

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-8720

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, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☒ AMENDED REPORT

"AS DRILLED PLAT"
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35193	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 7437	⁵ Property Name ROELOFS A	⁶ Well Number 2B
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6347'

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
D	14	29N	8W		845'	NORTH	1129'	WEST	SAN JUAN

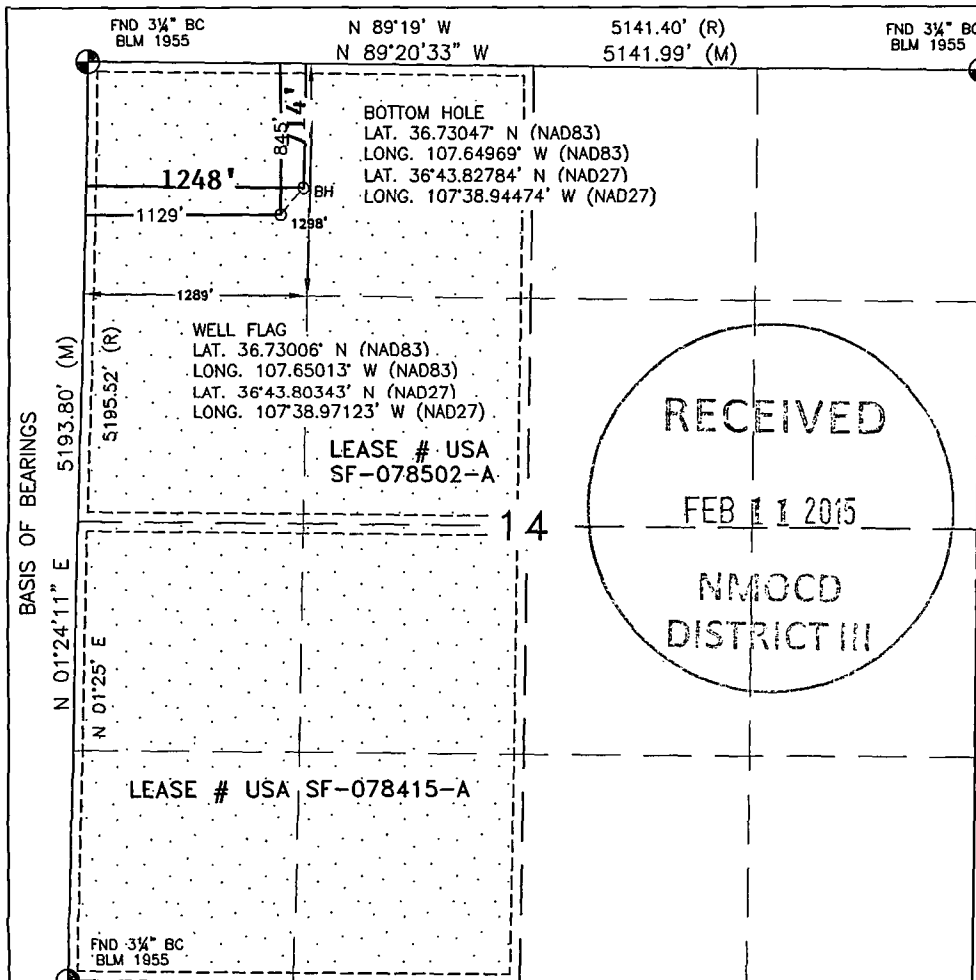
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	29N	8W		714	NORTH	1248	WEST	SAN JUAN

¹² Dedicated Acres 320.00 ACRES - W/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

16



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 2/11/2015
Signature Date

DENISE JOURNEY
Printed Name

Denise.Journey@conocophillips.com

E-mail Address

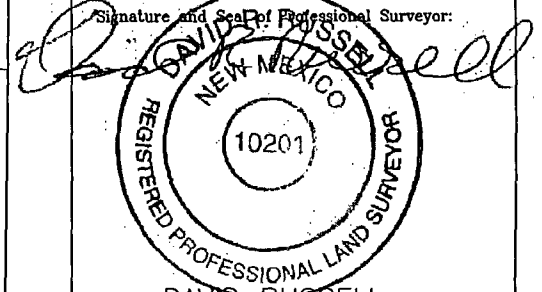
SURVEYOR CERTIFICATION

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.

