

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

Energy, Minerals & Natural Resources Department

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

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

☐ AMENDED REPORT
RCVD DEC 9 '08
OIL CONS. DIV.
DIST. 3

"As drilled Plat"

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29736		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 31328		*Property Name SAN JUAN 31-6 UNIT			*Well Number 3M
*GRID No. 217817		*Operator Name CONOCOPHILLIPS COMPANY			*Elevation 6291'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
0	6	30N	6W		510	SOUTH	2015	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
P	6	30N	6W		1225'	SOUTH	763'	EAST	RIO ARriba
*Dedicated Acres 319.55 Acres - E/2					*Joint or Infill	*Consolidation Code	*Order No.		

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

12-15-08

15

5280.00'

1320.00'

1310.10'

1320.00'

2640.00'

2640.00'

5285.28'

510'

2015'

1225'

763'

1508.1'

N60°36'2"E

RECEIVED
MAY 2007
OIL CONS. DIV. DIST 3

LEASE
NM-012735

6

LOT 11

LOT 10

LOT 9

LOT 8

12-15-08

1320.00'

1310.10'

1320.00'

2640.00'

5280.00'

5285.28'

510'

2015'

1225'

763'

1508.1'

N60°36'2"E

SURFACE LOCATION
LAT: 36°50.1426' N
LONG: 107°30.0905' W
DATUM: NAD83

BOTTOM-HOLE LOCATION
LAT: 36°50.2639' N
LONG: 107°29.8206' W
DATUM: NAD27

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.
Signature: SASHA NEWMAN
Date: 12-8-08
Printed Name: SASHA NEWMAN

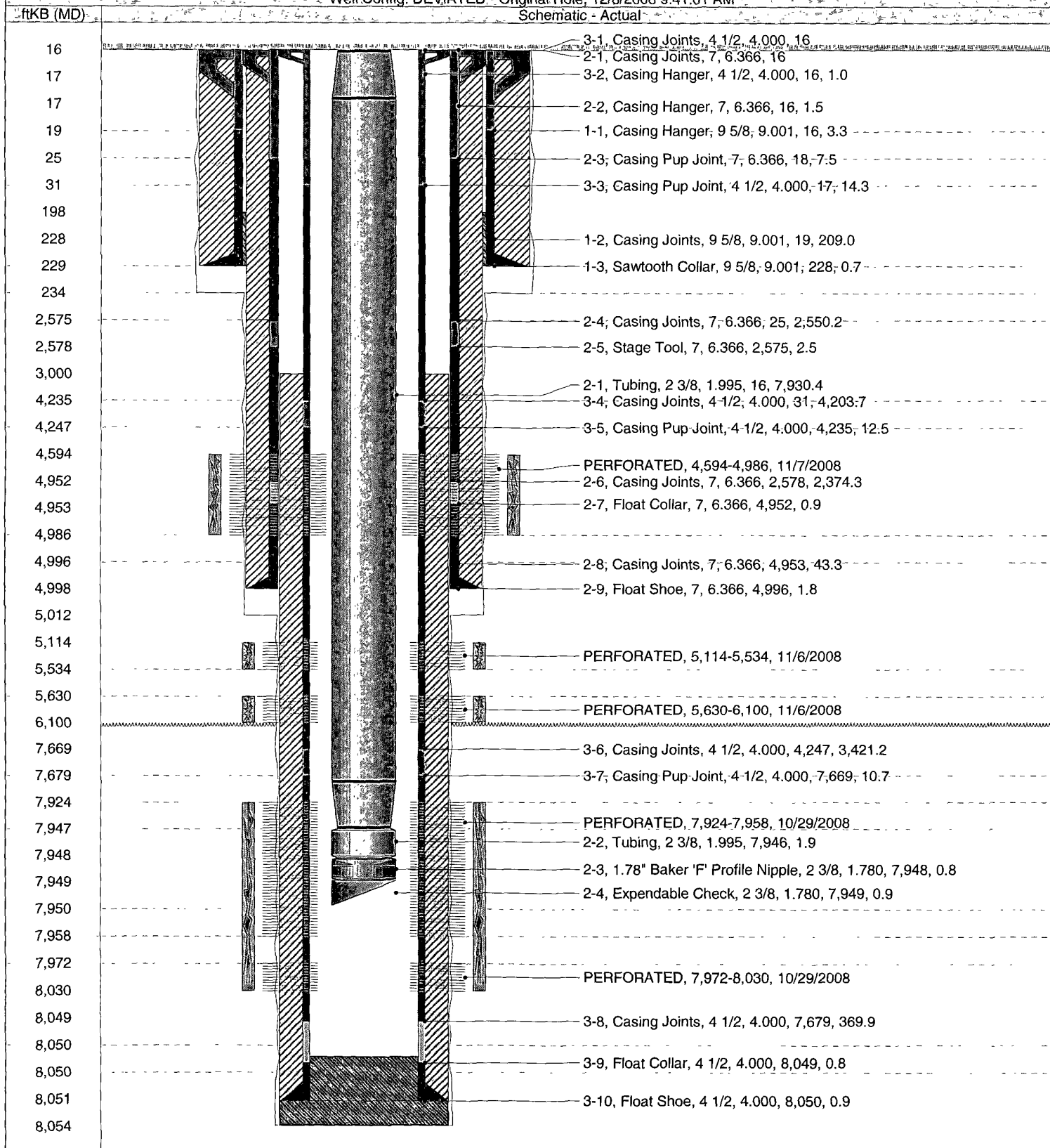
18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
Survey Date: JANUARY 11, 2007
Signature and Seal of Professional Surveyor
JASON C. EDWARDS
15269
REGISTERED PROFESSIONAL SURVEYOR
NEW MEXICO
15269
JASON C. EDWARDS
Certificate Number 15269

