

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 11 2015

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Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42316	² Pool Code 97056	³ Pool Name Hackberry, Bone Spring, N
⁴ Property Code 38504	⁵ Property Name HELIOS "6" FED COM	⁶ Well Number 4H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3523.8

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	6	19 S	31 E		25	SOUTH	1800	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	6	19 S	31 E		312	NORTH	1652	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
159.74			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°39'31"E 2506.90 FT NW CORNER SEC. 6 LAT. = 32.6986257°N LONG. = 103.9169085°W NMSP EAST (FT) N = 617415.18 E = 669439.18 LOT 4 W Q CORNER SEC. 6 LAT. = 32.6893725°N LONG. = 103.9169149°W NMSP EAST (FT) N = 614776.36 E = 669447.56 LOT 5 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. LOT 6 SW CORNER SEC. 6 LAT. = 32.6821138°N LONG. = 103.9169203°W NMSP EAST (FT) N = 612135.57 E = 669456.27		N Q CORNER SEC. 6 LAT. = 32.6986394°N LONG. = 103.9087613°W NMSP EAST (FT) N = 617430.09 E = 671945.45 LOT 3 BOTTOM OF HOLE LAT. = 32.6951088°N LONG. = 103.9055374°W NMSP EAST (FT) N = 617095.50 E = 672938.56 USA NM-66437 HELIOS "6" FED COM #4H ELEV. = 3523.8 LAT. = 32.6822221°N (NAD83) LONG. = 103.9059778°W NMSP EAST (FT) N = 612188.33 E = 672822.86 USA NM-0560355 S Q CORNER SEC. 6 LAT. = 32.6821442°N LONG. = 103.9037087°W NMSP EAST (FT) N = 612156.84 E = 671982.74		N89°41'32"E 2640.99 FT NE CORNER SEC. 6 LAT. = 32.6986490°N LONG. = 103.9001783°W NMSP EAST (FT) N = 617444.28 E = 674585.79 LOT 2 E Q CORNER SEC. 6 LAT. = 32.6894311°N LONG. = 103.9001536°W NMSP EAST (FT) N = 614818.32 E = 674604.08 LOT 1 SE CORNER SEC. 6 LAT. = 32.6821725°N LONG. = 103.9001286°W NMSP EAST (FT) N = 612177.60 E = 674622.57	
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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Lucretia Morris 1/14/2015
Signature Date

Lucretia Morris, Regulatory Analyst

Printed Name

Lucretia.Morris@dmv.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 19, 2015

Date of Survey

NEW MEXICO

12797

Signature and Seal of the Surveyor

Certificate Number: FELDON F. JARAMILLO, PLS 12797

SURVEY NO. 1839

PP: 1770' FEL & 173' FSL, Sec 6, T19S, R31E

Project Area:

Producing Area:



Directional Survey

District DELAWARE BASIN	County EDDY	Field Name HACKBERRY	Project Group DELAWARE SLOPE EAST	State/Province NM
Surface/Log Location Sec 16 T49S R31E	API/UWI 3001542316	Latitude (°) 32° 40' 56" N	Longitude (°) 103° 54' 21.52" W	Ground Elev. M... 3,523.80
				Orig KB Elev (ft.) 3,550.00
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore	SAP Well ID 37263	Vertical Section Direction (°) 1.03
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Kick-Offs & Key Depths

Date 12/2/2014	Type Fill Depth	Top Depth (ftKB) 0.0
Date 12/2/2014	Type Kick Off	Top Depth (ftKB) 7,369.0
Actual Deviation Survey FLODRIFT/MWD, Proposed? No	Definitive? Yes	Proposed? No
	Proposed Deviation Survey	

Deviation Survey

Date 11/14/2014		Description FLODRIFT/MWD			
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) 0.00	EWtie In (ft) 0.00

Survey Data.