APRIL 27, 2010

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

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OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

AS DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35193	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 18182	⁵ Property Name ROELOFS A	⁶ Well Number 2B
⁷ UGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6347'

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
D	14	29N	8W		845'	NORTH	1129'	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

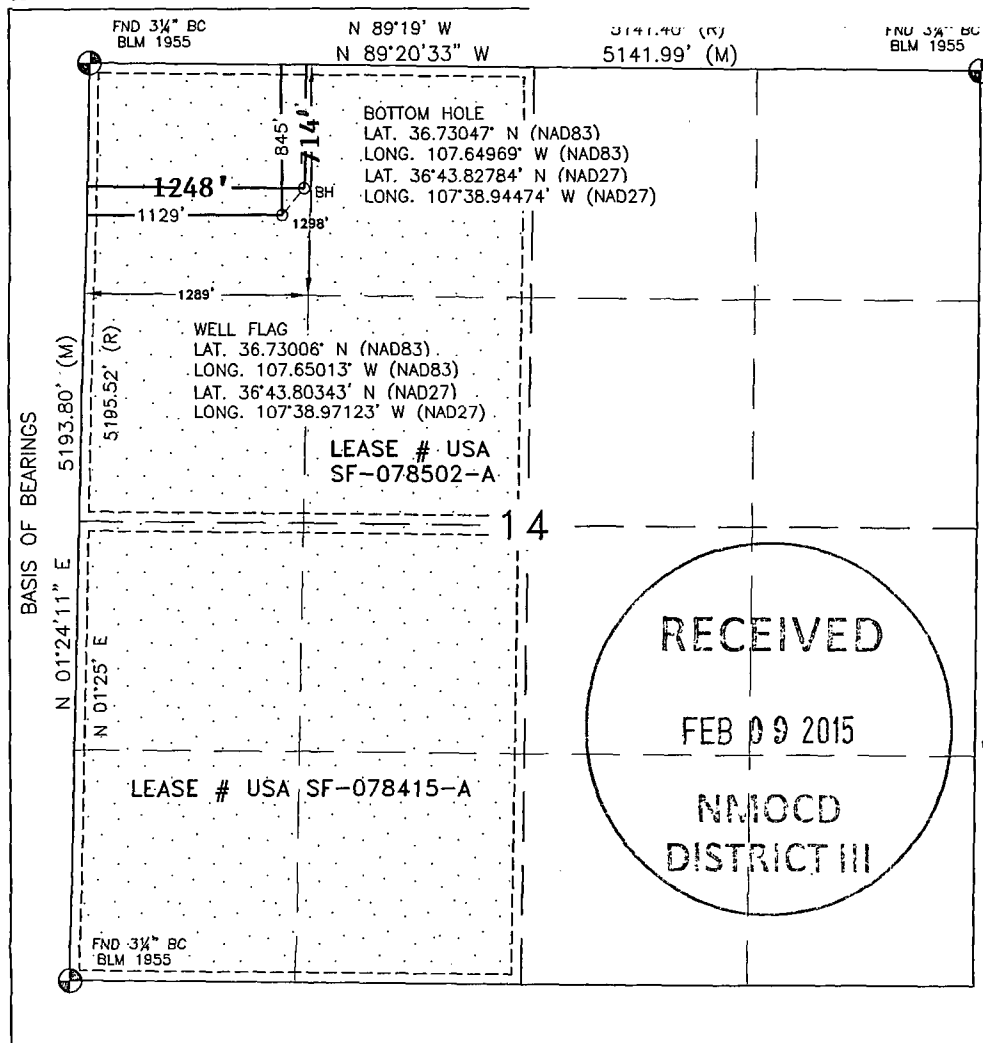
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	29N	8W		1248'	NORTH	1248'	WEST	SAN JUAN

¹² Dedicated Acres 320.00 ACRES - W/2	¹³ Joint or Infill No.
--	--------------------------------------

DENIED

NO ALLOWABLE WILL BE ASSIGNED T
OR A NON-STAND

16



RESTS HAVE BEEN CONSOLIDATED
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.

Denial Jimmy 2-9-15
Signature Date

Printed Name

E-mail Address

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.

