	7042.0	Shipped to WFT Labs in Houston for Analysis					27	10	DI yl Ss dk gy-gy-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd
8	7480.0	Shipped to WFT Labs in Houston for Analysis					549	90	Brt yl-dl yl Ss brn-gy-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd
9	7780.0	2.66	18.7	0.947	45.9	0.0	28	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd
10	7870.0	2.67	8.0	0.107	46.9	0.0	17	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc sc slty intrbd sc ls clas
11	7905.0	2.66	14.8	0.802	42.5	0.0	15	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd
12	8022.0	2.66	9.0	0.180	40.0	0.0	9	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc sc slty intrbd
13	8036.0	2.66	6.5	0.108	36.8	0.0	8	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc sc slty intrbd tr hal
14	8052.0	2.66	10.2	0.202	45.3	0.0	15	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc sc slty intrbd
15	8103.0	2.67	9.4	0.087	44.7	0.0	12	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd
16	8120.0	2.66	15.2	33.279	31.7	10.3	69	40	Brt yl-wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc sc slty intrbd sc hal
17	8182.0	Shipped to WFT Labs in Houston for Analysis					53	0	Mf Ss brn-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd
18	8185.0	2.68	7.8	0.047	49.4	0.0	24	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd lam
19	8199.0	2.66	12.3	0.623	43.7	0.0	8	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc sc slty intrbd tr hal
20	8232.0	Shipped to WFT Labs in Houston for Analysis					19	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd



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LABORATORIES

ENERGEN RESOURCES
COX 35 FEDERAL # 0002 H
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-41521
FIELD : 2nd Bone Spring
LOCATION: 200' FSL, 2240' FEL,
Section 35, T-23-S, R-32-E

FILE NO. : MD-69314
DATE : February 7, 2014
ANALYSTS : WH, SB, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
21	8243.0	2.67	9.6	0.190	43.6	0.0	9	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc sc slty intrbd
22	8310.0	2.66	5.1	0.049	43.2	0.0	4	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc tr slty intrbd tr m/c
23	8336.0	2.67	6.3	0.108	48.5	0.0	13	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc tr slty intrbd tr m/c
24	8382.0	2.67	8.6	0.068	48.9	0.0	4	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr m/c
25	8389.0	2.67	15.3	0.237	49.5	0.0	6	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc tr slty intrbd tr m/c
26	8409.0	2.67	10.6	0.290	44.2	0.0	5	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr m/c
27	8479.0	2.66	10.9	0.483	40.0	0.0	20	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc tr slty intrbd tr m/c
28	8487.0	Shipped to WFT Labs in Houston for Analysis					26	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd
29	8498.0	2.66	10.6	0.657	38.2	0.0	4	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc tr slty intrbd tr m/c
30	8504.0	2.66	8.6	0.263	31.9	7.4	21	20	Brk yl-wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc tr slty intrbd tr m/c
31	8579.0	2.66	8.5	0.228	19.9	13.9	315	80	Brk yl-wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr calc incl
32	8603.0	2.66	7.2	0.221	38.6	0.0	25	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd mcalc tr slty intrbd tr m/c
33	8611.0	Shipped to WFT Labs in Houston for Analysis					25	0	Mf Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd
34	8615.0	2.66	4.5	0.075	44.6	0.0	48	0	DI mf / cont Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc tr slty intrbd
35	8714.0	2.67	7.2	0.057	27.2	15.1	468	50	DI wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd vcalc tr slty intrbd tr hal
36	8722.0	2.67	1.4	tbfa	51.4	0.0	91	0	DI mf Ls dk gy-gy ssly sc slty intrbd
37	8829.0	2.51	2.7	<.001	47.1	*	895	40	DI brn Sh blk-dk gy-gy ssly sc slty intrbd tr pyr
38	9584.0	2.55	0.8	tbfa	33.5	*	118	70	DI brn Sh blk-dk gy-gy ssly sc slty intrbd tr pyr
39	9712.0	2.39	7.3	<.001	37.9	*	711	80	DI brn Sh blk-dk gy-gy ssly sc slty intrbd tr pyr

* = Not Measured



Weatherford

LABORATORIES

ENERGEN RESOURCES
COX 35 FEDERAL # 0002 H
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-41521
FIELD : 2nd Bone Spring
LOCATION: 200' FSL, 2240' FEL,
Section 35, T-23-S, R-32-E

FILE NO. : MD-69314
DATE : February 7, 2014
ANALYSTS : WH, SB, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
40	9968.0	2.67	14.7	1.250	23.9	11.7	284	60	Brk yl-wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd
41	9988.0	2.68	17.6	5.354	16.1	14.6	415	90	Brk yl-wht-bl Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd tr m/c
42	10115.0	Shipped to WFT Labs in Houston for Analysis					538	90	Yl-wht-bl Ss brn-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd
43	10141.0	2.65	9.6	0.106	22.4	18.5	420	90	Yl-wht-bl Ss brn-gy-opaq vf-fgr sbang-sbrnd scalc tr slty intrbd