12/16

SAN JUAN 31-6 UNIT #3M

District	Field Name	API / UWI	County	State/Province	
NORTH	MV/DK COM	3003929736	RIO ARRIBA	NEW MEXICO	
Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
6/16/2008	006-030N-006W-O	2,015.00	FEL	510.00	FSL

Well Config: DEVIATED - Original Hole, 12/8/2008 9:41:01 AM





Hathaway Burnham Navigational LLC
DIRECTIONAL AND MWD SERVICES

RCVD DEC 9 '08
OIL CONS. DIV.
DIST. 3

August 19, 2008

Ms. Geneva Blackwater
P.O. Box 4289
Farmington, NM 87499

RE: Final Notarized Survey's Well San Juan 31-6 #3M

Dear Ms. Blackwater,

Please find the enclosed final surveys for well San Juan 31-6 #3M. I herby Certify to the best of my knowledge these surveys are true and correct.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Lambert', with a stylized flourish at the end.

Taryn Lambert
Hathaway Burnham Navigational LLC

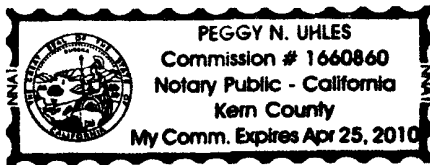
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of KERN

RCVD DEC 9 '08
OIL CONS. DIV.
DIST. 3

On AUG 28, 2008 before me, PEGGY W. UHLES, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer
personally appeared TARYN LAMBERT
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Peggy N. Uhles
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here

HB

Job Number: NM-08302
Company: CONOCO PHILLIPS
Lease/Well: SJ 31-6 #3M
Location: SECTION 6 N
Rig Name: HP 283
RKB: ☐
G.L. or M.S.L.: ☐

State/Country: NEW MEXICO
Declination: ☐
Grid: ☐
File name: C:\WINSERVE\NM08302.SVY
Date/Time: 19-Aug-08 / 14:08
Curve Name: AS DRILLED

Hathaway & Burnham Navigational

RCVD DEC 9 '08

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 60.79
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

OIL CONS. DIV.

