

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

AS DRILLED PLAT

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT
RCVD SEP 24 '10
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34711	*Pool Code 71629 / 71240	*Pool Name N. Aztec BASIN FRUITLAND COAL / FRUITLAND SAND
*Property Code 7411	*Property Name RANDLEMON	*Well Number 100
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 5728'

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
M	23	31N	11W		465	SOUTH	795	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	26	31N	11W		740'	NORTH	832'	WEST	SAN JUAN

¹² Dedicated Acres 320.0 Acres - (N/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

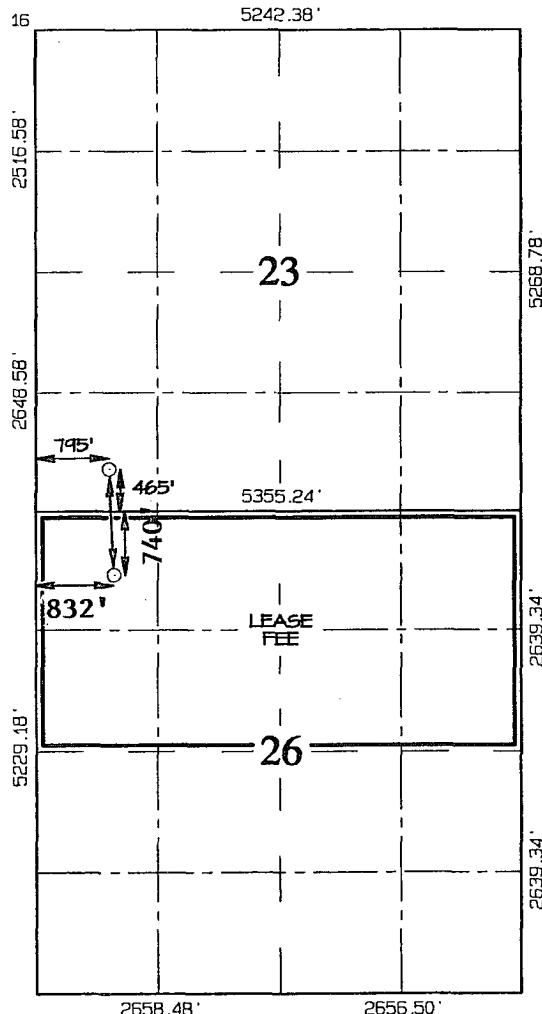
SURFACE LOCATION
LAT: 36°52.6885'N
LONG: 107°57.9747'W
DATUM: NAD1927

LAT: 36.87814°N
LONG: 107.96687°W
DATUM: NAD1983

502°05.9'E 1174.0'

BOTTOM-HOLE
LAT: 36°52.4951'N
LONG: 107°57.9655'W
DATUM: NAD1927

LAT: 36.87492°N
LONG: 107.96671°W
DATUM: NAD1983



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 9/23/10
Signature Date
Patsy Clugston
Printed Name

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 Revised: JULY 13, 2009
Survey Date: JANUARY 28, 2008