APRIL 27, 2010

Date of Survey

Signature and Seal of Professional Surveyor:

David Russell
DAVID RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

Certificate Number

10201

pe

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName ROELOFS A #2B	API / UWI 3004535193	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 014-029N-008W-D	N/S Dist (ft) 845.00	N/S Ref FNL	E/W Dist (ft) 1,129.00	E/W Ref FWL

Date 12/15/2014	Description INCLINATION SURVEY
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Date	MD (ftKB)	Incl (")	Azm (")	Method	Survey Company
12/15/2014	134.00	0.25	0.00	Inc-Drop	MO-TE DRILLING INC
12/15/2014	235.00	0.50	0.00	Inc-Drop	MO-TE DRILLING INC
12/15/2014	5,675.00	1.50	0.00	Inc-Drop	Phoenix Services LLC

Date 1/1/2015	Description DIRECTIONAL SURVEY
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Date	MD (ftKB)	Incl (")	Azm (")	Method	Survey Company
1/2/2015	276.00	1.00	18.20	IncAzi-MWD	CATHEDRAL
1/2/2015	337.00	2.00	38.60	IncAzi-MWD	CATHEDRAL
1/2/2015	398.00	2.20	42.50	IncAzi-MWD	CATHEDRAL
1/2/2015	459.00	2.70	44.70	IncAzi-MWD	CATHEDRAL
1/2/2015	520.00	3.70	41.80	IncAzi-MWD	CATHEDRAL
1/2/2015	581.00	4.60	42.50	IncAzi-MWD	CATHEDRAL
1/2/2015	643.00	5.40	44.20	IncAzi-MWD	CATHEDRAL
1/2/2015	704.00	7.00	44.60	IncAzi-MWD	CATHEDRAL
1/2/2015	765.00	8.00	43.10	IncAzi-MWD	CATHEDRAL
1/2/2015	827.00	9.60	44.00	IncAzi-MWD	CATHEDRAL
1/2/2015	889.00	10.10	42.20	IncAzi-MWD	CATHEDRAL
1/2/2015	952.00	10.30	40.80	IncAzi-MWD	CATHEDRAL
1/2/2015	1,013.00	10.90	41.10	IncAzi-MWD	CATHEDRAL
1/2/2015	1,076.00	10.20	41.30	IncAzi-MWD	CATHEDRAL
1/2/2015	1,139.00	10.30	41.10	IncAzi-MWD	CATHEDRAL
1/2/2015	1,203.00	10.50	39.70	IncAzi-MWD	CATHEDRAL
1/2/2015	1,266.00	10.50	40.20	IncAzi-MWD	CATHEDRAL
1/2/2015	1,329.00	9.80	39.30	IncAzi-MWD	CATHEDRAL
1/2/2015	1,391.00	8.50	38.40	IncAzi-MWD	CATHEDRAL
1/2/2015	1,455.00	6.90	37.50	IncAzi-MWD	CATHEDRAL
1/3/2015	1,518.00	5.90	40.90	IncAzi-MWD	CATHEDRAL
1/3/2015	1,582.00	4.80	39.20	IncAzi-MWD	CATHEDRAL
1/3/2015	1,646.00	2.80	47.90	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.

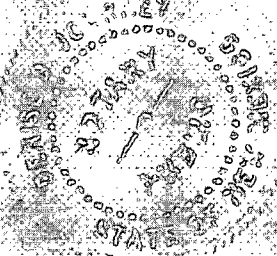
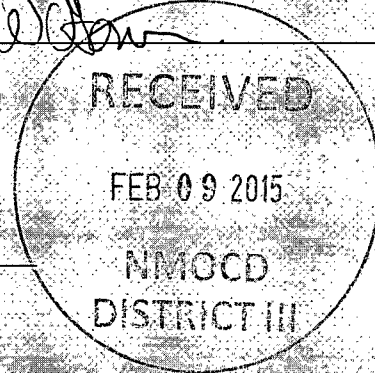
[Signature]

Subscribed and sworn to me this

9th day of February

[Signature: Daniel D. Journey]