DIST. 3

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
295.00	.40	102.50	295.00	-.22	1.01	.77	1.03	102.50	.14
390.00	1.50	79.30	389.98	-.06	2.55	2.20	2.55	91.43	1.20
482.00	3.33	67.50	481.90	1.18	6.20	5.99	6.31	79.21	2.05
577.00	4.60	61.20	576.67	4.07	12.09	12.54	12.76	71.38	1.41
668.00	6.70	57.70	667.22	8.67	19.78	21.49	21.59	66.33	2.34
761.00	8.70	55.90	759.38	15.51	30.19	33.92	33.94	62.80	2.17
855.00	10.80	54.80	852.02	24.58	43.27	49.76	49.76	60.41	2.24
950.00	12.50	53.20	945.06	35.87	58.78	68.81	68.86	58.61	1.82
1047.00	14.80	52.30	1039.31	49.73	76.99	91.47	91.65	57.14	2.38

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1142.00	16.40	53.90	1130.81	65.05	97.43	116.79	117.15	56.27	1.74
1237.00	18.30	55.70	1221.48	81.36	120.59	144.96	145.47	55.99	2.08
1332.00	20.00	57.70	1311.22	98.45	146.64	176.04	176.62	56.12	1.92
1426.00	21.80	61.10	1399.04	115.48	175.51	209.55	210.10	56.66	2.31
1519.00	23.20	62.50	1484.96	132.28	206.88	245.13	245.56	57.40	1.61
1613.00	24.60	64.00	1570.90	149.41	240.89	283.17	283.46	58.19	1.62
1707.00	24.90	63.80	1656.26	166.72	276.23	322.47	322.65	58.89	.33
1803.00	24.50	62.90	1743.48	184.71	312.09	362.54	362.65	59.38	.57
1896.00	24.90	62.80	1827.97	202.45	346.67	401.38	401.45	59.72	.43
1991.00	25.10	62.30	1914.07	220.95	382.29	441.51	441.55	59.97	.31
2119.00	25.20	61.80	2029.93	246.45	430.35	495.89	495.92	60.20	.18
2214.00	24.40	61.70	2116.17	265.31	465.45	535.74	535.75	60.32	.84
2310.00	23.30	60.30	2203.97	284.12	499.40	574.55	574.57	60.36	1.29
2403.00	25.40	59.80	2288.70	303.27	532.62	612.89	612.91	60.34	2.27
2501.00	25.20	59.10	2377.30	324.55	568.69	654.76	654.78	60.29	.37
2597.00	24.80	58.20	2464.30	345.66	603.34	695.30	695.34	60.19	.57
2692.00	24.20	58.10	2550.75	366.45	636.80	734.65	734.71	60.08	.63
2787.00	24.00	56.70	2637.47	387.35	669.48	773.37	773.46	59.95	.64
2883.00	24.40	56.60	2725.03	408.98	702.35	812.62	812.75	59.79	.42
2978.00	21.00	58.90	2812.66	428.58	733.32	849.22	849.37	59.70	3.70
3074.00	20.20	58.60	2902.52	446.10	762.19	882.97	883.15	59.66	.84
3169.00	18.70	57.90	2992.10	462.74	789.10	914.58	914.77	59.61	1.60
3297.00	14.00	56.50	3114.89	482.20	819.41	950.53	950.76	59.52	3.68
3329.00	13.90	57.40	3145.94	486.41	825.87	958.23	958.47	59.50	.75
3361.00	13.90	57.60	3177.01	490.54	832.36	965.90	966.15	59.49	.15
3392.00	14.20	57.30	3207.08	494.59	838.70	973.41	973.67	59.47	1.00