HOBBS OCD

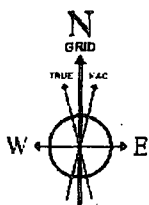
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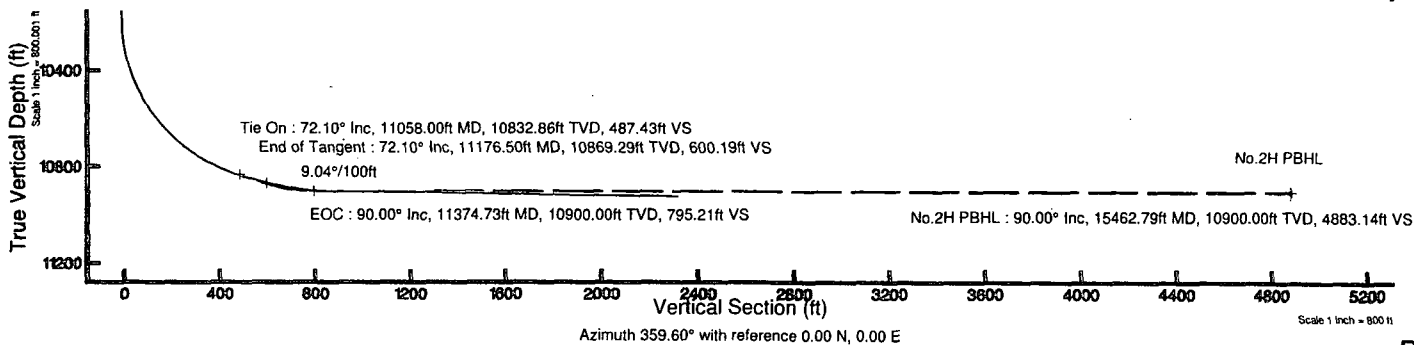
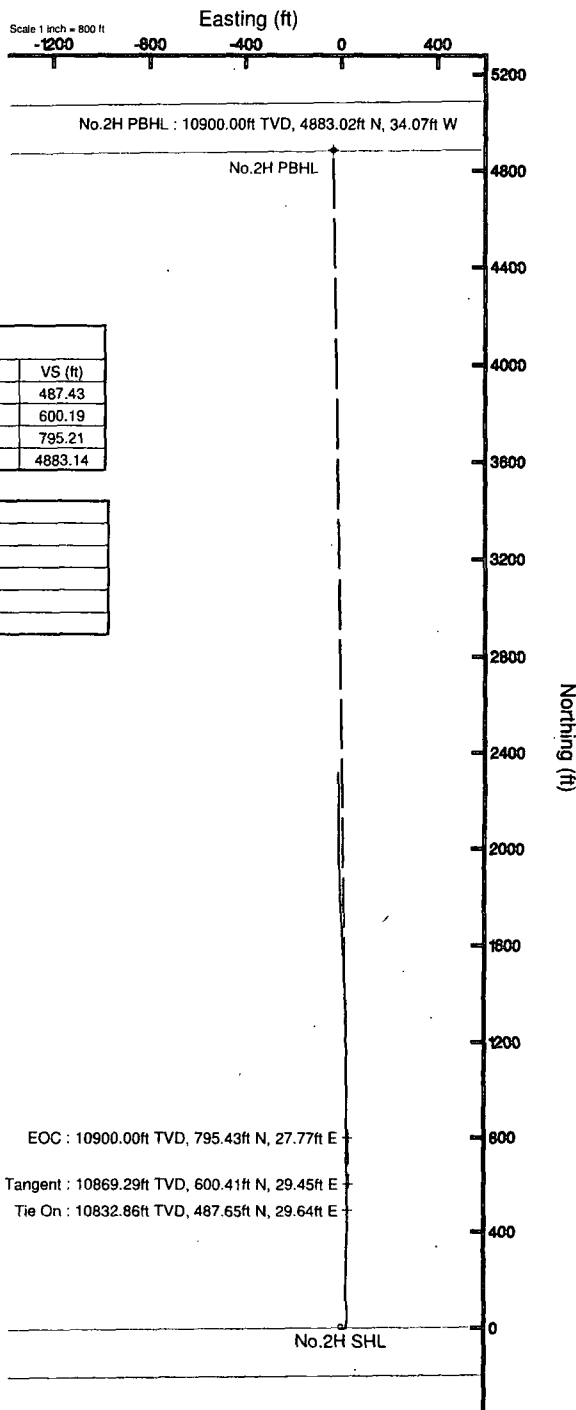
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	11058.00	72.100	359.900	10832.86	487.65	29.64	0.00	487.43
End of Tangent	11176.50	72.100	359.900	10869.29	600.41	29.45	0.00	600.19
EOC	11374.73	90.000	359.133	10900.00	795.43	27.77	9.04	795.21
No.2H PBHL	15462.79	90.000	359.133	10900.00	4883.02	-34.07	0.00	4883.14

Plot reference wellpath is Rev-F.0

True vertical depths are referenced to Rig on No.2H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.2H SHL (KB)	North Reference: Grid north
Rig on No.2H SHL (KB) to Mean Sea Level: 3651.4 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.2H SHL): -3629.4 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 1/27/2014



BGGM (1945.0 to 2015.0) Dip: 60.13° Field: 48357.5 nT
Magnetic North is 7.42 degrees East of True North (at 12/19/2013)
Grid North is 0.37 degrees East of True North
To correct azimuth from True to Grid subtract 0.37 degrees
To correct azimuth from Magnetic to Grid add 7.05 degrees





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REFERENCE WELLPATH IDENTIFICATION

Operator	Energen Resources	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Cox) Sec 35, T23S, R32E	Wellbore	No.2H AWB
Facility	Cox Federal 35 No.2H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999961	Report Generated	2/3/2014 at 9:07:58 AM
Convergence at slot	0.37° East	Database/Source file	MidlandDB/No.2H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	713214.49	456923.40	32°15'15.540"N	103°38'37.067"W
Facility Reference Pt			713214.49	456923.40	32°15'15.540"N	103°38'37.067"W
Field Reference Pt			713214.49	456923.40	32°15'15.540"N	103°38'37.067"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.2H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.2H SHL (KB) to Mean Sea Level	3651.40ft
Vertical Reference Pt	Rig on No.2H SHL (KB)	Rig on No.2H SHL (KB) to Mud Line at Slot (No.2H SHL)	22.00ft
MD Reference Pt	Rig on No.2H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.60°

Actual Wellpath Report

No.2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Energen Resources	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Cox) Sec 35, T23S, R32E	Wellbore	No.2H AWB
Facility	Cox Federal 35 No.2H		

