

AS Drilled Plat

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

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

Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35415		² Pool Code 71599/72319		³ Pool Name BASIN DAKOTA / BLANCO MEASVERDE	
⁴ Property Code 31814		⁵ Property Name JACKSON COM		⁶ Well Number 1N	
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 6610	

¹⁰ SURFACE LOCATION									
UL or lot no. L	Section 9	Township 28-N	Range 9-W	Lot Idn 4	Feet from the 1738	North/South line SOUTH	Feet from the 15	East/West line WEST	County SAN JUAN

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. L	Section 9	Township 28-N	Range 9-W	Lot Idn 4	Feet from the 1861'	North/South line SOUTH	Feet from the 1002'	East/West line WEST	County SAN JUAN

¹² Dedicated Acres 340.52 - DK 272.08 - MV	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-1814 DK
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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

WELL FLAG
NAD 83
LAT: 36.674019° N
LONG: 107.803059° W
NAD 27
LAT: 36°40.440782' N
LONG: 107°48.146568' W

DAKOTA LEASE (340.52)

MESAVERDE LEASE (272.08) (ALL SECTION 9)

LOT 4 LOT 3 LOT 2 LOT 1 LOT 3 LOT 2 LOT 1

SECTION 8 SECTION 9

USA NM-01772-A USA NM-04202 USA NM-04202 USA NM-04202

N 0°03' W 2244.0' (R)
N 0°17'25" W 2249.5' (M)

N 89°56' W 2633.4' (R)
N 89°54'52" W 2634.2' (M)

BOTTOM HOLE
NAD 83
LAT: 36.673466° N
LONG: 107.799629° W
NAD 27
LAT: 36°40.407567' N
LONG: 107°47.940785' W

BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.

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.

Patsy Clugston 2-9-15
Signature Date
Patsy Clugston

Printed Name

Staff Regulatory Tech
Title and E-mail Address
Patsy.L.Clugston@conocophillips.com

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.

Date of Survey: 10/19/10
Signature and Seal of Professional Surveyor:

Henry P. Broadhurst
HENRY P. BROADHURST
NEW MEXICO
PROFESSIONAL SURVEYOR
11393

Certificate Number: NM 11393

Operator CONOCOPHILLIPS COMPANY	Legal WellName JACKSON COM #1N	API / UWI 3004535415	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 009-028N-009W-L	N/S Dist (ft) 1,738.00	N/S Ref FSL	E/W Dist (ft) 15.00	E/W Ref FWL

Date 12/11/2014	Description INCLINATION SURVEY
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Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/11/2014	171.00	0.10	0.00	Inc-Drop	MO-TE DRILLING INC
12/11/2014	331.00	0.80	0.00	Inc-Drop	MO-TE DRILLING INC
12/11/2014	470.00	0.70	0.00	Inc-Drop	MO-TE DRILLING INC
12/31/2014	7,594.00	2.00	0.00	Inc-Drop	Phoenix Services LLC

Date 12/20/2014	Description DIRECTIONAL SURVEY
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Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
12/21/2014	490.00	1.10	309.40	IncAzi-MWD	CATHEDRAL
12/21/2014	521.00	0.90	326.20	IncAzi-MWD	CATHEDRAL
12/21/2014	551.00	0.80	11.70	IncAzi-MWD	CATHEDRAL
12/22/2014	581.00	1.20	38.40	IncAzi-MWD	CATHEDRAL
12/22/2014	612.00	1.60	45.90	IncAzi-MWD	CATHEDRAL
12/22/2014	642.00	2.30	58.40	IncAzi-MWD	CATHEDRAL
12/22/2014	673.00	2.90	67.20	IncAzi-MWD	CATHEDRAL
12/22/2014	704.00	3.80	75.50	IncAzi-MWD	CATHEDRAL
12/22/2014	735.00	4.90	78.30	IncAzi-MWD	CATHEDRAL
12/22/2014	765.00	5.80	80.50	IncAzi-MWD	CATHEDRAL
12/22/2014	796.00	6.90	81.20	IncAzi-MWD	CATHEDRAL
12/22/2014	827.00	7.80	81.90	IncAzi-MWD	CATHEDRAL
12/22/2014	858.00	8.50	83.00	IncAzi-MWD	CATHEDRAL
12/22/2014	889.00	9.60	85.70	IncAzi-MWD	CATHEDRAL
12/22/2014	920.00	9.80	87.00	IncAzi-MWD	CATHEDRAL
12/22/2014	950.00	10.60	87.10	IncAzi-MWD	CATHEDRAL
12/22/2014	981.00	11.20	85.80	IncAzi-MWD	CATHEDRAL
12/22/2014	1,012.00	11.80	86.80	IncAzi-MWD	CATHEDRAL
12/22/2014	1,044.00	11.60	86.10	IncAzi-MWD	CATHEDRAL
12/22/2014	1,075.00	12.00	84.60	IncAzi-MWD	CATHEDRAL
12/22/2014	1,107.00	12.00	84.00	IncAzi-MWD	CATHEDRAL
12/22/2014	1,138.00	12.70	83.90	IncAzi-MWD	CATHEDRAL
12/22/2014	1,170.00	13.30	83.30	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.