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/2/2014	197.00	0.35	162.11	197.00	0.57	0.57	0.18	0.18	MWD	NOV
12/2/2014	209.00	0.41	292.87	209.00	0.59	0.59	0.16	0.16	MWD	NOV
12/2/2014	369.00	0.51	282.52	368.99	0.23	0.24	1.07	0.08	MWD	NOV
12/2/2014	486.00	0.69	268.85	485.99	0.16	0.12	2.28	0.20	MWD	NOV
12/2/2014	569.00	0.71	257.06	568.98	0.30	0.24	3.28	0.17	MWD	NOV
12/2/2014	657.00	0.75	244.87	656.97	0.68	0.61	4.33	0.18	MWD	NOV
12/2/2014	844.00	0.83	303.27	843.96	0.50	0.38	6.57	0.41	MWD	NOV
12/2/2014	971.00	0.92	298.31	970.94	0.46	0.60	8.24	0.09	MWD	NOV
12/2/2014	1,097.00	1.05	303.48	1,096.93	1.54	1.72	10.09	0.12	MWD	NOV
12/2/2014	1,222.00	1.15	312.73	1,221.90	2.99	3.20	11.97	0.16	MWD	NOV
12/2/2014	1,344.00	1.28	310.31	1,343.88	4.67	4.92	13.91	0.11	MWD	NOV
12/2/2014	1,467.00	1.17	313.71	1,466.85	6.39	6.67	15.86	0.11	MWD	NOV
12/2/2014	1,587.00	1.22	312.59	1,586.82	8.06	8.38	17.69	0.05	MWD	NOV
12/2/2014	1,679.00	1.15	314.85	1,678.80	9.35	9.70	19.07	0.09	MWD	NOV
12/2/2014	1,805.00	1.30	327.67	1,804.77	11.42	11.80	20.73	0.25	MWD	NOV
12/2/2014	1,865.00	1.28	330.70	1,864.76	12.57	12.96	21.42	0.12	MWD	NOV
12/2/2014	1,960.00	1.27	336.12	1,959.73	14.44	14.84	22.36	0.13	MWD	NOV
12/2/2014	2,054.00	1.40	353.77	2,053.71	16.52	16.94	22.91	0.46	MWD	NOV
12/2/2014	2,149.00	1.46	1.67	2,148.68	18.89	19.30	23.00	0.22	MWD	NOV
12/2/2014	2,246.00	1.51	1.88	2,245.65	21.40	21.81	22.92	0.05	MWD	NOV
12/2/2014	2,341.00	1.57	357.56	2,340.61	23.95	24.37	22.94	0.14	MWD	NOV
12/2/2014	2,435.00	1.54	356.62	2,434.58	26.49	26.91	23.07	0.04	MWD	NOV
12/2/2014	2,530.00	1.65	0.95	2,529.54	29.13	29.56	23.12	0.17	MWD	NOV
12/2/2014	2,624.00	1.57	359.93	2,623.50	31.78	32.20	23.10	0.09	MWD	NOV
12/2/2014	2,719.00	1.56	3.13	2,718.47	34.37	34.79	23.03	0.09	MWD	NOV
12/2/2014	2,812.00	1.46	1.45	2,811.44	36.82	37.24	22.93	0.12	MWD	NOV
12/2/2014	2,905.00	1.53	5.45	2,904.40	39.24	39.66	22.78	0.14	MWD	NOV
12/2/2014	2,999.00	1.58	4.09	2,998.37	41.79	42.20	22.57	0.07	MWD	NOV
12/2/2014	3,093.00	1.58	5.30	3,092.33	44.37	44.78	22.36	0.04	MWD	NOV
12/2/2014	3,191.00	1.71	5.05	3,190.29	47.18	47.58	22.10	0.13	MWD	NOV
12/2/2014	3,286.00	1.82	4.71	3,285.25	50.10	50.50	21.86	0.12	MWD	NOV
12/2/2014	3,380.00	1.90	7.79	3,379.20	53.14	53.53	21.52	0.14	MWD	NOV
12/2/2014	3,474.00	1.92	5.74	3,473.15	56.25	56.64	21.15	0.08	MWD	NOV
12/2/2014	3,566.00	2.03	6.70	3,565.09	59.41	59.79	20.81	0.12	MWD	NOV
12/2/2014	3,658.00	2.15	5.87	3,657.03	62.75	63.13	20.44	0.13	MWD	NOV
12/2/2014	3,752.00	2.15	8.48	3,750.96	66.26	66.63	20.00	0.10	MWD	NOV
12/2/2014	3,810.00	2.14	7.15	3,808.92	68.41	68.78	19.74	0.09	MWD	NOV
12/2/2014	4,000.00	2.39	8.50	3,998.78	75.87	76.22	18.68	0.13	MWD	NOV
12/2/2014	4,058.00	2.34	6.89	4,056.73	78.24	78.59	18.36	0.14	MWD	NOV
12/2/2014	4,108.00	2.23	12.67	4,106.69	80.21	80.55	18.02	0.51	MWD	NOV
12/2/2014	4,201.00	2.31	0.77	4,199.61	83.86	84.19	17.60	0.51	MWD	NOV
12/2/2014	4,297.00	2.35	11.59	4,295.54	87.73	88.05	17.18	0.46	MWD	NOV
12/2/2014	4,392.00	2.32	5.83	4,390.46	91.56	91.87	16.59	0.25	MWD	NOV
12/2/2014	4,487.00	2.40	8.05	4,485.38	95.45	95.75	16.12	0.13	MWD	NOV
12/2/2014	4,580.00	2.19	12.97	4,578.30	99.12	99.41	15.45	0.31	MWD	NOV
12/2/2014	4,674.00	2.24	10.41	4,672.23	102.69	102.97	14.71	0.12	MWD	NOV