WELLPATH DATA (108 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	213.150	0.00	0.00	0.00	0.00	713214.49	456923.40	32°15'15.540"N	103°38'37.067"W	0.00	
200.00	0.130	213.150	200.00	-0.19	-0.19	-0.12	713214.37	456923.21	32°15'15.538"N	103°38'37.068"W	0.07	
400.00	0.190	154.830	400.00	-0.68	-0.68	-0.11	713214.38	456922.72	32°15'15.533"N	103°38'37.068"W	0.08	
600.00	0.560	117.820	599.99	-1.44	-1.44	0.90	713215.39	456921.96	32°15'15.526"N	103°38'37.056"W	0.21	
800.00	0.740	109.920	799.98	-2.35	-2.33	2.98	713217.47	456921.07	32°15'15.517"N	103°38'37.032"W	0.10	
1000.00	0.710	98.220	999.97	-2.99	-2.95	5.42	713219.91	456920.45	32°15'15.510"N	103°38'37.004"W	0.08	
1200.00	0.590	81.890	1199.95	-3.03	-2.98	7.66	713222.15	456920.42	32°15'15.510"N	103°38'36.978"W	0.11	
1400.00	0.100	166.350	1399.95	-3.07	-3.01	8.72	713223.21	456920.39	32°15'15.510"N	103°38'36.965"W	0.29	
1600.00	0.220	354.810	1599.95	-2.85	-2.79	8.73	713223.22	456920.61	32°15'15.512"N	103°38'36.965"W	0.16	
1800.00	0.250	45.240	1799.95	-2.17	-2.10	9.01	713223.50	456921.30	32°15'15.519"N	103°38'36.962"W	0.10	
2000.00	0.180	142.580	1999.95	-2.11	-2.05	9.51	713224.00	456921.35	32°15'15.519"N	103°38'36.956"W	0.16	
2200.00	0.210	291.320	2199.95	-2.23	-2.16	9.36	713223.85	456921.24	32°15'15.518"N	103°38'36.958"W	0.19	
2400.00	0.210	0.410	2399.95	-1.73	-1.66	9.02	713223.51	456921.74	32°15'15.523"N	103°38'36.962"W	0.12	
2600.00	0.240	190.550	2599.94	-1.77	-1.71	8.94	713223.43	456921.69	32°15'15.522"N	103°38'36.963"W	0.22	
2800.00	0.210	63.080	2799.94	-2.02	-1.95	9.19	713223.68	456921.45	32°15'15.520"N	103°38'36.960"W	0.20	
3000.00	0.200	296.730	2999.94	-1.69	-1.63	9.21	713223.70	456921.77	32°15'15.523"N	103°38'36.960"W	0.18	
3200.00	0.290	229.660	3199.94	-1.86	-1.80	8.51	713223.00	456921.60	32°15'15.522"N	103°38'36.968"W	0.14	
3400.00	0.110	350.830	3399.94	-2.00	-1.94	8.09	713222.58	456921.46	32°15'15.520"N	103°38'36.973"W	0.18	
3600.00	0.250	272.300	3599.94	-1.79	-1.73	7.63	713222.12	456921.67	32°15'15.522"N	103°38'36.978"W	0.13	
3800.00	0.150	334.620	3799.94	-1.53	-1.48	7.08	713221.57	456921.92	32°15'15.525"N	103°38'36.984"W	0.11	
4000.00	0.200	233.080	3999.94	-1.50	-1.45	6.69	713221.18	456921.95	32°15'15.525"N	103°38'36.989"W	0.14	
4200.00	0.280	130.620	4199.94	-2.03	-1.98	6.78	713221.27	456921.42	32°15'15.520"N	103°38'36.988"W	0.19	
4400.00	0.390	110.600	4399.93	-2.59	-2.54	7.79	713222.28	456920.86	32°15'15.514"N	103°38'36.976"W	0.08	
4600.00	0.510	95.470	4599.93	-2.93	-2.86	9.31	713223.80	456920.54	32°15'15.511"N	103°38'36.958"W	0.08	
4800.00	0.620	140.630	4799.92	-3.86	-3.78	10.88	713225.37	456919.62	32°15'15.502"N	103°38'36.940"W	0.22	
5000.00	0.340	128.070	4999.91	-5.07	-4.98	12.04	713226.53	456918.42	32°15'15.490"N	103°38'36.927"W	0.15	
5200.00	0.170	81.000	5199.91	-5.39	-5.30	12.80	713227.29	456918.10	32°15'15.487"N	103°38'36.918"W	0.13	
5400.00	0.180	322.370	5399.91	-5.10	-5.01	12.90	713227.39	456918.39	32°15'15.490"N	103°38'36.917"W	0.15	
5600.00	0.560	252.650	5599.91	-5.13	-5.05	11.77	713226.26	456918.35	32°15'15.489"N	103°38'36.930"W	0.26	
5800.00	0.510	245.110	5799.90	-5.79	-5.72	10.03	713224.52	456917.68	32°15'15.483"N	103°38'36.950"W	0.04	
6000.00	0.200	235.590	5999.89	-6.35	-6.29	8.94	713223.43	456917.11	32°15'15.477"N	103°38'36.963"W	0.16	
6200.00	0.520	28.550	6199.89	-5.75	-5.69	9.08	713223.57	456917.71	32°15'15.483"N	103°38'36.961"W	0.35	
6400.00	0.260	69.070	6399.89	-4.80	-4.73	9.94	713224.43	456918.67	32°15'15.492"N	103°38'36.951"W	0.18	
6600.00	0.560	77.050	6599.88	-4.43	-4.35	11.32	713225.81	456919.05	32°15'15.496"N	103°38'36.935"W	0.15	
6800.00	0.260	57.840	6799.88	-3.98	-3.89	12.65	713227.14	456919.51	32°15'15.501"N	103°38'36.920"W	0.16	
7000.00	0.180	123.260	6999.87	-3.91	-3.82	13.30	713227.79	456919.58	32°15'15.501"N	103°38'36.912"W	0.12	
7200.00	0.110	205.670	7199.87	-4.26	-4.16	13.48	713227.97	456919.24	32°15'15.498"N	103°38'36.910"W	0.10	
7400.00	0.330	60.120	7399.87	-4.15	-4.05	13.90	713228.39	456919.35	32°15'15.499"N	103°38'36.905"W	0.21	
7600.00	0.260	59.540	7599.87	-3.64	-3.53	14.79	713229.28	456919.87	32°15'15.504"N	103°38'36.895"W	0.04	
7800.00	0.650	42.610	7799.86	-2.58	-2.47	15.95	713230.44	456920.93	32°15'15.514"N	103°38'36.881"W	0.20	
8000.00	0.590	54.730	7999.85	-1.16	-1.04	17.56	713232.05	456922.36	32°15'15.528"N	103°38'36.862"W	0.07	
8200.00	0.150	96.060	8199.85	-0.60	-0.47	18.66	713233.15	456922.93	32°15'15.534"N	103°38'36.849"W	0.24	
8400.00	0.220	143.930	8399.85	-0.94	-0.81	19.14	713233.63	456922.59	32°15'15.531"N	103°38'36.844"W	0.08	
8600.00	0.650	146.160	8599.84	-2.20	-2.06	20.00	713234.49	456921.34	32°15'15.518"N	103°38'36.834"W	0.22	
8800.00	0.340	137.720	8799.83	-3.59	-3.44	21.03	713235.52	456919.96	32°15'15.504"N	103°38'36.822"W	0.16	

