

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

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 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, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35552	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESA VERDE
⁴ Property Code 6823	⁵ Property Name BEAVER LODGE COM	⁶ Well Number 1M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6217

¹⁰ Surface Location

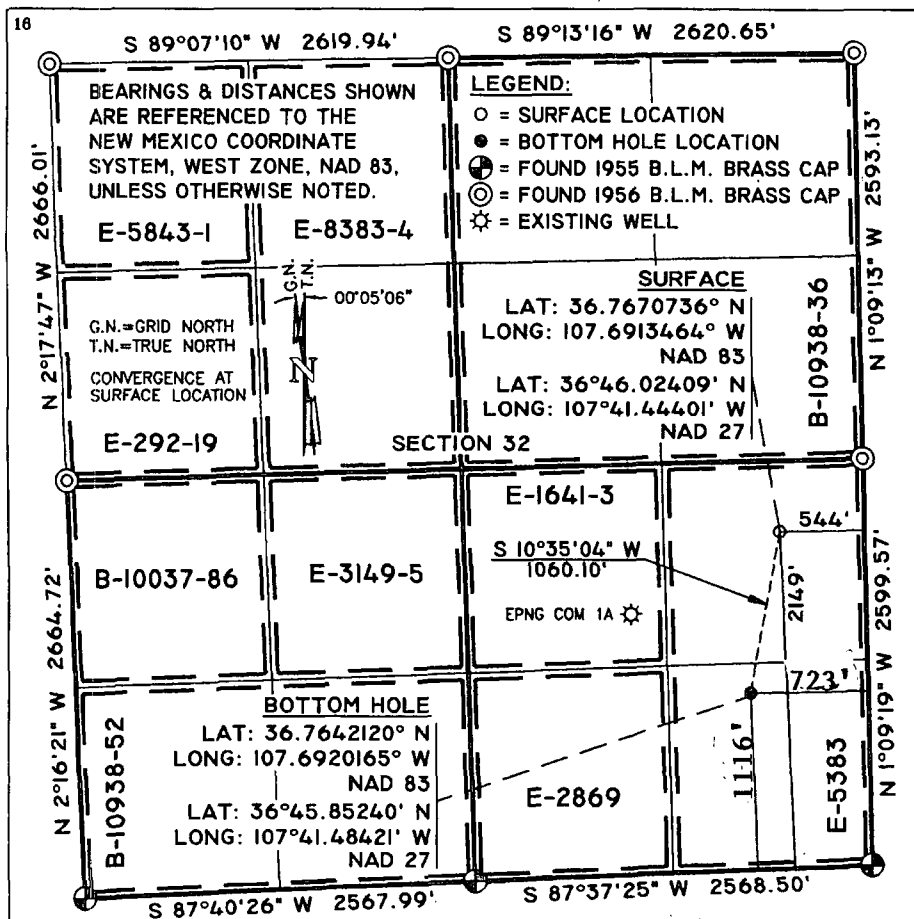
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	30 N	8 W		2149	SOUTH	544	EAST	SAN JUAN

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
P	32	30 N	8 W		1116	SOUTH	723	EAST	SAN JUAN

¹² Dedicated Acres 320 (MV) E 1/2 320 (DK) S 1/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



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 unleased 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.

Denise Journey 12/30/14
Signature Date
Denise Journey
Printed Name
Denise.J.Journey@copc.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.

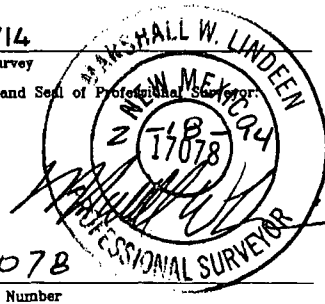
01/17/14

Date of Survey

Signature and Seal of Professional Surveyor

17078

Certificate Number



IV OIL CONS. DIV DIST. 3

DEC 30 2014

COP Deviation Report BEAVER LODGE COM #1M

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName BEAVER LODGE COM #1M	API / UWI 3004535552	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 032-030N-008W-I	N/S Dist (ft) 2,149.00	N/S Ref FSL	E/W Dist (ft) 544.00	E/W Ref FEL

Date 11/24/2014	Description INCLINATION SURVEY
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Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
11/24/2014	115.00	0.50	0.00	Inc-Drop	MO-TE DRILLING INC
11/25/2014	236.00	1.00	0.00	Inc-Drop	MO-TE DRILLING INC
11/25/2014	7,600.00	1.50	0.00	Inc-Drop	Phoenix Services LLC