Notary Public in and for San Juan County, New Mexico



My Commission expires

5/26/2015

Survey Data					
Date	MD (ftKB)	Incl(°)	Azm (°)	Method	Survey Company
1/3/2015	1,710.00	2.00	68.90	IncAzi-MWD	CATHEDRAL
1/3/2015	1,773.00	1.90	71.80	IncAzi-MWD	CATHEDRAL
1/3/2015	1,836.00	1.70	68.70	IncAzi-MWD	CATHEDRAL
1/3/2015	1,901.00	1.50	65.60	IncAzi-MWD	CATHEDRAL
1/3/2015	1,965.00	1.10	72.20	IncAzi-MWD	CATHEDRAL
1/3/2015	2,028.00	1.10	68.10	IncAzi-MWD	CATHEDRAL
1/3/2015	2,093.00	1.20	66.30	IncAzi-MWD	CATHEDRAL
1/3/2015	2,157.00	1.20	68.00	IncAzi-MWD	CATHEDRAL
1/3/2015	2,220.00	0.60	103.80	IncAzi-MWD	CATHEDRAL
1/3/2015	2,284.00	0.30	180.70	IncAzi-MWD	CATHEDRAL
1/3/2015	2,348.00	0.20	220.40	IncAzi-MWD	CATHEDRAL
1/3/2015	2,412.00	0.10	210.70	IncAzi-MWD	CATHEDRAL
1/3/2015	2,476.00	0.40	228.60	IncAzi-MWD	CATHEDRAL
1/3/2015	2,539.00	0.30	240.00	IncAzi-MWD	CATHEDRAL
1/3/2015	2,603.00	0.40	249.90	IncAzi-MWD	CATHEDRAL
1/3/2015	2,668.00	0.40	224.20	IncAzi-MWD	CATHEDRAL
1/3/2015	2,731.00	0.40	212.20	IncAzi-MWD	CATHEDRAL
1/3/2015	2,795.00	0.40	207.50	IncAzi-MWD	CATHEDRAL
1/3/2015	2,859.00	0.40	235.20	IncAzi-MWD	CATHEDRAL
1/3/2015	2,923.00	0.50	211.60	IncAzi-MWD	CATHEDRAL
1/3/2015	2,987.00	0.60	237.40	IncAzi-MWD	CATHEDRAL
1/3/2015	3,051.00	0.70	239.60	IncAzi-MWD	CATHEDRAL
1/3/2015	3,115.00	0.70	262.80	IncAzi-MWD	CATHEDRAL
1/3/2015	3,178.00	0.70	262.00	IncAzi-MWD	CATHEDRAL
1/3/2015	3,242.00	0.70	261.00	IncAzi-MWD	CATHEDRAL
1/3/2015	3,307.00	0.80	260.80	IncAzi-MWD	CATHEDRAL
1/3/2015	3,338.00	0.70	259.90	IncAzi-MWD	CATHEDRAL
1/3/2015	3,390.00	0.70	259.90	Projection	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 _____

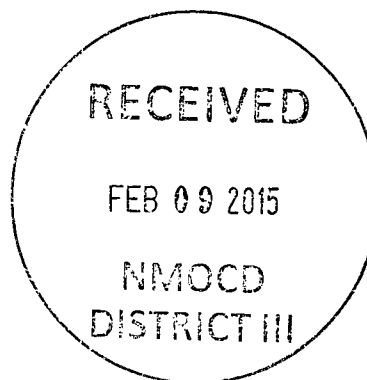
Notary Public in and for San Juan County, New Mexico

My Commission expires _____



**Conoco Phillips
San Juan County, NM
S14-T29N-R8W
ROELOFS A #2B
Build and Drop**

**Job No. 145505
Survey Date: 31 December 2014**



***Cathedral Energy Services Ltd.
Survey Report***

02 January 2015

Surface Coordinates: +2085048.08, +553865.17 (36.73005700° N, 107.64952100° W)
Grid Coordinate System: NAD27 New Mexico State Planes, Western Zone, US Foot

Surface Coordinates relative to Map Coordinates: +2085011.35, +553757.52 (True)
Surface Coordinates relative to S14-T29N-R8W: 0.00, 0.00 (True)

RKB Elevation: 6364.00ft above Mean Sea Level
RKB Elevation: 17.00ft above Ground Level