REFERENCE WELLPATH IDENTIFICATION

Operator	Energen Resources	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Cox) Sec 35, T23S, R32E	Wellbore	No.2H AWP
Facility	Cox Federal 35 No.2H		

WELLPATH DATA (108 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9000.00	0.260	32.130	8999.83	-3.65	-3.50	21.67	713236.16	456919.90	32°15'15.504"N	103°38'36.815"W	0.24	
9200.00	0.360	73.320	9199.83	-3.09	-2.93	22.52	713237.00	456920.47	32°15'15.509"N	103°38'36.805"W	0.12	
9400.00	0.060	134.130	9399.83	-2.99	-2.83	23.19	713237.68	456920.57	32°15'15.510"N	103°38'36.797"W	0.17	
9600.00	0.370	74.000	9599.83	-2.89	-2.72	23.89	713238.38	456920.68	32°15'15.511"N	103°38'36.789"W	0.17	
9800.00	0.130	25.000	9799.82	-2.51	-2.34	24.61	713239.09	456921.06	32°15'15.515"N	103°38'36.780"W	0.15	
10000.00	0.740	151.710	9999.82	-3.45	-3.27	25.31	713239.80	456920.13	32°15'15.506"N	103°38'36.772"W	0.41	
10100.00	0.340	146.810	10099.81	-4.27	-4.09	25.78	713240.27	456919.31	32°15'15.498"N	103°38'36.767"W	0.40	
10169.00	0.800	215.400	10168.81	-4.83	-4.65	25.61	713240.10	456918.75	32°15'15.492"N	103°38'36.769"W	1.08	
10201.00	0.100	29.700	10200.81	-4.99	-4.81	25.50	713239.99	456918.59	32°15'15.491"N	103°38'36.770"W	2.81	
10232.00	2.900	356.500	10231.80	-4.18	-4.00	25.46	713239.95	456919.40	32°15'15.499"N	103°38'36.770"W	9.09	
10264.00	6.800	3.000	10263.68	-1.48	-1.30	25.51	713240.00	456922.10	32°15'15.525"N	103°38'36.770"W	12.29	
10296.00	10.700	6.700	10295.30	3.36	3.54	25.96	713240.45	456926.94	32°15'15.573"N	103°38'36.764"W	12.31	
10327.00	13.700	11.300	10325.59	9.81	10.00	27.02	713241.50	456933.40	32°15'15.637"N	103°38'36.751"W	10.17	
10359.00	15.600	7.900	10356.55	17.78	17.98	28.35	713242.84	456941.38	32°15'15.716"N	103°38'36.735"W	6.51	
10391.00	18.000	5.000	10387.19	26.96	27.17	29.37	713243.86	456950.57	32°15'15.807"N	103°38'36.723"W	7.94	
10423.00	20.300	0.900	10417.41	37.44	37.65	29.89	713244.38	456961.05	32°15'15.911"N	103°38'36.716"W	8.32	
10454.00	22.600	357.600	10446.27	48.77	48.98	29.73	713244.21	456972.38	32°15'16.023"N	103°38'36.717"W	8.38	
10486.00	25.400	356.900	10475.50	61.77	61.98	29.10	713243.59	456985.37	32°15'16.151"N	103°38'36.723"W	8.79	
10518.00	28.200	356.500	10504.06	76.18	76.38	28.26	713242.75	456999.78	32°15'16.294"N	103°38'36.732"W	8.77	
10550.00	31.300	356.100	10531.84	92.03	92.22	27.24	713241.73	457015.62	32°15'16.451"N	103°38'36.743"W	9.71	
10581.00	34.500	356.400	10557.86	108.84	109.02	26.14	713240.63	457032.42	32°15'16.617"N	103°38'36.754"W	10.34	
10613.00	37.800	357.800	10583.70	127.69	127.87	25.19	713239.68	457051.27	32°15'16.804"N	103°38'36.764"W	10.63	
10645.00	40.400	359.000	10608.53	147.87	148.04	24.63	713239.12	457071.44	32°15'17.003"N	103°38'36.769"W	8.46	
10677.00	42.300	0.600	10632.55	169.01	169.18	24.57	713239.05	457092.58	32°15'17.212"N	103°38'36.768"W	6.79	
10709.00	44.200	0.400	10655.86	190.93	191.11	24.76	713239.25	457114.50	32°15'17.429"N	103°38'36.764"W	5.95	
10741.00	47.100	0.700	10678.22	213.81	213.99	24.98	713239.47	457137.38	32°15'17.656"N	103°38'36.760"W	9.09	
10772.00	50.100	0.400	10698.72	237.05	237.23	25.20	713239.69	457160.63	32°15'17.886"N	103°38'36.756"W	9.70	
10804.00	52.400	0.700	10718.75	262.00	262.19	25.44	713239.93	457185.58	32°15'18.133"N	103°38'36.751"W	7.22	
10836.00	55.100	1.900	10737.67	287.80	287.98	26.03	713240.52	457211.37	32°15'18.388"N	103°38'36.742"W	8.96	
10868.00	58.400	2.300	10755.21	314.53	314.72	27.01	713241.50	457238.11	32°15'18.652"N	103°38'36.729"W	10.37	
10899.00	61.600	2.200	10770.71	341.34	341.55	28.07	713242.55	457264.93	32°15'18.918"N	103°38'36.714"W	10.33	
10931.00	63.800	1.100	10785.39	369.76	369.97	28.88	713243.37	457293.35	32°15'19.199"N	103°38'36.703"W	7.52	
10963.00	66.300	0.400	10798.89	398.76	398.98	29.26	713243.75	457322.36	32°15'19.486"N	103°38'36.696"W	8.06	
10995.00	68.000	0.300	10811.31	428.25	428.46	29.44	713243.93	457351.85	32°15'19.778"N	103°38'36.692"W	5.32	
11026.00	69.900	0.300	10822.45	457.18	457.39	29.59	713244.08	457380.77	32°15'20.064"N	103°38'36.688"W	6.13	
11058.00	72.100	359.900	10832.86	487.43	487.65	29.64	713244.13	457411.03	32°15'20.363"N	103°38'36.685"W	6.98	
11090.00	74.700	359.400	10842.00	518.09	518.31	29.46	713243.94	457441.69	32°15'20.667"N	103°38'36.685"W	8.26	
11122.00	76.600	359.300	10849.94	549.09	549.31	29.10	713243.59	457472.69	32°15'20.974"N	103°38'36.687"W	5.95	
11153.00	77.100	359.000	10856.99	579.28	579.49	28.66	713243.14	457502.87	32°15'21.272"N	103°38'36.690"W	1.87	
11185.00	77.600	359.200	10864.00	610.50	610.71	28.17	713242.65	457534.09	32°15'21.581"N	103°38'36.693"W	1.68	
11217.00	78.100	359.400	10870.73	641.78	641.99	27.78	713242.27	457565.37	32°15'21.891"N	103°38'36.695"W	1.68	
11249.00	78.700	359.600	10877.17	673.13	673.34	27.51	713242.00	457596.71	32°15'22.201"N	103°38'36.696"W	1.97	
11281.00	79.400	359.300	10883.24	704.55	704.75	27.21	713241.70	457628.12	32°15'22.512"N	103°38'36.697"W	2.37	
11313.00	81.700	359.600	10888.50	736.11	736.32	26.91	713241.39	457659.69	32°15'22.824"N	103°38'36.698"W	7.25	
11344.00	84.300	359.800	10892.28	766.88	767.08	26.74	713241.23	457690.45	32°15'23.129"N	103°38'36.698"W	8.41	