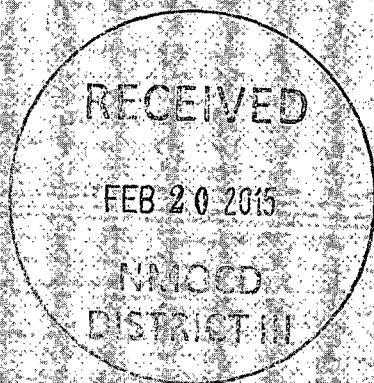
[Signature]

Subscribed and sworn to me this 1/23/15

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/16



Survey Data

Date	MD (ftKB)	Incl. (°)	Azm. (°)	Method	Survey Company
12/22/2014	1,202.00	14.10	83.30	IncAzi-MWD	CATHEDRAL
12/22/2014	1,233.00	14.60	84.80	IncAzi-MWD	CATHEDRAL
12/22/2014	1,265.00	15.30	85.70	IncAzi-MWD	CATHEDRAL
12/22/2014	1,297.00	16.00	85.70	IncAzi-MWD	CATHEDRAL
12/22/2014	1,328.00	16.40	84.50	IncAzi-MWD	CATHEDRAL
12/22/2014	1,360.00	16.70	85.00	IncAzi-MWD	CATHEDRAL
12/22/2014	1,392.00	17.00	83.90	IncAzi-MWD	CATHEDRAL
12/22/2014	1,424.00	17.80	84.00	IncAzi-MWD	CATHEDRAL
12/22/2014	1,456.00	18.10	83.50	IncAzi-MWD	CATHEDRAL
12/22/2014	1,487.00	17.90	83.80	IncAzi-MWD	CATHEDRAL
12/22/2014	1,519.00	18.40	85.20	IncAzi-MWD	CATHEDRAL
12/22/2014	1,551.00	18.90	84.40	IncAzi-MWD	CATHEDRAL
12/22/2014	1,583.00	19.30	85.00	IncAzi-MWD	CATHEDRAL
12/22/2014	1,614.00	19.90	85.60	IncAzi-MWD	CATHEDRAL
12/22/2014	1,646.00	20.30	83.80	IncAzi-MWD	CATHEDRAL
12/22/2014	1,710.00	21.40	82.30	IncAzi-MWD	CATHEDRAL
12/22/2014	1,774.00	22.60	82.00	IncAzi-MWD	CATHEDRAL
12/22/2014	1,837.00	22.70	83.20	IncAzi-MWD	CATHEDRAL
12/22/2014	1,901.00	22.90	82.30	IncAzi-MWD	CATHEDRAL
12/22/2014	1,965.00	23.00	84.10	IncAzi-MWD	CATHEDRAL
12/22/2014	2,029.00	23.10	83.30	IncAzi-MWD	CATHEDRAL
12/22/2014	2,093.00	21.50	85.40	IncAzi-MWD	CATHEDRAL
12/22/2014	2,157.00	21.10	85.20	IncAzi-MWD	CATHEDRAL
12/22/2014	2,221.00	21.50	85.00	IncAzi-MWD	CATHEDRAL
12/22/2014	2,285.00	21.70	84.70	IncAzi-MWD	CATHEDRAL
12/22/2014	2,349.00	21.70	84.00	IncAzi-MWD	CATHEDRAL
12/22/2014	2,413.00	20.80	83.80	IncAzi-MWD	CATHEDRAL
12/22/2014	2,476.00	21.20	84.30	IncAzi-MWD	CATHEDRAL
12/22/2014	2,540.00	20.80	84.50	IncAzi-MWD	CATHEDRAL
12/23/2014	2,604.00	20.70	83.50	IncAzi-MWD	CATHEDRAL
12/23/2014	2,668.00	20.80	82.30	IncAzi-MWD	CATHEDRAL
12/23/2014	2,733.00	21.50	81.60	IncAzi-MWD	CATHEDRAL
12/23/2014	2,796.00	20.50	80.70	IncAzi-MWD	CATHEDRAL
12/23/2014	2,860.00	18.90	80.90	IncAzi-MWD	CATHEDRAL
12/23/2014	2,924.00	18.50	80.90	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.