Date 12/3/2014	Description DIRECTIONAL SURVEY
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Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/3/2014	245.00	0.60	94.30	IncAzi-MWD	CATHEDRAL
12/3/2014	276.00	0.80	87.50	IncAzi-MWD	CATHEDRAL
12/3/2014	306.00	1.30	148.90	IncAzi-MWD	CATHEDRAL
12/3/2014	337.00	2.30	165.50	IncAzi-MWD	CATHEDRAL
12/3/2014	367.00	3.30	170.30	IncAzi-MWD	CATHEDRAL
12/3/2014	397.00	4.30	173.50	IncAzi-MWD	CATHEDRAL
12/3/2014	428.00	5.20	176.20	IncAzi-MWD	CATHEDRAL
12/3/2014	459.00	6.00	177.60	IncAzi-MWD	CATHEDRAL
12/3/2014	490.00	7.00	176.70	IncAzi-MWD	CATHEDRAL
12/3/2014	520.00	8.00	180.10	IncAzi-MWD	CATHEDRAL
12/3/2014	551.00	9.00	183.30	IncAzi-MWD	CATHEDRAL
12/3/2014	582.00	9.70	182.10	IncAzi-MWD	CATHEDRAL
12/3/2014	612.00	10.50	184.50	IncAzi-MWD	CATHEDRAL
12/3/2014	642.00	11.60	184.30	IncAzi-MWD	CATHEDRAL
12/3/2014	673.00	12.40	185.50	IncAzi-MWD	CATHEDRAL
12/3/2014	704.00	12.40	188.90	IncAzi-MWD	CATHEDRAL
12/3/2014	735.00	13.20	192.10	IncAzi-MWD	CATHEDRAL
12/3/2014	766.00	13.50	193.40	IncAzi-MWD	CATHEDRAL
12/3/2014	797.00	13.80	193.10	IncAzi-MWD	CATHEDRAL
12/3/2014	827.00	14.60	194.70	IncAzi-MWD	CATHEDRAL
12/3/2014	858.00	14.90	193.40	IncAzi-MWD	CATHEDRAL
12/3/2014	888.00	15.50	195.40	IncAzi-MWD	CATHEDRAL
12/3/2014	919.00	16.20	195.20	IncAzi-MWD	CATHEDRAL

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

[Signature]