Actual Wellpath Report

No.2H AWP

Page 4 of 4

REFERENCE WELLPATH IDENTIFICATION

Operator	Energen Resources	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Cox) Sec 35, T23S, R32E	Wellbore	No.2H AWB
Facility	Cox Federal 35 No.2H		

WELLPATH DATA (108 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11376.00	86.100	0.100	10894.95	798.76	798.97	26.72	713241.21	457722.34	32°15'23.444"N	103°38'36.696"W	5.70	
11408.00	88.100	0.300	10896.57	830.72	830.93	26.83	713241.32	457754.29	32°15'23.760"N	103°38'36.692"W	6.28	
11504.00	89.400	0.300	10898.67	926.69	926.90	27.33	713241.82	457850.26	32°15'24.710"N	103°38'36.679"W	1.35	
11599.00	89.900	0.000	10899.25	1021.68	1021.90	27.58	713242.07	457945.25	32°15'25.650"N	103°38'36.669"W	0.61	
11695.00	90.400	359.100	10898.99	1117.68	1117.89	26.83	713241.31	458041.25	32°15'26.600"N	103°38'36.671"W	1.07	
11790.00	89.400	359.300	10899.16	1212.67	1212.88	25.50	713239.99	458136.23	32°15'27.540"N	103°38'36.679"W	1.07	
11885.00	88.800	358.900	10900.65	1307.66	1307.86	24.01	713238.50	458231.20	32°15'28.480"N	103°38'36.689"W	0.76	
11981.00	88.600	358.000	10902.83	1403.61	1403.80	21.41	713235.90	458327.14	32°15'29.429"N	103°38'36.712"W	0.96	
12077.00	88.700	357.700	10905.09	1499.54	1499.70	17.81	713232.30	458423.04	32°15'30.379"N	103°38'36.747"W	0.33	
12172.00	88.800	356.900	10907.17	1594.44	1594.57	13.34	713227.83	458517.91	32°15'31.318"N	103°38'36.792"W	0.85	
12267.00	88.800	357.600	10909.15	1689.34	1689.44	8.78	713223.27	458612.77	32°15'32.257"N	103°38'36.838"W	0.74	
12363.00	88.800	356.900	10911.17	1785.24	1785.31	4.17	713218.66	458708.64	32°15'33.206"N	103°38'36.885"W	0.73	
12458.00	88.700	357.700	10913.24	1880.14	1880.18	-0.30	713214.19	458803.50	32°15'34.145"N	103°38'36.930"W	0.85	
12553.00	89.800	358.700	10914.48	1975.10	1975.12	-3.28	713211.21	458898.44	32°15'35.084"N	103°38'36.957"W	1.56	
12649.00	89.500	359.600	10915.07	2071.09	2071.11	-4.71	713209.78	458994.43	32°15'36.034"N	103°38'36.967"W	0.99	
12744.00	89.300	359.900	10916.06	2166.09	2166.10	-5.12	713209.37	459089.42	32°15'36.974"N	103°38'36.964"W	0.38	
12840.00	89.600	359.100	10916.98	2262.08	2262.10	-5.96	713208.53	459185.40	32°15'37.924"N	103°38'36.967"W	0.89	
12895.00	89.600	359.100	10917.37	2317.08	2317.09	-6.82	713207.67	459240.39	32°15'38.468"N	103°38'36.973"W	0.00	Proj to Bit