HELIOS 6 FED COM 4H

DELAWARE BASIN UNRESTRICTED

Directional Survey

District DELAWARE BASIN	County EDDY	Field Name HACKBERRY	Project Group DELAWARE SLOPE EAST	State/Province NM
Surface Legal Location Sec. 6 T.19S R.31E	API/UWI 3001542316	Latitude (°) 32° 40' 56" N	Longitude (°) 103° 54' 21.52" W	Ground Elev. M. 3,523.80
				Orig KB Elev (ft) 3,550.00
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/2/2014	4,769.00	2.19	15.88	4,767.16	106.28	106.54	-13.88	0.23	MWD	NOV
12/2/2014	4,864.00	1.98	15.84	4,862.10	109.62	109.87	-12.94	0.22	MWD	NOV
12/2/2014	4,959.00	2.00	13.10	4,957.04	112.82	113.06	-12.11	0.10	MWD	NOV
12/2/2014	5,054.00	2.05	14.79	5,051.98	116.10	116.32	-11.30	0.08	MWD	NOV
12/2/2014	5,147.00	2.02	18.37	5,144.92	119.28	119.48	-10.36	0.14	MWD	NOV
12/2/2014	5,242.00	1.96	23.67	5,239.86	122.37	122.56	-9.18	0.20	MWD	NOV
12/2/2014	5,336.00	1.79	28.05	5,333.81	125.17	125.33	-7.85	0.24	MWD	NOV
12/2/2014	5,430.00	1.93	24.60	5,427.77	127.92	128.06	-6.50	0.19	MWD	NOV
12/2/2014	5,524.00	1.85	25.37	5,521.71	130.76	130.87	-5.19	0.09	MWD	NOV
12/2/2014	5,619.00	1.86	26.55	5,616.66	133.55	133.64	-3.84	0.04	MWD	NOV
12/2/2014	5,714.00	1.91	30.29	5,711.61	136.32	136.38	-2.35	0.14	MWD	NOV
12/2/2014	5,808.00	1.85	35.69	5,805.56	138.93	138.97	-0.68	0.20	MWD	NOV
12/2/2014	5,903.00	2.00	32.66	5,900.51	141.61	141.61	1.11	0.19	MWD	NOV
12/2/2014	5,998.00	1.90	36.93	5,995.45	144.29	144.26	2.95	0.19	MWD	NOV
12/2/2014	6,091.00	1.91	38.92	6,088.40	146.77	146.70	4.85	0.07	MWD	NOV
12/2/2014	6,186.00	2.04	37.89	6,183.35	149.37	149.27	6.88	0.14	MWD	NOV
12/2/2014	6,280.00	2.44	33.58	6,277.27	152.39	152.26	9.02	0.46	MWD	NOV
12/2/2014	6,374.00	2.28	33.42	6,371.19	155.66	155.48	11.16	0.17	MWD	NOV
12/2/2014	6,468.00	2.29	35.33	6,465.12	158.79	158.58	13.27	0.08	MWD	NOV
12/2/2014	6,562.00	2.09	36.33	6,559.05	161.74	161.49	15.37	0.22	MWD	NOV
12/2/2014	6,661.00	1.96	42.35	6,657.99	164.48	164.19	17.58	0.25	MWD	NOV
12/2/2014	6,755.00	2.08	39.41	6,751.93	167.03	166.70	19.75	0.17	MWD	NOV
12/2/2014	6,850.00	1.87	44.05	6,846.87	169.51	169.15	21.92	0.28	MWD	NOV
12/2/2014	6,940.00	2.16	51.52	6,936.82	171.67	171.26	24.27	0.43	MWD	NOV
12/2/2014	7,035.00	2.07	62.55	7,031.75	173.62	173.16	27.19	0.44	MWD	NOV
12/2/2014	7,129.00	1.98	68.81	7,125.70	175.05	174.53	30.21	0.25	MWD	NOV
12/2/2014	7,223.00	1.90	77.86	7,219.64	176.02	175.45	33.25	0.34	MWD	NOV
12/2/2014	7,288.00	1.92	80.04	7,284.61	176.47	175.86	35.38	0.12	MWD	NOV