Subscribed and sworn to me this 1/23/15



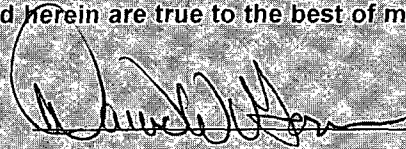
Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/16



Survey Data						
Date	MD. (ftKB)	Incl. (°)	Azm. (°)	Method	Survey Company	
12/23/2014	2,988.00	17.30	81.70	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,052.00	17.00	84.00	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,116.00	16.90	83.30	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,180.00	16.10	82.90	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,243.00	14.30	81.90	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,307.00	13.60	80.90	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,371.00	13.40	82.30	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,434.00	12.30	84.30	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,498.00	11.90	84.50	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,562.00	13.40	86.70	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,625.00	13.90	84.30	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,689.00	14.30	81.60	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,753.00	13.00	81.60	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,817.00	11.20	79.50	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,880.00	9.50	80.20	IncAzi-MWD	CATHEDRAL	
12/23/2014	3,945.00	7.50	77.50	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,008.00	6.50	75.10	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,072.00	6.20	77.70	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,135.00	5.60	74.70	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,200.00	5.70	74.00	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,263.00	5.20	74.30	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,327.00	4.90	76.00	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,391.00	4.70	74.00	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,455.00	3.60	81.10	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,518.00	2.40	88.00	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,578.00	1.90	97.00	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,645.00	1.80	96.90	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,709.00	1.80	108.90	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,773.00	1.80	113.70	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,836.00	1.60	99.50	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,900.00	1.50	97.30	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,934.00	1.70	100.40	IncAzi-MWD	CATHEDRAL	
12/23/2014	4,986.00	1.70	100.40	IncAzi-MWD	CATHEDRAL PRO	

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.



Subscribed and sworn to me this 1/23/15



Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/16

**Conoco Phillips
San Juan Basin
Sec9-T28N-R9W
Jackson Com 1N
BHA #1**

API- 30-045-35415

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

23 December 2014

Surface Coordinates: 2064770.55 N, 2733154.60 E (36° 40' 27.5772" N, 107° 47' 56.4648" W)
Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone

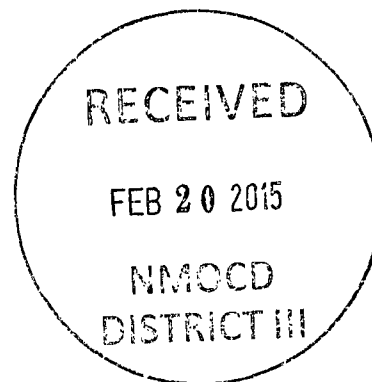
Surface Coordinates relative to Sec9-T28N-R9W: 0.00 N, 0.00 E (True)

RKB Elevation: 6027.00ft above Mean Sea Level
RKB Elevation: 17.00ft above San Juan Basin

RKB Elevation: 17.00ft above Ground Level
Ground Level: 6010.00ft

Survey Ref: svy178
Date of Survey: 20 December 2014

[Signature]