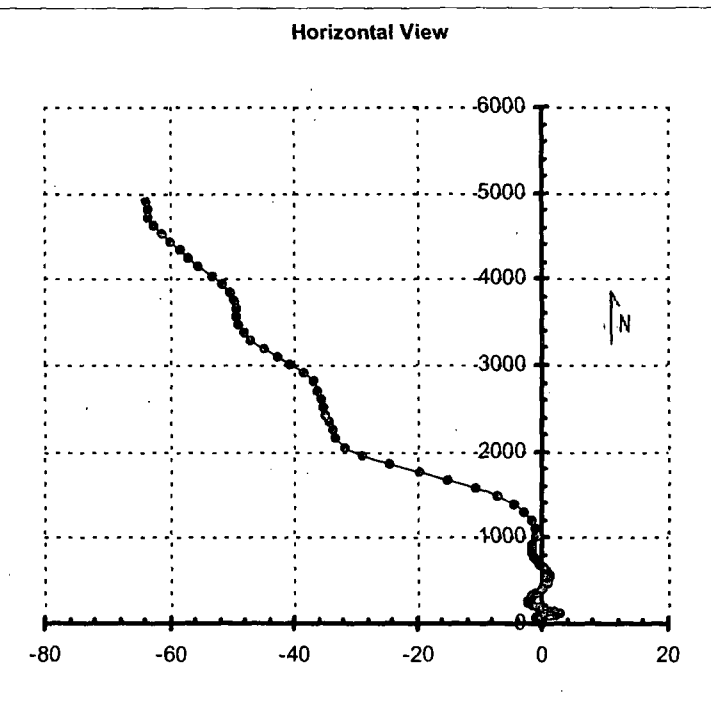
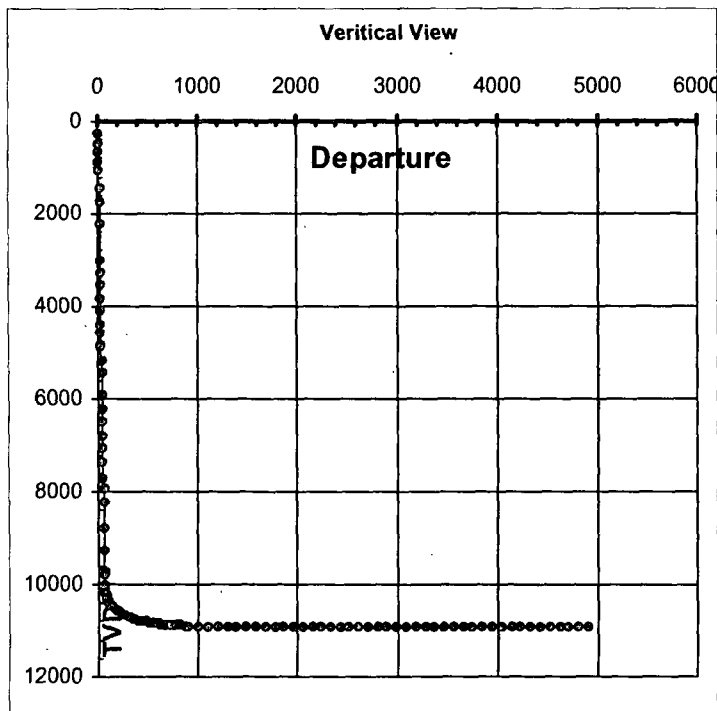
TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.2H PBHL		10900.00	4883.02	-34.07	713180.42	461806.22	32°16'03.861"N	103°38'37.098"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.2H AWB Ref Wellpath: No.2H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	10100.00	Generic gyro - northseeking (Standard)	MS Gyro <200-10100>	No.2H AWB
10100.00	12840.00	NaviTrak (Standard)	BHI MWD NaviTrak <10169-XXXX>	No.2H AWB
12840.00	12895.00	Blind Drilling (std)	Projection to bit	No.2H AWB

Well Name: COX 35 FEDERAL 2H					
Field Name:	WILDCAT	S/T/R:	35/23S/32E	County, State:	LEA, NM
Operator:	ergen Resources Corporat	Location Desc:	Sec 35, Blk 23S, Range 32E	District:	PB MID



Sur No	Date	Tie In	Meas-Dep	Inclination	Azimuth	Desired Az	TVD	Vert Sect	N/S(+/-)	E/W(+/-)	DLS
1	1/13/2014	☐	250	0.25	0.00	0.00	250.00	0.55	0.55	0.00	0.10
2	1/13/2014	☐	500	0.50	0.00	0.00	499.99	2.18	2.18	0.00	0.10
3	1/13/2014	☐	636	0.50	0.00	0.00	635.99	3.37	3.37	0.00	0.00
4	1/13/2014	☐	868	0.80	0.00	0.00	867.97	6.00	6.00	0.00	0.13
5	1/13/2014	☐	1056	0.60	0.00	0.00	1055.96	8.30	8.30	0.00	0.11
6	1/16/2014	☐	1431	0.20	0.00	0.00	1430.95	10.92	10.92	0.00	0.11
7	1/16/2014	☐	1718	0.20	0.00	0.00	1717.95	11.92	11.92	0.00	0.00
8	1/16/2014	☐	2218	0.20	0.00	0.00	2217.95	13.66	13.66	0.00	0.00
9	1/16/2014	☐	2981	0.30	0.00	0.00	2980.94	16.99	16.99	0.00	0.01
10	1/17/2014	☐	3246	0.30	0.00	0.00	3245.94	18.38	18.38	0.00	0.00
11	1/17/2014	☐	3533	0.30	0.00	0.00	3532.93	19.88	19.88	0.00	0.00
12	1/17/2014	☐	3820	0.30	0.00	0.00	3819.93	21.38	21.38	0.00	0.00
13	1/17/2014	☐	4106	0.50	0.00	0.00	4105.92	23.38	23.38	0.00	0.07
14	1/17/2014	☐	4393	0.50	0.00	0.00	4392.91	25.89	25.89	0.00	0.00
15	1/17/2014	☐	4583	0.60	0.00	0.00	4582.90	27.71	27.71	0.00	0.05
16	1/17/2014	☐	4813	0.20	0.00	0.00	4812.89	29.32	29.32	0.00	0.17
17	1/19/2014	☐	4856	0.50	0.00	0.00	4855.89	29.58	29.58	0.00	0.70
18	1/19/2014	☐	5153	0.30	0.00	0.00	5152.89	31.65	31.65	0.00	0.07
19	1/19/2014	☐	5439	0.40	0.00	0.00	5438.88	33.40	33.40	0.00	0.03
20	1/19/2014	☐	5916	0.60	0.00	0.00	5915.86	37.56	37.56	0.00	0.04
21	1/20/2014	☐	6202	0.60	0.00	0.00	6201.85	40.56	40.56	0.00	0.00
22	1/20/2014	☐	6488	0.30	0.00	0.00	6487.84	42.80	42.80	0.00	0.10
23	1/20/2014	☐	6774	0.50	0.00	0.00	6773.83	44.80	44.80	0.00	0.07
24	1/20/2014	☐	7061	0.40	0.00	0.00	7060.82	47.05	47.05	0.00	0.03