12/2/2014	7,323.00	1.85	74.58	7,319.59	176.74	176.11	36.50	0.55	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,354.00	3.69	19.85	7,350.55	177.83	177.18	37.32	9.76	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,386.00	6.24	14.36	7,382.43	180.49	179.84	38.10	8.10	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,417.00	9.06	17.31	7,413.15	184.48	183.80	39.25	9.18	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,449.00	12.75	15.63	7,444.57	190.31	189.61	40.95	11.57	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,480.00	16.18	13.00	7,474.58	197.85	197.11	42.84	11.26	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,512.00	19.52	11.38	7,505.04	207.48	206.70	44.90	10.55	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,543.00	22.69	9.91	7,533.95	218.48	217.67	46.95	10.37	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,575.00	25.85	8.93	7,563.12	231.49	230.65	49.10	9.95	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,606.00	28.58	8.45	7,590.69	245.54	244.66	51.24	8.83	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,638.00	31.83	7.52	7,618.34	261.52	260.60	53.47	10.26	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,669.00	33.85	6.71	7,644.39	278.24	277.28	55.54	6.67	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,701.00	36.05	5.01	7,670.61	296.50	295.52	57.41	7.52	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,732.00	39.39	3.53	7,695.13	315.43	314.43	58.81	11.16	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,764.00	41.86	2.40	7,719.42	336.25	335.23	59.88	8.05	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,795.00	45.20	1.68	7,741.89	357.60	356.57	60.64	10.89	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,826.00	49.24	1.08	7,762.94	380.35	379.31	61.18	13.11	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,858.00	52.67	0.92	7,783.10	405.20	404.15	61.62	10.73	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,890.00	55.84	0.54	7,801.79	431.16	430.12	61.95	9.95	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,921.00	59.79	0.97	7,818.30	457.39	456.35	62.29	12.80	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,953.00	62.87	0.93	7,833.65	485.47	484.42	62.76	9.63	MWD	PATHFINDER ENERGY SE...
12/2/2014	7,984.00	65.69	1.48	7,847.10	513.39	512.34	63.35	9.24	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,015.00	69.12	1.12	7,859.01	542.01	540.95	64.00	11.12	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,047.00	72.11	1.40	7,869.63	572.19	571.12	64.66	9.38	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,078.00	75.53	2.36	7,878.26	601.96	600.87	65.64	11.43	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,110.00	79.14	3.40	7,885.28	633.15	632.05	67.21	11.72	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,141.00	83.10	2.79	7,890.06	663.76	662.63	68.86	12.92	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,173.00	87.05	2.41	7,892.81	695.62	694.47	70.31	12.40	MWD	PATHFINDER ENERGY SE...