3424.00	15.30	57.20	3238.02	499.00	845.55	981.54	981.81	59.45	3.44
3456.00	16.10	57.30	3268.83	503.68	852.83	990.19	990.46	59.43	2.50
3488.00	16.00	56.70	3299.58	508.50	860.25	999.01	999.30	59.41	.61
3519.00	16.30	57.30	3329.36	513.19	867.49	1007.62	1007.92	59.39	1.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3551.00	17.00	58.00	3360.02	518.10	875.23	1016.77	1017.08	59.38	2.28
3582.00	18.00	58.00	3389.58	523.04	883.14	1026.08	1026.40	59.36	3.23
3615.00	18.80	58.30	3420.90	528.54	891.99	1036.49	1036.82	59.35	2.44
3646.00	19.10	61.00	3450.22	533.62	900.67	1046.55	1046.88	59.35	2.99
3678.00	19.70	61.00	3480.40	538.77	909.97	1057.18	1057.51	59.37	1.87
3710.00	20.40	60.50	3510.46	544.13	919.54	1068.15	1068.47	59.39	2.25
3774.00	20.80	60.00	3570.37	555.31	939.09	1090.67	1090.99	59.40	.68
3802.00	21.50	58.00	3596.48	560.51	947.75	1100.76	1101.09	59.40	3.59
3834.00	22.70	56.80	3626.13	567.00	957.89	1112.78	1113.12	59.38	4.01
3866.00	23.70	54.90	3655.54	574.08	968.31	1125.34	1125.70	59.34	3.90
3898.00	24.60	53.90	3684.74	581.70	978.96	1138.35	1138.74	59.28	3.09
3929.00	24.50	53.50	3712.94	589.33	989.34	1151.13	1151.56	59.22	.63
3992.00	23.80	54.40	3770.42	604.50	1010.18	1176.72	1177.23	59.10	1.26
4024.00	24.00	52.70	3799.68	612.20	1020.60	1189.58	1190.13	59.04	2.24
4056.00	24.40	52.00	3828.87	620.21	1030.99	1202.56	1203.16	58.97	1.54
4088.00	22.60	52.40	3858.21	628.03	1041.07	1215.17	1215.83	58.90	5.65
4119.00	21.90	51.90	3886.91	635.24	1050.34	1226.78	1227.49	58.83	2.34
4151.00	22.30	53.10	3916.55	642.56	1059.89	1238.69	1239.46	58.77	1.88
4183.00	22.50	53.20	3946.14	649.88	1069.65	1250.78	1251.59	58.72	.64
4215.00	23.20	53.50	3975.63	657.29	1079.62	1263.10	1263.97	58.67	2.22
4246.00	22.30	55.10	4004.22	664.29	1089.35	1275.01	1275.92	58.62	3.52
4278.00	21.20	58.70	4033.94	670.77	1099.27	1286.83	1287.76	58.61	5.40
4310.00	21.10	59.60	4063.78	676.69	1109.19	1298.37	1299.31	58.61	1.06
4342.00	20.40	60.30	4093.71	682.37	1119.00	1309.71	1310.64	58.62	2.32
4375.00	19.10	63.30	4124.77	687.65	1128.82	1320.85	1321.77	58.65	4.99
4407.00	18.00	66.20	4155.10	691.99	1138.02	1331.01	1331.89	58.70	4.49
4439.00	17.10	66.00	4185.62	695.90	1146.84	1340.61	1341.46	58.75	2.82
4471.00	15.80	65.70	4216.30	699.61	1155.11	1349.64	1350.46	58.80	4.07
4500.00	14.90	67.20	4244.27	702.68	1162.15	1357.28	1358.06	58.84	3.39
4532.00	14.20	68.20	4275.24	705.73	1169.58	1365.26	1366.01	58.89	2.32