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25	1/20/2014	☐	7347	0.20	0.00	0.00	7346.82	48.55	48.55	0.00	0.07
26	1/21/2014	☐	7692	0.20	0.00	0.00	7691.82	49.75	49.75	0.00	0.00
27	1/21/2014	☐	7916	0.90	0.00	0.00	7915.81	51.90	51.90	0.00	0.31
28	1/21/2014	☐	8202	0.50	0.00	0.00	8201.79	55.40	55.40	0.00	0.14
29	1/22/2014	☐	8772	0.30	0.00	0.00	8771.77	59.38	59.38	0.00	0.04
30	1/23/2014	☐	9272	0.50	0.00	0.00	9271.76	62.87	62.87	0.00	0.04
31	1/23/2014	☐	9715	0.50	0.00	0.00	9714.74	66.73	66.73	0.00	0.00
32	1/24/2014	☐	9800	0.13	0.00	0.00	9799.74	67.20	67.20	0.00	0.44
33	1/24/2014	☐	10000	0.74	0.00	0.00	9999.74	68.72	68.72	0.00	0.31
34	1/24/2014	☐	10100	0.34	0.00	0.00	10099.73	69.66	69.66	0.00	0.40
35	1/25/2014	☐	10169	0.80	250.40	0.00	10168.73	69.71	69.71	-0.45	1.40
36	1/25/2014	☐	10232	2.90	356.50	0.00	10231.69	71.15	71.15	-0.97	5.10
37	1/25/2014	☐	10264	6.80	3.00	0.00	10263.58	73.85	73.85	-0.92	12.29
38	1/25/2014	☐	10296	10.70	6.70	0.00	10295.21	78.69	78.69	-0.47	12.31
39	1/25/2014	☐	10341	14.80	6.00	0.00	10339.10	88.56	88.56	0.62	9.12
40	1/26/2014	☐	10359	15.60	7.90	0.00	10356.47	93.24	93.24	1.19	5.24
41	1/26/2014	☐	10391	18.00	5.00	0.00	10387.10	102.43	102.43	2.21	7.94
42	1/26/2014	☐	10423	20.30	0.90	0.00	10417.33	112.90	112.90	2.73	8.32
43	1/26/2014	☐	10454	22.60	357.60	0.00	10446.18	124.23	124.23	2.57	8.38
44	1/26/2014	☐	10486	25.40	356.90	0.00	10475.42	137.23	137.23	1.94	8.79
45	1/26/2014	☐	10518	28.20	356.50	0.00	10503.98	151.63	151.63	1.11	8.77
46	1/26/2014	☐	10581	34.50	356.40	0.00	10557.78	184.29	184.29	-0.92	10.00
47	1/26/2014	☐	10613	37.80	357.80	0.00	10583.62	203.13	203.13	-1.87	10.63
48	1/26/2014	☐	10645	40.40	359.00	0.00	10608.46	223.30	223.30	-2.43	8.46
49	1/26/2014	☐	10677	42.30	0.60	0.00	10632.48	244.44	244.44	-2.49	6.79
50	1/26/2014	☐	10709	44.20	0.40	0.00	10655.79	266.36	266.36	-2.30	5.95
51	1/26/2014	☐	10741	47.10	0.70	0.00	10678.16	289.23	289.23	-2.08	9.09
52	1/26/2014	☐	10772	50.10	0.40	0.00	10698.66	312.48	312.48	-1.86	9.70
53	1/26/2014	☐	10804	52.40	0.70	0.00	10718.69	337.43	337.43	-1.62	7.22
54	1/26/2014	☐	10836	55.10	1.90	0.00	10737.61	363.22	363.22	-1.03	8.96
55	1/26/2014	☐	10881	58.98	0.40	0.00	10762.09	400.94	400.94	-0.28	9.06
56	1/27/2014	☐	10931	63.80	1.10	0.00	10786.03	444.80	444.80	0.30	9.72
57	1/28/2014	☐	10963	66.30	0.40	0.00	10799.53	473.80	473.80	0.67	8.06
58	1/28/2014	☐	10995	68.60	0.30	0.00	10811.80	503.35	503.35	0.85	7.19
59	1/28/2014	☐	11026	69.90	0.30	0.00	10822.79	532.33	532.33	1.01	4.19
60	1/28/2014	☐	11058	72.10	359.90	0.00	10833.20	562.58	562.58	1.06	6.98
61	1/28/2014	☐	11090	74.70	359.40	0.00	10842.35	593.24	593.24	0.87	8.26
62	1/28/2014	☐	11122	76.60	359.30	0.00	10850.28	624.24	624.24	0.52	5.95
63	1/28/2014	☐	11153	77.10	359.00	0.00	10857.33	654.42	654.42	0.07	1.87
64	1/28/2014	☐	11185	77.60	359.20	0.00	10864.34	685.64	685.64	-0.42	1.68
65	1/28/2014	☐	11217	78.10	359.40	0.00	10871.07	716.92	716.92	-0.80	1.68
66	1/28/2014	☐	11249	78.70	359.60	0.00	10877.51	748.27	748.27	-1.08	1.97
67	1/28/2014	☐	11281	79.40	359.30	0.00	10883.58	779.68	779.68	-1.38	2.37
68	1/28/2014	☐	11313	81.70	359.60	0.00	10888.84	811.24	811.24	-1.68	7.25
69	1/29/2014	☐	11376	86.10	0.10	0.00	10895.53	873.83	873.83	-1.84	7.03
70	1/29/2014	☐	11408	88.10	0.30	0.00	10897.15	905.79	905.79	-1.73	6.28
71	1/31/2014	☐	11504	89.40	0.30	0.00	10899.25	1001.76	1001.76	-1.23	1.35
72	1/31/2014	☐	11599	89.90	0.04	0.00	10899.83	1096.76	1096.76	-0.95	0.59
73	2/1/2014	☐	11695	90.40	359.10	0.00	10899.58	1192.75	1192.75	-1.67	1.11
74	2/1/2014	☐	11790	89.40	359.30	0.00	10899.74	1287.73	1287.73	-2.99	1.07
75	2/1/2014	☐	11885	88.80	358.90	0.00	10901.23	1382.71	1382.71	-4.49	0.76
76	2/1/2014	☐	11981	88.60	358.00	0.00	10903.41	1478.65	1478.65	-7.08	0.96