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
3/18/2009	1,421.00	47.61	IncAzi-MWD	H&B
3/18/2009	1,466.00	47.72	IncAzi-MWD	H&B
3/18/2009	1,511.00	47.07	IncAzi-MWD	H&B
3/18/2009	1,556.00	47.72	IncAzi-MWD	H&B
3/18/2009	1,601.00	47.97	IncAzi-MWD	H&B
3/18/2009	1,646.00	46.74	IncAzi-MWD	H&B
3/18/2009	1,691.00	46.41	IncAzi-MWD	H&B
3/18/2009	1,735.00	46.45	IncAzi-MWD	H&B
3/18/2009	1,781.00	46.52	IncAzi-MWD	H&B
3/18/2009	1,827.00	45.30	IncAzi-MWD	H&B
3/18/2009	1,870.00	43.86	IncAzi-MWD	H&B
3/18/2009	1,915.00	42.25	IncAzi-MWD	H&B
3/18/2009	1,964.00	39.81	IncAzi-MWD	H&B
3/18/2009	2,009.00	37.40	IncAzi-MWD	H&B
3/18/2009	2,054.00	34.69	IncAzi-MWD	H&B
3/18/2009	2,099.00	33.84	IncAzi-MWD	H&B
3/18/2009	2,144.00	32.91	IncAzi-MWD	H&B
3/18/2009	2,189.00	30.37	IncAzi-MWD	H&B
3/18/2009	2,234.00	27.62	IncAzi-MWD	H&B
3/18/2009	2,279.00	24.15	IncAzi-MWD	H&B
3/18/2009	2,324.00	21.71	IncAzi-MWD	H&B
3/18/2009	2,369.00	19.82	IncAzi-MWD	H&B
3/18/2009	2,414.00	17.80	IncAzi-MWD	H&B
3/18/2009	2,459.00	15.36	IncAzi-MWD	H&B
3/18/2009	2,504.00	11.82	IncAzi-MWD	H&B
3/18/2009	2,549.00	8.39	IncAzi-MWD	H&B
3/18/2009	2,595.00	5.71	IncAzi-MWD	H&B
3/18/2009	2,640.00	3.43	IncAzi-MWD	H&B
3/18/2009	2,685.00	2.31	IncAzi-MWD	H&B
3/18/2009	2,727.00	1.85	IncAzi-MWD	H&B
3/18/2009	2,772.00	1.93	IncAzi-MWD	H&B
3/18/2009	2,817.00	1.87	IncAzi-MWD	H&B
3/18/2009	2,862.00	1.91	IncAzi-MWD	H&B
3/18/2009	2,907.00	2.00	IncAzi-MWD	H&B
3/18/2009	2,930.00	2.20	IncAzi-MWD	H&B

RCVD SEP 24 '10

OIL CONS. DIV.

DIST. 3

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 9/23/10

Patricia L. Clayton

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/2/2012



COP Deviation Report

RANDLEMON #100

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName RANDLEMON #100	API / UWI 3004534711	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 023-031N-011W-M	N/S Dist (ft) 465.00	N/S Ref FSL	E/W Dist (ft) 795.00	E/W Ref FWL

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
3/7/2009	80.00	0.75	Inc-Drop	MOTE
3/17/2009	137.00	0.50	IncAzi-MWD	H&B
3/7/2009	170.00	1.00	Inc-Drop	MOTE
3/17/2009	199.00	0.55	IncAzi-MWD	H&B
3/17/2009	230.00	1.96	IncAzi-MWD	H&B
3/17/2009	261.00	4.33	IncAzi-MWD	H&B
3/17/2009	292.00	6.35	IncAzi-MWD	H&B
3/17/2009	323.00	8.39	IncAzi-MWD	H&B
3/17/2009	354.00	9.95	IncAzi-MWD	H&B
3/17/2009	384.00	11.47	IncAzi-MWD	H&B
3/17/2009	414.00	13.49	IncAzi-MWD	H&B
3/17/2009	444.00	15.25	IncAzi-MWD	H&B
3/17/2009	474.00	17.53	IncAzi-MWD	H&B
3/17/2009	505.00	18.61	IncAzi-MWD	H&B
3/17/2009	535.00	19.81	IncAzi-MWD	H&B
3/17/2009	565.00	21.47	IncAzi-MWD	H&B
3/18/2009	595.00	23.55	IncAzi-MWD	H&B
3/18/2009	626.00	24.90	IncAzi-MWD	H&B
3/18/2009	656.00	25.55	IncAzi-MWD	H&B
3/18/2009	701.00	27.88	IncAzi-MWD	H&B
3/18/2009	746.00	28.48	IncAzi-MWD	H&B
3/18/2009	790.00	29.70	IncAzi-MWD	H&B
3/18/2009	835.00	31.29	IncAzi-MWD	H&B
3/18/2009	880.00	32.21	IncAzi-MWD	H&B
3/18/2009	925.00	32.54	IncAzi-MWD	H&B
3/18/2009	974.00	33.57	IncAzi-MWD	H&B
3/18/2009	1,016.00	34.28	IncAzi-MWD	H&B
3/18/2009	1,061.00	35.05	IncAzi-MWD	H&B
3/18/2009	1,106.00	36.69	IncAzi-MWD	H&B
3/18/2009	1,151.00	38.87	IncAzi-MWD	H&B
3/18/2009	1,196.00	41.44	IncAzi-MWD	H&B
3/18/2009	1,242.00	43.87	IncAzi-MWD	H&B
3/18/2009	1,287.00	46.47	IncAzi-MWD	H&B
3/18/2009	1,332.00	47.74	IncAzi-MWD	H&B
3/18/2009	1,376.00	47.68	IncAzi-MWD	H&B