RKB Elevation: 17.00ft above Ground Level
Ground Level: 6347.00ft

Survey Ref: svy292
Date of Survey: 31 December 2014



**CATHEDRAL****Conoco Phillips
San Juan County, NM****Survey Report for S14-T29N-R8W, ROELOFS A #2B, Build and Drop**

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	0.00	0.00	
276.00	1.00	18.20	275.99	+2.29	+0.75	2.22	0.36
337.00	2.00	38.60	336.96	+3.63	+1.58	3.77	1.83
398.00	2.20	42.50	397.92	+5.32	+3.04	6.01	0.40
459.00	2.70	44.70	458.87	+7.21	+4.84	8.61	0.83
520.00	3.70	41.80	519.77	+9.69	+7.16	12.01	1.66
581.00	4.60	42.50	580.61	+12.96	+10.13	16.43	1.48
643.00	5.40	44.20	642.37	+16.89	+13.84	21.82	1.31
704.00	7.00	44.60	703.02	+21.59	+18.45	28.40	2.62
765.00	8.00	43.10	763.49	+27.34	+23.96	36.35	1.67
827.00	9.60	44.00	824.76	+34.21	+30.50	45.83	2.59
889.00	10.10	42.20	885.85	+41.96	+37.74	56.43	0.95
952.00	10.30	40.80	947.85	+50.31	+45.14	67.58	0.51
1013.00	10.90	41.10	1007.81	+58.79	+52.49	78.81	0.99
1076.00	10.20	41.30	1069.75	+67.47	+60.09	90.34	1.11
1139.00	10.30	41.10	1131.74	+75.90	+67.47	101.55	0.17
1203.00	10.50	39.70	1194.69	+84.70	+74.96	113.10	0.50
1266.00	10.50	40.20	1256.63	+93.50	+82.33	124.58	0.14
1329.00	9.80	39.30	1318.65	+102.03	+89.43	135.68	1.14
1391.00	8.50	38.40	1379.86	+109.71	+95.62	145.53	2.11
1455.00	6.90	37.50	1443.28	+116.47	+100.90	154.09	2.51
1518.00	5.90	40.90	1505.89	+121.92	+105.32	161.11	1.70
1582.00	4.80	39.20	1569.61	+126.48	+109.17	167.07	1.74
1646.00	2.80	47.90	1633.46	+129.60	+112.02	171.30	3.24
1710.00	2.00	68.90	1697.41	+131.05	+114.22	173.84	1.84
1773.00	1.90	71.80	1760.37	+131.77	+116.24	175.71	0.22
1836.00	1.70	68.70	1823.34	+132.44	+118.10	177.44	0.35
1901.00	1.50	65.60	1888.31	+133.14	+119.78	179.07	0.34
1965.00	1.10	72.20	1952.30	+133.67	+121.12	180.36	0.67
2028.00	1.10	68.10	2015.29	+134.08	+122.26	181.42	0.12
2093.00	1.20	66.30	2080.27	+134.59	+123.46	182.59	0.16
2157.00	1.20	68.00	2144.26	+135.11	+124.70	183.79	0.06
2220.00	0.60	103.80	2207.25	+135.28	+125.63	184.53	1.26
2284.00	0.30	180.70	2271.25	+135.03	+125.95	184.56	0.95
2348.00	0.20	220.40	2335.25	+134.78	+125.88	184.32	0.30
2412.00	0.10	210.70	2399.25	+134.65	+125.78	184.15	0.16
2476.00	0.40	228.60	2463.25	+134.45	+125.58	183.88	0.48
2539.00	0.30	240.00	2526.25	+134.22	+125.27	183.50	0.19
2603.00	0.40	249.90	2590.25	+134.06	+124.92	183.15	0.18
2668.00	0.40	224.20	2655.24	+133.82	+124.55	182.72	0.27
2731.00	0.40	212.20	2718.24	+133.48	+124.28	182.29	0.13
2795.00	0.40	207.50	2782.24	+133.09	+124.06	181.85	0.05
2859.00	0.40	235.20	2846.24	+132.76	+123.77	181.41	0.30
2923.00	0.50	211.60	2910.24	+132.40	+123.44	180.92	0.33
2987.00	0.60	237.40	2974.23	+131.98	+123.01	180.32	0.41
3051.00	0.70	239.60	3038.23	+131.60	+122.39	179.63	0.16
3115.00	0.70	262.80	3102.23	+131.36	+121.67	178.97	0.44
3178.00	0.70	262.00	3165.22	+131.25	+120.90	178.39	0.02
3242.00	0.70	261.00	3229.22	+131.14	+120.13	177.79	0.02
3307.00	0.80	260.80	3294.21	+131.00	+119.29	177.14	0.15
3338.00	0.70	259.90	3325.21	+130.94	+118.89	176.83	0.32



CATHEDRAL

Conoco Phillips
San Juan County, NM

Survey Report for S14-T29N-R8W, ROELOFS A #2B, Build and Drop

Survey Depth (ft)	Incl. (°)	(True) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
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Bit Projection

3390.00	0.70	259.90	3377.20	+130.82	+118.26	176.33	0.00
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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 RKB. Northings and Eastings are relative to S14-T29N-R8W.

The dogleg severity is in Degrees per 100 feet (US Survey).
Vertical Section is from S14-T29N-R8W calculated along an azimuth of 41.15° (True).

Based upon minimum curvature calculations, at a measured depth of 3338.00ft,
the bottom hole displacement is 176.86ft, in the direction of 42.24° (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

1/12/15

Date

Subscribed and sworn to or affirmed before me this 12th day of
January, 2015, in the county of Denver,
State of Colorado.

Nancy Barrett

Signature of Notary Public

9/18/16

Commission Expiration Date