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4564.00	14.30	70.20	4306.26	708.53	1176.95	1373.05	1373.76	58.95	1.57
4596.00	14.00	72.60	4337.29	711.02	1184.36	1380.74	1381.40	59.02	2.06
4628.00	13.30	77.70	4368.39	712.97	1191.65	1388.05	1388.65	59.11	4.35
4660.00	12.70	80.80	4399.57	714.31	1198.72	1394.88	1395.41	59.21	2.87
4691.00	11.70	83.50	4429.87	715.21	1205.20	1400.98	1401.44	59.31	3.71
4723.00	11.60	85.10	4461.21	715.85	1211.63	1406.90	1407.30	59.42	1.06
4755.00	10.60	85.90	4492.61	716.34	1217.77	1412.50	1412.84	59.53	3.16
4787.00	10.10	87.30	4524.09	716.68	1223.51	1417.68	1417.96	59.64	1.75
4818.00	9.70	86.60	4554.62	716.97	1228.83	1422.46	1422.70	59.74	1.35
4850.00	9.20	85.60	4586.19	717.32	1234.08	1427.21	1427.41	59.83	1.64
4883.00	8.60	87.90	4618.79	717.61	1239.17	1431.80	1431.96	59.92	2.11
4915.00	7.40	94.70	4650.48	717.53	1243.62	1435.64	1435.77	60.02	4.77
4955.00	5.10	111.00	4690.24	716.69	1247.85	1438.92	1439.01	60.13	7.21
projection to bit									
5010.00	3.50	121.00	4745.09	714.94	1251.57	1441.31	1441.38	60.26	3.20

COP Deviation Report
SAN JUAN 31-6 UNIT #3M

Operator CONOCOPHILLIPS	Legal WellName SAN JUAN 31-6 UNIT #3M	API / UWI 3003929736	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 006-030N-006W-O	N/S Dist (ft) 510.00	N/S Ref FSL	E/W Dist (ft) 2,015.00	E/W Ref FEL

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/8/2008	295.00	0.40	DEVIATION	HB
8/8/2008	390.00	1.50	DEVIATION	HB
8/8/2008	482.00	3.33	DEVIATION	HB
8/8/2008	577.00	4.60	DEVIATION	HB
8/8/2008	668.00	6.70	DEVIATION	HB
8/8/2008	761.00	8.70	DEVIATION	HB
8/8/2008	855.00	10.80	DEVIATION	HB
8/8/2008	950.00	12.50	DEVIATION	HB
8/8/2008	1,047.00	14.80	DEVIATION	HB
8/8/2008	1,142.00	16.40	DEVIATION	HB
8/8/2008	1,237.00	18.30	DEVIATION	HB
8/8/2008	1,332.00	20.00	DEVIATION	HB
8/8/2008	1,426.00	21.80	DEVIATION	HB
8/8/2008	1,519.00	23.20	DEVIATION	HB
8/8/2008	1,613.00	24.60	DEVIATION	HB
8/8/2008	1,707.00	24.90	DEVIATION	HB
8/8/2008	1,803.00	24.50	DEVIATION	HB
8/8/2008	1,896.00	24.90	DEVIATION	HB
8/8/2008	1,991.00	25.10	DEVIATION	HB
8/8/2008	2,119.00	25.20	DEVIATION	HB
8/8/2008	2,214.00	24.40	DEVIATION	HB
8/9/2008	2,310.00	23.30	DEVIATION	HB
8/9/2008	2,403.00	25.40	DEVIATION	HB
8/9/2008	2,501.00	25.20	DEVIATION	HB
8/9/2008	2,597.00	24.80	DEVIATION	HB
8/9/2008	2,692.00	24.20	DEVIATION	HB
8/9/2008	2,787.00	24.00	DEVIATION	HB
8/9/2008	2,883.00	24.40	DEVIATION	HB
8/9/2008	2,978.00	21.00	DEVIATION	HB
8/9/2008	3,074.00	20.20	DEVIATION	HB
8/9/2008	3,169.00	18.70	DEVIATION	HB
8/10/2008	3,297.00	14.00	DEVIATION	HB
8/10/2008	3,329.00	13.90	DEVIATION	HB
8/10/2008	3,361.00	13.90	DEVIATION	HB
8/10/2008	3,392.00	14.20	DEVIATION	HB
8/10/2008	3,424.00	15.30	DEVIATION	HB