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

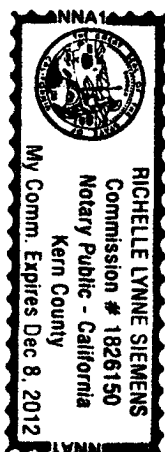
My Commission expires _____

HFB

Job Number: NM09601
 Company: BURLINGTON RES
 Lease/Well: RANDELMON 100
 Location: 23
 Rig Name: HP 282
 RKB: ☐
 G.L. or M.S.L.: ☐

State/Country: NEW MEXICO
 Declination: ☐
 Grid: ☐
 File name: C:\WINSERVE\NM09601.SVY
 Date/Time: 19-Mar-09 / 00:18
 Curve Name: ☐

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 177.90
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
137.00	.00	.00	137.00	.00	.00	.00	.00	.00	.00
137.00	.50	25.31	137.00	.54	.26	-.53	.60	25.31	.36
168.00	.68	196.35	168.00	.49	.26	-.48	.55	28.29	3.80
199.00	.55	123.96	199.00	.23	.33	-.21	.40	55.79	2.37
230.00	1.96	151.10	229.99	-.32	.71	.35	.78	114.22	4.81
261.00	4.33	154.81	260.94	-1.84	1.47	1.90	2.36	141.49	7.67
292.00	6.35	156.15	291.80	-4.47	2.66	4.57	5.20	149.26	6.53
323.00	8.39	160.35	322.55	-8.17	4.11	8.31	9.15	153.28	6.80
354.00	9.95	164.81	353.15	-12.88	5.57	13.08	14.04	156.60	5.53
384.00	11.47	169.05	382.63	-18.31	6.82	18.55	19.54	159.57	5.70

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		
							Distance FT	Direction Deg	Dogleg Severity Deg/100
414.00	13.49	172.94	411.92	-24.72	7.82	24.99	25.92	162.45	7.29
444.00	15.25	176.08	440.98	-32.13	8.52	32.42	33.24	165.15	6.41
474.00	17.53	179.90	469.76	-40.58	8.80	40.88	41.52	167.77	8.40
505.00	18.61	181.92	499.23	-50.19	8.64	50.48	50.93	170.24	4.03
535.00	19.81	182.43	527.56	-60.06	8.26	60.32	60.62	172.17	4.04
565.00	21.47	183.33	555.63	-70.62	7.73	70.85	71.04	173.76	5.63
595.00	23.55	182.36	583.34	-82.09	7.16	82.30	82.40	175.01	7.04
626.00	24.90	180.52	611.61	-94.80	6.85	94.99	95.05	175.87	4.99
656.00	25.55	176.87	638.75	-107.58	7.14	107.77	107.82	176.20	5.62
701.00	27.88	174.38	678.95	-127.74	8.70	127.98	128.04	176.10	5.74
746.00	28.48	174.59	718.61	-148.90	10.75	149.19	149.28	175.87	1.35
790.00	29.70	174.87	757.06	-170.20	12.71	170.55	170.67	175.73	2.79
835.00	31.29	176.17	795.84	-192.96	14.49	193.36	193.50	175.71	3.83
880.00	32.21	175.82	834.10	-216.58	16.14	217.03	217.18	175.74	2.09
925.00	32.54	176.37	872.11	-240.62	17.78	241.11	241.28	175.77	.98
974.00	33.57	177.44	913.18	-267.31	19.22	267.83	268.00	175.89	2.42
1016.00	34.28	179.02	948.03	-290.74	19.94	291.27	291.42	176.08	2.70
1061.00	35.05	178.78	985.04	-316.33	20.43	316.86	316.99	176.30	1.74
1106.00	36.69	177.20	1021.51	-342.68	21.37	343.23	343.34	176.43	4.18
1151.00	38.87	177.09	1057.07	-370.21	22.74	370.79	370.91	176.49	4.85
1196.00	41.44	177.18	1091.46	-399.19	24.19	399.81	399.92	176.53	5.71
1242.00	43.87	177.50	1125.29	-430.32	25.63	430.97	431.08	176.59	5.30
1287.00	46.47	178.21	1157.01	-462.21	26.82	462.88	462.99	176.68	5.89
1332.00	47.74	178.18	1187.64	-495.16	27.86	495.85	495.94	176.78	2.82
1376.00	47.68	177.57	1217.25	-527.69	29.07	528.40	528.49	176.85	1.03
1421.00	47.61	177.41	1247.57	-560.91	30.53	561.65	561.74	176.88	.31
1466.00	47.72	177.64	1277.87	-594.14	31.96	594.91	595.00	176.92	.45
1511.00	47.07	177.33	1308.33	-627.23	33.41	628.03	628.12	176.95	1.53
1556.00	47.72	177.53	1338.80	-660.32	34.90	661.15	661.24	176.97	1.48
1601.00	47.97	176.94	1369.00	-693.64	36.51	694.51	694.60	176.99	1.12