OIL CONS. DIV DIST. 3

Subscribed and sworn to me this 30th day of December

DEC 30 2014

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires May 26, 2015





COP Deviation Report
BEAVER LODGE COM #1M

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/3/2014	950.00	16.90	194.40	IncAzi-MWD	CATHEDRAL
12/3/2014	980.00	17.90	195.40	IncAzi-MWD	CATHEDRAL
12/3/2014	1,011.00	18.50	194.10	IncAzi-MWD	CATHEDRAL
12/3/2014	1,043.00	20.00	193.10	IncAzi-MWD	CATHEDRAL
12/3/2014	1,074.00	20.40	193.30	IncAzi-MWD	CATHEDRAL
12/3/2014	1,106.00	20.50	193.10	IncAzi-MWD	CATHEDRAL
12/3/2014	1,138.00	20.40	192.80	IncAzi-MWD	CATHEDRAL
12/3/2014	1,169.00	21.40	192.10	IncAzi-MWD	CATHEDRAL
12/3/2014	1,201.00	21.60	190.40	IncAzi-MWD	CATHEDRAL
12/3/2014	1,233.00	22.60	189.70	IncAzi-MWD	CATHEDRAL
12/3/2014	1,265.00	23.90	190.20	IncAzi-MWD	CATHEDRAL
12/3/2014	1,329.00	25.60	190.70	IncAzi-MWD	CATHEDRAL
12/3/2014	1,393.00	26.20	190.90	IncAzi-MWD	CATHEDRAL
12/3/2014	1,456.00	25.50	192.40	IncAzi-MWD	CATHEDRAL
12/3/2014	1,520.00	25.20	192.60	IncAzi-MWD	CATHEDRAL
12/3/2014	1,584.00	25.80	192.50	IncAzi-MWD	CATHEDRAL
12/3/2014	1,647.00	25.20	194.50	IncAzi-MWD	CATHEDRAL
12/3/2014	1,711.00	23.90	193.30	IncAzi-MWD	CATHEDRAL
12/3/2014	1,776.00	23.70	192.50	IncAzi-MWD	CATHEDRAL
12/3/2014	1,839.00	24.60	191.60	IncAzi-MWD	CATHEDRAL
12/3/2014	1,902.00	23.90	193.30	IncAzi-MWD	CATHEDRAL
12/3/2014	1,966.00	24.30	193.10	IncAzi-MWD	CATHEDRAL
12/3/2014	2,029.00	23.50	192.40	IncAzi-MWD	CATHEDRAL
12/3/2014	2,093.00	23.00	193.10	IncAzi-MWD	CATHEDRAL
12/3/2014	2,156.00	23.00	190.60	IncAzi-MWD	CATHEDRAL
12/3/2014	2,220.00	23.10	188.40	IncAzi-MWD	CATHEDRAL
12/3/2014	2,284.00	23.60	188.50	IncAzi-MWD	CATHEDRAL
12/3/2014	2,348.00	23.90	188.40	IncAzi-MWD	CATHEDRAL
12/3/2014	2,412.00	23.30	189.60	IncAzi-MWD	CATHEDRAL
12/3/2014	2,476.00	23.20	189.50	IncAzi-MWD	CATHEDRAL
12/3/2014	2,540.00	23.30	189.50	IncAzi-MWD	CATHEDRAL
12/3/2014	2,603.00	22.90	188.50	IncAzi-MWD	CATHEDRAL
12/3/2014	2,666.00	22.50	186.90	IncAzi-MWD	CATHEDRAL
12/3/2014	2,729.00	22.50	188.40	IncAzi-MWD	CATHEDRAL
12/3/2014	2,793.00	21.80	188.00	IncAzi-MWD	CATHEDRAL

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

OIL CONS. DIV DIST. 3

DEC 30 2014

Notary Public in and for San Juan County, New Mexico

My Commission expires _____



COP Deviation Report
BEAVER LODGE COM #1M

Survey Data

Date	MD (ftKB)	Incl (")	Azm.(°)	Method	Survey Company
12/3/2014	2,856.00	21.30	187.10	IncAzi-MWD	CATHEDRAL
12/3/2014	2,919.00	19.40	185.10	IncAzi-MWD	CATHEDRAL
12/3/2014	2,981.00	18.60	183.90	IncAzi-MWD	CATHEDRAL
12/3/2014	3,045.00	18.10	181.60	IncAzi-MWD	CATHEDRAL
12/3/2014	3,108.00	17.20	180.40	IncAzi-MWD	CATHEDRAL
12/3/2014	3,172.00	16.80	181.90	IncAzi-MWD	CATHEDRAL
12/3/2014	3,236.00	14.60	183.50	IncAzi-MWD	CATHEDRAL
12/3/2014	3,299.00	12.00	186.10	IncAzi-MWD	CATHEDRAL
12/3/2014	3,363.00	10.80	189.40	IncAzi-MWD	CATHEDRAL
12/3/2014	3,427.00	9.20	191.40	IncAzi-MWD	CATHEDRAL
12/3/2014	3,491.00	7.10	192.90	IncAzi-MWD	CATHEDRAL
12/3/2014	3,555.00	5.50	202.10	IncAzi-MWD	CATHEDRAL
12/3/2014	3,619.00	4.50	203.10	IncAzi-MWD	CATHEDRAL
12/3/2014	3,683.00	3.60	205.70	IncAzi-MWD	CATHEDRAL
12/3/2014	3,747.00	2.40	220.10	IncAzi-MWD	CATHEDRAL
12/3/2014	3,769.00	2.20	223.20	IncAzi-MWD	CATHEDRAL
12/3/2014	3,821.00	2.20	223.20	IncAzi-MWD	CATHEDRAL,PRO

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

OIL CONS. DIV DIST. 3

DEC 30 2014

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

**Conoco Phillips
San Juan Basin
New Mexico West Well
Beaver Lodge Com 1M
BHA #1**

30-045-35552

Job No. 145477

Survey Date: 02 December 2014

Cathedral Energy Services Ltd. Survey Report

04 December 2014

Surface Coordinates: 2098562.37 N, 2764858.52 E (36° 46' 01.4448" N, 107° 41' 26.6424" W)
Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone