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77	2/1/2014	☐	12077	88.70	357.70	0.00	10905.67	1574.55	1574.55	-10.68	0.33
78	2/1/2014	☐	12172	88.80	356.90	0.00	10907.75	1669.42	1669.42	-15.16	0.85
79	2/2/2014	☐	12267	88.80	357.60	0.00	10909.74	1764.29	1764.29	-19.71	0.74
80	2/2/2014	☐	12363	88.80	356.90	0.00	10911.75	1860.16	1860.16	-24.32	0.73
81	2/3/2014	☐	12458	88.70	357.70	0.00	10913.82	1955.03	1955.03	-28.79	0.85
82	2/3/2014	☐	12553	89.80	358.70	0.00	10915.06	2049.96	2049.96	-31.78	1.56
83	2/3/2014	☐	12649	89.50	359.60	0.00	10915.65	2145.95	2145.95	-33.20	0.99
84	2/3/2014	☐	12744	89.30	359.90	0.00	10916.64	2240.94	2240.94	-33.61	0.38
85	2/3/2014	☐	12840	89.60	359.10	0.00	10917.56	2336.93	2336.93	-34.45	0.89
86	2/4/2014	☐	12925	89.08	0.04	0.00	10918.54	2421.92	2421.92	-35.09	1.26
87	2/4/2014	☐	13020	89.87	359.86	0.00	10919.41	2516.91	2516.91	-35.17	0.85
88	2/4/2014	☐	13115	90.92	359.51	0.00	10918.76	2611.90	2611.90	-35.69	1.17
89	2/5/2014	☐	13210	90.20	359.69	0.00	10917.83	2706.89	2706.89	-36.36	0.78
90	2/5/2014	☐	13306	89.43	359.51	0.00	10918.14	2802.89	2802.89	-37.03	0.82
91	2/5/2014	☐	13401	90.31	358.63	0.00	10918.36	2897.87	2897.87	-38.57	1.31
92	2/5/2014	☐	13496	89.43	358.81	0.00	10918.57	2992.84	2992.84	-40.69	0.95
93	2/5/2014	☐	13592	88.90	358.81	0.00	10919.97	3088.81	3088.81	-42.69	0.55
94	2/5/2014	☐	13687	90.31	358.46	0.00	10920.63	3183.78	3183.78	-44.95	1.53
95	2/5/2014	☐	13783	89.34	359.16	0.00	10920.92	3279.75	3279.75	-46.94	1.25
96	2/5/2014	☐	13878	89.34	359.33	0.00	10922.01	3374.73	3374.73	-48.19	0.18
97	2/5/2014	☐	13973	89.25	359.69	0.00	10923.18	3469.72	3469.72	-49.01	0.39
98	2/5/2014	☐	14069	88.99	0.04	0.00	10924.66	3565.71	3565.71	-49.23	0.45
99	2/5/2014	☐	14164	89.78	359.86	0.00	10925.68	3660.70	3660.70	-49.32	0.85
100	2/5/2014	☐	14260	89.34	359.69	0.00	10926.41	3756.70	3756.70	-49.69	0.49
101	2/6/2014	☐	14356	88.81	359.51	0.00	10927.96	3852.68	3852.68	-50.36	0.58
102	2/6/2014	☐	14451	89.78	359.16	0.00	10929.13	3947.67	3947.67	-51.46	1.09
103	2/6/2014	☐	14546	89.08	358.81	0.00	10930.08	4042.64	4042.64	-53.15	0.82
104	2/6/2014	☐	14642	90.31	358.46	0.00	10930.59	4138.61	4138.61	-55.43	1.33
105	2/6/2014	☐	14737	89.08	359.51	0.00	10931.09	4233.58	4233.58	-57.12	1.70
106	2/6/2014	☐	14832	90.13	358.98	0.00	10931.75	4328.57	4328.57	-58.37	1.24
107	2/6/2014	☐	14928	89.78	359.33	0.00	10931.82	4424.56	4424.56	-59.78	0.52
108	2/6/2014	☐	15023	88.90	359.16	0.00	10932.92	4519.54	4519.54	-61.04	0.94
109	2/6/2014	☐	15118	90.04	358.98	0.00	10933.80	4614.52	4614.52	-62.58	1.21
110	2/6/2014	☐	15214	89.69	0.04	0.00	10934.02	4710.51	4710.51	-63.40	1.16
111	2/6/2014	☐	15309	91.01	0.04	0.00	10933.44	4805.50	4805.50	-63.33	1.39
112	2/7/2014	☐	15404	92.42	359.69	0.00	10930.60	4900.45	4900.45	-63.56	1.53