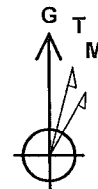
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
1646.00	46.74	178.12	1399.48	-726.71	37.94	727.61	727.70	177.01	3.35
1691.00	46.41	177.82	1430.42	-759.37	39.10	760.29	760.38	177.05	.88
1735.00	46.45	176.96	1460.74	-791.22	40.55	792.17	792.25	177.07	1.42
1781.00	46.52	177.29	1492.42	-824.53	42.22	825.53	825.61	177.07	.54
1827.00	45.30	178.53	1524.42	-857.55	43.43	858.56	858.65	177.10	3.28
1870.00	43.86	180.06	1555.05	-887.72	43.81	888.73	888.80	177.17	4.18
1915.00	42.25	181.20	1587.93	-918.44	43.47	919.42	919.47	177.29	3.97
1964.00	39.81	182.23	1624.89	-950.59	42.52	951.51	951.54	177.44	5.17
2009.00	37.40	183.15	1660.06	-978.64	41.21	979.49	979.50	177.59	5.51
2054.00	34.69	182.63	1696.44	-1005.08	39.87	1005.86	1005.87	177.73	6.06
2099.00	33.84	182.63	1733.63	-1030.39	38.70	1031.11	1031.11	177.85	1.89
2144.00	32.91	185.21	1771.21	-1055.08	37.02	1055.73	1055.73	177.99	3.77
2189.00	30.37	186.56	1809.52	-1078.56	34.61	1079.10	1079.11	178.16	5.86
2234.00	27.62	185.11	1848.87	-1100.25	32.38	1100.70	1100.73	178.31	6.31
2279.00	24.15	189.61	1889.36	-1119.73	29.91	1120.07	1120.13	178.47	8.86
2324.00	21.71	191.32	1930.80	-1136.97	26.74	1137.18	1137.28	178.65	5.62
2369.00	19.82	187.73	1972.87	-1152.69	24.08	1152.80	1152.94	178.80	5.06
2414.00	17.80	182.43	2015.47	-1167.12	22.76	1167.17	1167.35	178.88	5.88
2459.00	15.36	176.06	2058.60	-1179.95	22.88	1179.99	1180.17	178.89	6.75
2504.00	11.82	172.89	2102.33	-1190.47	23.86	1190.54	1190.71	178.85	8.04
2549.00	8.39	173.84	2146.63	-1198.31	24.79	1198.41	1198.56	178.82	7.63
2595.00	5.71	172.43	2192.28	-1203.91	25.45	1204.04	1204.18	178.79	5.84
2640.00	3.43	155.93	2237.13	-1207.36	26.29	1207.52	1207.65	178.75	5.80
2685.00	2.31	109.30	2282.08	-1208.89	27.70	1209.09	1209.21	178.69	5.54
2727.00	1.85	90.89	2324.05	-1209.18	29.17	1209.44	1209.53	178.62	1.92
2772.00	1.93	61.45	2369.03	-1208.83	30.57	1209.14	1209.22	178.55	2.14
2817.00	1.87	58.97	2414.01	-1208.09	31.86	1208.45	1208.51	178.49	.23
2862.00	1.91	61.58	2458.98	-1207.36	33.15	1207.76	1207.81	178.43	.21
2907.00	2.00	63.29	2503.96	-1206.65	34.51	1207.10	1207.14	178.36	.24
2930.00	2.20	61.69	2526.94	-1206.26	35.26	1206.74	1206.77	178.33	.91