Surface Coordinates relative to New Mexico West Well: 49580.11 S, 63813.73 E (True)

RKB Elevation: 6232.00ft above Mean Sea Level
RKB Elevation: 222.00ft above San Juan Basin

RKB Elevation: 15.00ft above Ground Level
Ground Level: 6217.00ft

Survey Ref: svy176

OIL CONS. DIV DIST. 3

DEC 30 2014





Survey Report for New Mexico West Well, Beaver Lodge Com 1M, BHA #1

Survey Depth (ft)	Incl. (°)	(True) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	
245.00	0.60	94.30	245.00	0.10 S	1.28 E	-0.14	0.245
276.00	0.80	87.50	275.99	0.10 S	1.66 E	-0.21	0.697
306.00	1.30	148.90	305.99	0.38 S	2.04 E	0.00	3.850
337.00	2.30	165.50	336.97	1.28 S	2.38 E	0.82	3.605
367.00	3.30	170.30	366.94	2.72 S	2.68 E	2.18	3.421
397.00	4.30	173.50	396.87	4.69 S	2.95 E	4.06	3.406
428.00	5.20	176.20	427.76	7.24 S	3.17 E	6.53	2.991
459.00	6.00	177.60	458.62	10.26 S	3.33 E	9.47	2.618
490.00	7.00	176.70	489.42	13.77 S	3.51 E	12.88	3.242
520.00	8.00	180.10	519.16	17.68 S	3.61 E	16.71	3.645
551.00	9.00	183.30	549.82	22.26 S	3.47 E	21.23	3.567
582.00	9.70	182.10	580.41	27.29 S	3.23 E	26.22	2.344
612.00	10.50	184.50	609.94	32.54 S	2.93 E	31.44	3.013
642.00	11.60	184.30	639.39	38.27 S	2.49 E	37.15	3.669
673.00	12.40	185.50	669.71	44.70 S	1.93 E	43.56	2.703
704.00	12.40	188.90	699.98	51.30 S	1.10 E	50.21	2.355
735.00	13.20	192.10	730.21	58.05 S	0.16 W	57.07	3.447
766.00	13.50	193.40	760.38	65.03 S	1.74 W	64.22	1.369
797.00	13.80	193.10	790.50	72.15 S	3.41 W	71.53	0.994
827.00	14.60	194.70	819.58	79.29 S	5.18 W	78.88	2.970
858.00	14.90	193.40	849.56	86.95 S	7.10 W	86.76	1.441
888.00	15.50	195.40	878.51	94.56 S	9.06 W	94.61	2.656
919.00	16.20	195.20	908.33	102.73 S	11.29 W	103.04	2.265
950.00	16.90	194.40	938.05	111.27 S	13.55 W	111.85	2.375
980.00	17.90	195.40	966.68	119.94 S	15.86 W	120.80	3.479
1011.00	18.50	194.10	996.13	129.30 S	18.32 W	130.46	2.337
1043.00	20.00	193.10	1026.34	139.55 S	20.80 W	140.99	4.799
1074.00	20.40	193.30	1055.43	149.97 S	23.24 W	151.68	1.309
1106.00	20.50	193.10	1085.41	160.86 S	25.79 W	162.85	0.381
1138.00	20.40	192.80	1115.40	171.76 S	28.30 W	174.03	0.453
1169.00	21.40	192.10	1144.36	182.55 S	30.68 W	185.08	3.325
1201.00	21.60	190.40	1174.13	194.06 S	32.97 W	196.81	2.045
1233.00	22.60	189.70	1203.78	205.91 S	35.07 W	208.84	3.232
1265.00	23.90	190.20	1233.18	218.35 S	37.25 W	221.47	4.109
1329.00	25.60	190.70	1291.30	244.70 S	42.12 W	248.27	2.676
1393.00	26.20	190.90	1348.87	272.16 S	47.35 W	276.22	0.947
1456.00	25.50	192.40	1405.57	299.06 S	52.90 W	303.68	1.521
1520.00	25.20	192.60	1463.40	325.81 S	58.83 W	331.07	0.487
1584.00	25.80	192.50	1521.17	352.71 S	64.81 W	358.61	0.940
1647.00	25.20	194.50	1578.03	379.08 S	71.14 W	385.70	1.666
1711.00	23.90	193.30	1636.25	404.89 S	77.53 W	412.24	2.175
1776.00	23.70	192.50	1695.72	430.45 S	83.39 W	438.45	0.584
1839.00	24.60	191.60	1753.20	455.66 S	88.77 W	464.22	1.543
1902.00	23.90	193.30	1810.65	480.93 S	94.34 W	490.08	1.569
1966.00	24.30	193.10	1869.07	506.37 S	100.31 W	516.19	0.638
2029.00	23.50	192.40	1926.66	531.26 S	105.94 W	541.69	1.347
2093.00	23.00	193.10	1985.47	555.90 S	111.52 W	566.94	0.893
2156.00	23.00	190.60	2043.46	579.99 S	116.57 W	591.55	1.550
2220.00	23.10	188.40	2102.35	604.70 S	120.70 W	616.59	1.355