RCVD DEC 9 '08
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 12-08-08

Sasha N. Spangler

Notary Public in and for San Juan County, New Mexico

My Commission expires 3-24-12

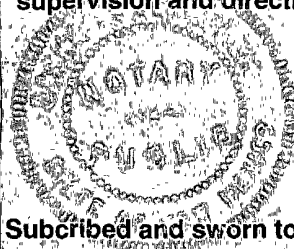
COP Deviation Report

SAN JUAN 31-6 UNIT #3M

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/10/2008	3,456.00	16.10	DEVIATION	HB
8/10/2008	3,488.00	16.00	DEVIATION	HB
8/10/2008	3,519.00	16.30	DEVIATION	HB
8/11/2008	3,551.00	17.00	DEVIATION	HB
8/11/2008	3,582.00	18.00	DEVIATION	HB
8/11/2008	3,615.00	18.80	DEVIATION	HB
8/11/2008	3,646.00	19.10	DEVIATION	HB
8/11/2008	3,678.00	19.70	DEVIATION	HB
8/11/2008	3,710.00	20.40	DEVIATION	HB
8/11/2008	3,774.00	20.80	DEVIATION	HB
8/11/2008	3,802.00	21.50	DEVIATION	HB
8/11/2008	3,834.00	22.70	DEVIATION	HB
8/11/2008	3,866.00	23.70	DEVIATION	HB
8/11/2008	3,898.00	24.60	DEVIATION	HB
8/12/2008	3,929.00	24.50	DEVIATION	HB
8/12/2008	3,992.00	23.80	DEVIATION	HB
8/12/2008	4,024.00	24.00	DEVIATION	HB
8/12/2008	4,056.00	24.40	DEVIATION	HB
8/12/2008	4,088.00	22.60	DEVIATION	HB
8/12/2008	4,119.00	21.90	DEVIATION	HB
8/14/2008	4,151.00	22.30	DEVIATION	HB
8/14/2008	4,183.00	22.50	DEVIATION	HB
8/14/2008	4,215.00	23.20	DEVIATION	HB
8/14/2008	4,246.00	22.30	DEVIATION	HB
8/14/2008	4,278.00	21.20	DEVIATION	HB
8/14/2008	4,310.00	21.10	DEVIATION	HB
8/16/2008	4,342.00	20.40	DEVIATION	HB
8/16/2008	4,375.00	19.10	DEVIATION	HB
8/16/2008	4,407.00	18.00	DEVIATION	HB
8/16/2008	4,439.00	17.10	DEVIATION	HB
8/16/2008	4,471.00	15.80	DEVIATION	HB
8/16/2008	4,500.00	14.90	DEVIATION	HB
8/16/2008	4,532.00	14.20	DEVIATION	HB
8/17/2008	4,564.00	14.30	DEVIATION	HB
8/17/2008	4,596.00	14.00	DEVIATION	HB
8/17/2008	4,628.00	13.30	DEVIATION	HB
8/17/2008	4,660.00	12.70	DEVIATION	HB
8/17/2008	4,691.00	11.70	DEVIATION	HB
8/17/2008	4,723.00	11.60	DEVIATION	HB

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 12-08-08

Sasha W. Seagler

Notary Public in and for San Juan County, New Mexico

My Commission expires 3-24-12

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/17/2008	4,755.00	10.60	DEVIATION	HB
8/17/2008	4,787.00	10.10	DEVIATION	HB
8/17/2008	4,818.00	9.70	DEVIATION	HB
8/17/2008	4,850.00	9.20	DEVIATION	HB
8/19/2008	4,883.00	8.60	DEVIATION	HB
8/19/2008	4,915.00	7.40	DEVIATION	HB
8/19/2008	4,955.00	5.10	DEVIATION	HB
9/4/2008	8,011.00	1.00	FINAL BHS	PHOENIX

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 12-08-08

Sandra W. Spangler

Notary Public in and for San Juan County, New Mexico

My Commission expires 3-24-12