Survey Report for Sec9-T28N-R9W, Jackson Com 1N, 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	
490.00	1.10	309.40	489.97	2.99 N	3.63 W	-3.27	0.224
521.00	0.90	326.20	520.97	3.38 N	4.00 W	-3.59	1.138
551.00	0.80	11.70	550.96	3.78 N	4.09 W	-3.63	2.213
581.00	1.20	38.40	580.96	4.23 N	3.85 W	-3.35	2.013
612.00	1.60	45.90	611.95	4.78 N	3.34 W	-2.77	1.417
642.00	2.30	58.40	641.93	5.39 N	2.53 W	-1.90	2.717
673.00	2.90	67.20	672.90	6.02 N	1.27 W	-0.58	2.319
704.00	3.80	75.50	703.85	6.58 N	0.45 E	1.19	3.291
735.00	4.90	78.30	734.76	7.11 N	2.74 E	3.52	3.613
765.00	5.80	80.50	764.63	7.62 N	5.49 E	6.31	3.076
796.00	6.90	81.20	795.43	8.16 N	8.87 E	9.74	3.557
827.00	7.80	81.90	826.18	8.74 N	12.79 E	13.70	2.918
858.00	8.50	83.00	856.87	9.32 N	17.15 E	18.10	2.313
889.00	9.60	85.70	887.48	9.79 N	22.00 E	22.97	3.803
920.00	9.80	87.00	918.04	10.12 N	27.21 E	28.19	0.957
950.00	10.60	87.10	947.56	10.40 N	32.52 E	33.49	2.667
981.00	11.20	85.80	978.00	10.76 N	38.37 E	39.34	2.092
1012.00	11.80	86.80	1008.38	11.16 N	44.54 E	45.52	2.039
1044.00	11.60	86.10	1039.72	11.56 N	51.01 E	52.00	0.766
1075.00	12.00	84.60	1070.06	12.08 N	57.33 E	58.33	1.626
1107.00	12.00	84.00	1101.36	12.74 N	63.95 E	64.98	0.390
1138.00	12.70	83.90	1131.64	13.44 N	70.55 E	71.61	2.259
1170.00	13.30	83.30	1162.82	14.24 N	77.70 E	78.81	1.922
1202.00	14.10	83.30	1193.91	15.12 N	85.23 E	86.39	2.500
1233.00	14.60	84.80	1223.95	15.92 N	92.87 E	94.07	2.010
1265.00	15.30	85.70	1254.86	16.60 N	101.09 E	102.32	2.305
1297.00	16.00	85.70	1285.68	17.25 N	109.70 E	110.95	2.188
1328.00	16.40	84.50	1315.45	17.99 N	118.32 E	119.60	1.683
1360.00	16.70	85.00	1346.12	18.82 N	127.40 E	128.71	1.038
1392.00	17.00	83.90	1376.75	19.72 N	136.63 E	137.98	1.368
1424.00	17.80	84.00	1407.28	20.73 N	146.14 E	147.55	2.502
1456.00	18.10	83.50	1437.72	21.80 N	155.95 E	157.41	1.054
1487.00	17.90	83.80	1467.21	22.86 N	165.47 E	166.99	0.711
1519.00	18.40	85.20	1497.61	23.81 N	175.39 E	176.96	2.073
1551.00	18.90	84.40	1527.93	24.74 N	185.58 E	187.19	1.755
1583.00	19.30	85.00	1558.17	25.71 N	196.01 E	197.66	1.392
1614.00	19.90	85.60	1587.38	26.56 N	206.37 E	208.05	2.041
1646.00	20.30	83.80	1617.43	27.58 N	217.32 E	219.04	2.302
1710.00	21.40	82.30	1677.24	30.34 N	239.93 E	241.82	1.910
1774.00	22.60	82.00	1736.57	33.62 N	263.68 E	265.79	1.883
1837.00	22.70	83.20	1794.72	36.74 N	287.73 E	290.05	0.750
1901.00	22.90	82.30	1853.71	39.87 N	312.34 E	314.84	0.628
1965.00	23.00	84.10	1912.65	42.83 N	337.11 E	339.80	1.108
2029.00	23.10	83.30	1971.54	45.58 N	362.02 E	364.85	0.514
2093.00	21.50	85.40	2030.75	47.98 N	386.18 E	389.13	2.793
2157.00	21.10	85.20	2090.38	49.89 N	409.35 E	412.37	0.635
2221.00	21.50	85.00	2150.01	51.87 N	432.51 E	435.61	0.635
2285.00	21.70	84.70	2209.51	53.99 N	455.98 E	459.16	0.357
2349.00	21.70	84.00	2268.98	56.32 N	479.53 E	482.82	0.404