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
2976.00	2.20	61.69	2572.91	-1205.42	36.81	1205.96	1205.98	178.25	.00

Projection to bit



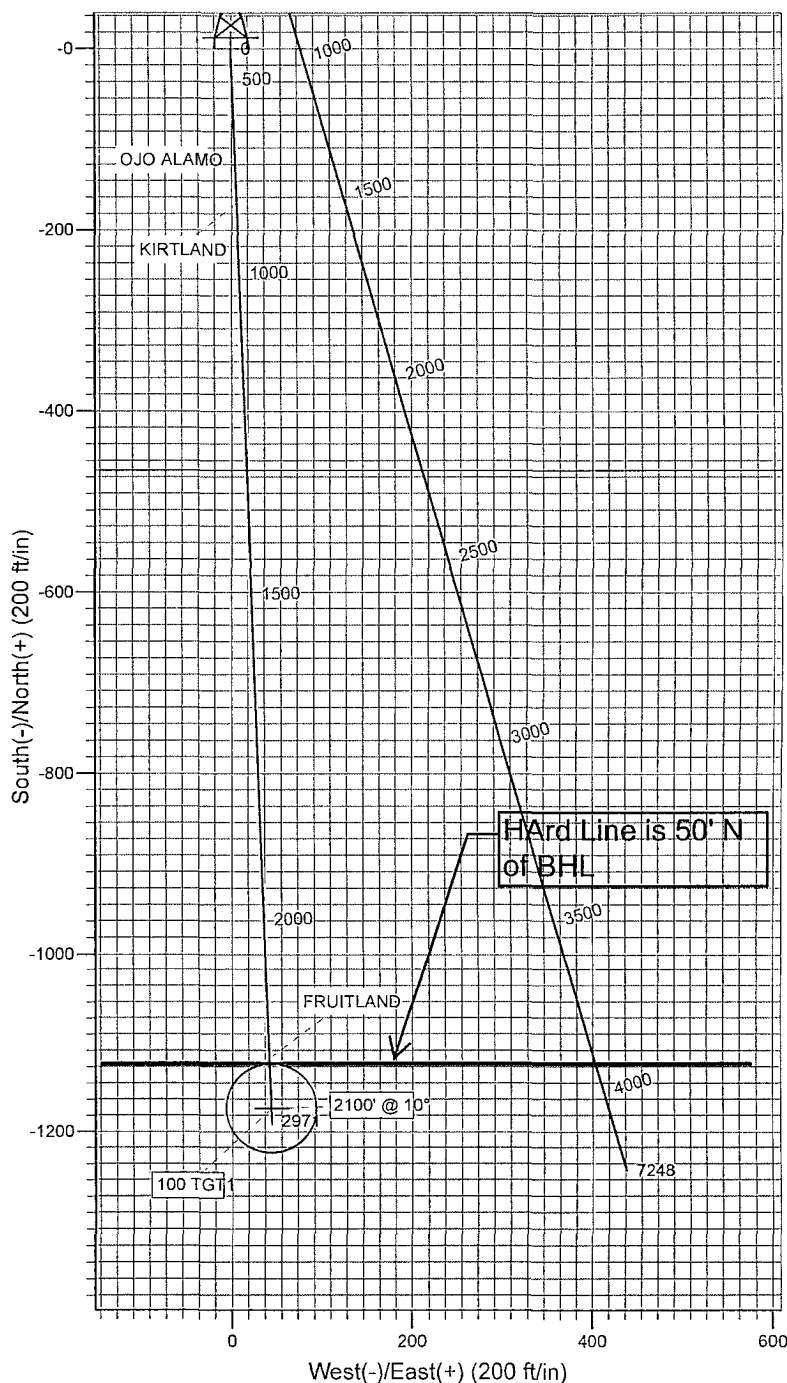
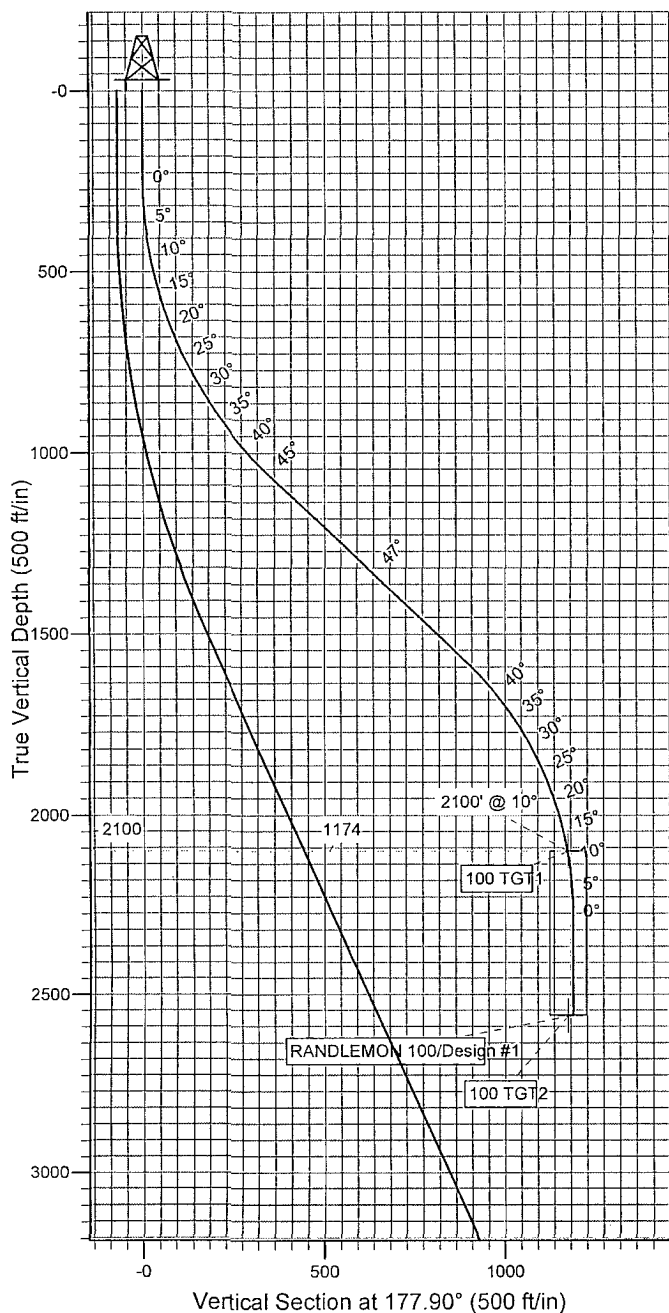
Project: San Juan Basin New Mexico
 Site: SECTION 23 T31N R11W
 Well: RANDLEMON 100
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to Grid North
 True North: 0.08°
 Magnetic North: 10.34°