Survey Report for New Mexico West Well, Beaver Lodge Com 1M, BHA #1

Survey Depth (ft)	Incl. (°)	(True) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2284.00	23.60	188.50	2161.11	629.79 S	124.43 W	641.94	0.784
2348.00	23.90	188.40	2219.69	655.29 S	128.22 W	667.70	0.473
2412.00	23.30	189.60	2278.34	680.59 S	132.22 W	693.31	1.201
2476.00	23.20	189.50	2337.14	705.51 S	136.42 W	718.57	0.168
2540.00	23.30	189.50	2395.94	730.42 S	140.59 W	743.82	0.156
2603.00	22.90	188.50	2453.89	754.84 S	144.45 W	768.53	0.889
2666.00	22.50	186.90	2512.01	778.93 S	147.71 W	792.81	1.168
2729.00	22.50	188.40	2570.22	802.82 S	150.92 W	816.88	0.911
2793.00	21.80	188.00	2629.49	826.70 S	154.37 W	840.99	1.119
2856.00	21.30	187.10	2688.09	849.64 S	157.41 W	864.09	0.951
2919.00	19.40	185.10	2747.15	871.42 S	159.75 W	885.93	3.211
2981.00	18.60	183.90	2805.78	891.54 S	161.34 W	906.00	1.436
3045.00	18.10	181.60	2866.52	911.66 S	162.31 W	925.95	1.375
3108.00	17.20	180.40	2926.56	930.76 S	162.65 W	944.78	1.541
3172.00	16.80	181.90	2987.76	949.47 S	163.02 W	963.23	0.927
3236.00	14.60	183.50	3049.37	966.76 S	163.82 W	980.38	3.503
3299.00	12.00	186.10	3110.67	981.20 S	165.00 W	994.79	4.234
3363.00	10.80	189.40	3173.41	993.74 S	166.69 W	1007.42	2.133
3427.00	9.20	191.40	3236.44	1004.67 S	168.68 W	1018.53	2.558
3491.00	7.10	192.90	3299.79	1013.54 S	170.58 W	1027.60	3.298
3555.00	5.50	202.10	3363.40	1020.24 S	172.61 W	1034.56	2.948
3619.00	4.50	203.10	3427.16	1025.39 S	174.75 W	1040.01	1.568
3683.00	3.60	205.70	3491.00	1029.51 S	176.61 W	1044.41	1.435
3747.00	2.40	220.10	3554.91	1032.34 S	178.34 W	1047.51	2.200
3769.00	2.20	223.20	3576.89	1033.00 S	178.93 W	1048.27	1.070

Bit Projection

3821.00	2.20	223.20	3628.85	1034.46 S	180.29 W	1049.95	0.000
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All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to Beaver Lodge Com 1M. Northings and Eastings are relative to Beaver Lodge Com 1M.

The dogleg severity is in Degrees per 100 feet (US Survey). Vertical Section is from Beaver Lodge Com 1M calculated along an azimuth of 190.67° (True).

Based upon minimum curvature calculations, at a measured depth of 3769.00ft, the bottom hole displacement is 1048.39ft, in the direction of 189.83° (True).

Disclaimer Notice

Cathedral Energy Services Ltd. makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document.

Cathedral Energy Services Ltd. are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.

AFFIRMATION

(Applicant must sign in front of a notary public)



Official Signature of Applicant Date
Gavin Rathjen 12-9-14

Subscribed and sworn to or affirmed before me this 9th day of
December, 20 14, in the county of Denver,
State of Colorado.

Nancy Barrett

Signature of Notary Public

9-18-16

Commission Expiration Date