HELIOS 6 FED COM 4H

DELAWARE BASIN UNRESTRICTED

Directional Survey

District	County	Field Name	Project Group	State/Province		
DELAWARE BASIN	EDDY	HACKBERRY	DELAWARE SLOPE EAST	NM		
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev. M.	Orig KB Elev. (ft)	Tubing Head Elevation (ft)
Sec 6, T19S, R31E	3001542316	32°40'56" N	103°54'21'52" W	3,523.80	3,550.00	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/2/2014	8,200.00	89.60	2.71	7893160	722'60"	721'43"	74'51"	9'51"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,236.00	89.69	2.89	7893182	758'58"	757'38"	73'27"	0'56"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,331.00	90.66	0.54	7893153	853'56"	852'33"	76'11"	2'68"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,425.00	90.57	0.31	7892152	947'55"	946'33"	76'81"	0'26"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,520.00	91.36	358.90	7890192	1042'51"	1041'31"	76'16"	1'70"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,614.00	89.43	358.25	7890128	1136'41"	1135'27"	73'82"	2'17"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,708.00	89.34	1.32	7891128	1230'38"	1229'25"	73'47"	3'27"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,803.00	89.25	1.80	7892145	1325'36"	1324'21"	76'05"	0'54"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,898.00	89.34	359.49	7893162	1420'35"	1419'19"	77'12"	2'43"	MWD	PATHFINDER ENERGY SE...
12/2/2014	8,992.00	91.36	359.39	7893105	1514'31"	1513'18"	76'20"	2'51"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,086.00	90.40	359.36	7891160	1608'25"	1607'16"	75'18"	1'02"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,180.00	90.40	359.36	7890195	1702'21"	1701'15"	74'13"	0'00"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,275.00	90.75	359.81	7890100	1797'18"	1796'15"	73'44"	0'60"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,369.00	90.92	0.73	7888163	1894'16"	1890'13"	73'88"	1'00"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,463.00	91.28	1.23	7886182	1985'14"	1984'10"	75'49"	0'66"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,558.00	91.19	0.60	7884177	2080'12"	2079'07"	77'01"	0'67"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,652.00	91.54	1.12	7882153	2174'09"	2173'03"	78'42"	0'67"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,747.00	91.98	1.93	7879162	2269'04"	2267'95"	80'94"	0'97"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,841.00	92.24	2.28	7876116	2362'96"	2361'82"	84'39"	0'46"	MWD	PATHFINDER ENERGY SE...
12/2/2014	9,936.00	91.80	2.88	7872181	2457'86"	2456'67"	88'67"	0'78"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,030.00	91.80	1.72	7869185	2551'79"	2550'54"	92'44"	1'23"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,125.00	91.63	359.78	7867101	2646'75"	2645'49"	93'68"	2'05"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,219.00	91.71	0.18	7864127	2740'69"	2739'45"	93'65"	0'43"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,313.00	92.77	359.90	7860160	2834'60"	2833'38"	93'71"	1'17"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,408.00	91.54	357.18	7857102	2929'43"	2928'27"	91'30"	3'14"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,503.00	92.07	357.66	7854103	3024'20"	3023'12"	87'02"	0'75"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,597.00	90.66	358.15	7851179	3118'03"	3117'03"	83'59"	1'59"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,692.00	91.10	358.50	7850133	3212'91"	3211'98"	80'81"	0'59"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,785.00	91.54	358.93	7848119	3305'81"	3304'93"	78'72"	0'66"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,880.00	91.98	359.34	7845127	3400'71"	3399'87"	77'29"	0'63"	MWD	PATHFINDER ENERGY SE...
12/2/2014	10,974.00	90.75	359.53	7843103	3494'65"	3493'84"	76'36"	1'32"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,069.00	91.19	359.69	7841143	3589'61"	3588'82"	75'72"	0'49"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,163.00	91.45	0.31	7839126	3683'56"	3682'80"	75'72"	0'72"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,258.00	91.54	0.67	7836178	3778'53"	3777'76"	76'53"	0'39"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,353.00	92.33	0.97	7833157	3873'47"	3872'70"	77'89"	0'89"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,447.00	90.66	0.27	7831112	3967'43"	3966'66"	78'90"	1'93"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,542.00	91.01	0.53	7829174	4062'42"	4061'64"	79'57"	0'46"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,636.00	91.36	1.16	7827179	4156'40"	4155'61"	80'95"	0'77"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,731.00	91.63	1.48	7825132	4251'36"	4250'56"	83'14"	0'44"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,825.00	90.57	1.00	7823151	4345'34"	4344'51"	85'18"	1'24"	MWD	PATHFINDER ENERGY SE...
12/2/2014	11,920.00	90.84	1.00	7822134	4440'34"	4439'49"	86'83"	0'28"	MWD	PATHFINDER ENERGY SE...
12/2/2014	12,014.00	91.28	1.45	7820160	4534'32"	4533'45"	88'84"	0'67"	MWD	PATHFINDER ENERGY SE...
12/2/2014	12,109.00	91.54	1.77	7818127	4629'29"	4628'39"	91'51"	0'43"	MWD	PATHFINDER ENERGY SE...
12/2/2014	12,203.00	91.10	359.93	7816110	4723'26"	4722'35"	92'90"	2'01"	MWD	PATHFINDER ENERGY SE...
12/2/2014	12,298.00	91.19	357.57	7814120	4818'15"	4817'30"	90'83"	2'49"	MWD	PATHFINDER ENERGY SE...
12/2/2014	12,369.00	92.07	359.04	7812118	4889'04"	4888'24"	88'73"	2'41"	MWD	PATHFINDER ENERGY SE...
12/2/2014	12,427.00	92.07	359.04	7810109	4946'97"	4946'19"	87'76"	0'00"	BIT	PATHFINDER ENERGY SE...