Magnetic Field
 Strength: 51042.5snT
 Dip Angle: 63.61°
 Date: 2009/03/07
 Model: IGRF200510

KOP @ 238'
 DOGLEG RATE 5 & 6 DEG/100
 TARGET RADIUS IS 50'
 SEC 26 LEASE LINE IS 535' S OF SHL
 HARD LINE IS 50' N OF BHL



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
100 LEASE LINE	-2000.00	0.00	0.00	Polygon
100 TGT1	2100.00	-1173.61	43.12	Circle (Radius: 50.00)
100 TGT2	2559.00	-1173.61	43.12	Circle (Radius: 50.00)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	238.00	0.00	0.00	238.00	0.00	0.00	0.00	0.00	0.00	
3	1171.42	46.67	177.90	1071.57	-359.36	13.20	5.00	177.90	359.60	
4	1899.52	46.67	177.90	1571.18	-888.64	32.65	0.00	0.00	889.24	
5	2510.70	10.00	177.90	2100.00	-1173.61	43.12	6.00	180.00	1174.40	
6	2677.37	0.00	0.00	2265.82	-1188.11	43.65	6.00	180.00	188.91	
7	2970.55	0.00	0.00	2559.00	-1188.11	43.65	0.00	0.00	188.91	100 TGT2