Survey Report for Sec9-T28N-R9W, Jackson Com 1N, BHA #1

Survey Depth (ft)	Incl. (°)	(True) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2413.00	20.80	83.80	2328.63	58.78 N	502.59 E	506.02	1.411
2476.00	21.20	84.30	2387.44	61.12 N	525.05 E	528.59	0.696
2540.00	20.80	84.50	2447.19	63.36 N	547.87 E	551.52	0.635
2604.00	20.70	83.50	2507.04	65.73 N	570.42 E	574.20	0.575
2668.00	20.80	82.30	2566.89	68.53 N	592.92 E	596.87	0.682
2733.00	21.50	81.60	2627.51	71.82 N	616.14 E	620.31	1.145
2796.00	20.50	80.70	2686.33	75.29 N	638.45 E	642.87	1.668
2860.00	18.90	80.90	2746.58	78.74 N	659.75 E	664.42	2.502
2924.00	18.50	80.90	2807.20	81.98 N	680.01 E	684.92	0.625
2988.00	17.30	81.70	2868.10	84.96 N	699.45 E	704.57	1.914
3052.00	17.00	84.00	2929.26	87.31 N	718.17 E	723.44	1.159
3116.00	16.90	83.30	2990.48	89.38 N	736.72 E	742.10	0.355
3180.00	16.10	82.90	3051.84	91.56 N	754.76 E	760.28	1.263
3243.00	14.30	81.90	3112.63	93.74 N	771.13 E	776.79	2.887
3307.00	13.60	80.90	3174.74	96.04 N	786.39 E	792.21	1.157
3371.00	13.40	82.30	3236.98	98.22 N	801.17 E	807.14	0.599
3434.00	12.30	84.30	3298.40	99.87 N	815.08 E	821.15	1.883
3498.00	11.90	84.50	3360.98	101.18 N	828.43 E	834.56	0.628
3562.00	13.40	86.70	3423.42	102.24 N	842.40 E	848.56	2.461
3625.00	13.90	84.30	3484.64	103.41 N	857.22 E	863.42	1.199
3689.00	14.30	81.60	3546.71	105.33 N	872.69 E	879.01	1.203
3753.00	13.00	81.60	3608.91	107.53 N	887.63 E	894.10	2.031
3817.00	11.20	79.50	3671.48	109.72 N	900.87 E	907.50	2.895
3880.00	9.50	80.20	3733.45	111.72 N	912.01 E	918.79	2.706
3945.00	7.50	77.50	3797.74	113.55 N	921.43 E	928.37	3.137
4008.00	6.50	75.10	3860.27	115.36 N	928.89 E	935.98	1.653
4072.00	6.20	77.70	3923.87	117.02 N	935.77 E	943.01	0.649
4135.00	5.60	74.70	3986.54	118.56 N	942.06 E	949.43	1.070
4200.00	5.70	74.00	4051.22	120.29 N	948.22 E	955.75	0.187
4263.00	5.20	74.30	4113.94	121.92 N	953.98 E	961.65	0.795
4327.00	4.90	76.00	4177.69	123.37 N	959.42 E	967.22	0.524
4391.00	4.70	74.00	4241.47	124.75 N	964.59 E	972.52	0.407
4455.00	3.60	81.10	4305.30	125.78 N	969.10 E	977.11	1.894
4518.00	2.40	88.00	4368.21	126.14 N	972.37 E	980.40	1.986
4578.00	1.90	97.00	4428.17	126.06 N	974.62 E	982.62	1.003
4645.00	1.80	96.90	4495.13	125.80 N	976.76 E	984.73	0.149
4709.00	1.80	108.90	4559.10	125.35 N	978.71 E	986.61	0.588
4773.00	1.80	113.70	4623.07	124.62 N	980.58 E	988.39	0.236
4836.00	1.60	99.50	4686.04	124.08 N	982.36 E	990.09	0.738
4900.00	1.50	97.30	4750.02	123.82 N	984.07 E	991.76	0.182
4934.00	1.70	100.40	4784.01	123.68 N	985.01 E	992.68	0.641
<u>Bit Projection</u>							
4986.00	1.70	100.40	4835.98	123.40 N	986.52 E	994.15	0.000



Survey Report for Sec9-T28N-R9W, Jackson Com 1N, BHA #1

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to Jackson Com 1N. Northings and Eastings are relative to Sec9-T28N-R9W.

The dogleg severity is in Degrees per 100 feet (US Survey).
Vertical Section is from Sec9-T28N-R9W calculated along an azimuth of 83.49° (True).

Based upon minimum curvature calculations, at a measured depth of 4934.00ft,
the bottom hole displacement is 992.74ft, in the direction of 82.84° (True).

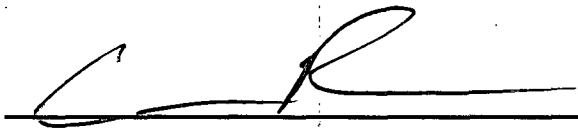
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AFFIRMATION

(Applicant must sign in front of a notary public)



Official Signature of Applicant

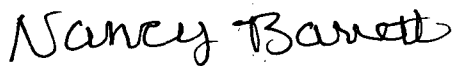
1/2/15

Date

Subscribed and sworn to or affirmed before me this 2nd day of

January, 20 15, in the county of Denver

State of Colorado.



Signature of Notary Public

9-18-16

Commission Expiration Date

