

Ryan Energy Technologies

COMPLETION REPORT

CUD NOV306
CONS. DIV.



Company: ConocoPhillips	Date: 7/12/2006	Time: 09:38:59	Page: 1
Field: Rio Arriba County, NM	Co-ordinate(NE) Reference:	Site: San Juan 31-6 No. 218A, Grid North	
Site: San Juan 31-6 No. 218A	Vertical (TVD) Reference:	SITE 0.0	
Well: Well #218A	Section (VS) Reference:	Well (0.00N,0.00E,354.81Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Rio Arriba County, NM

USA

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Western Zone

Coordinate System:

Site Centre

Geomagnetic Model:

igrf2005

Site: San Juan 31-6 No. 218A
Section 3, T30N, R6W
Rio Arriba County, NM

*Surface: 100/N 1330/E 500.3 T30N R6W
BNL 472/S 1423/E " 34 T31N R6W
MD 3399 TVD 3136*

Site Position: Northing: ft

From: Local Only

Position Uncertainty: 0.00 ft

Ground Level: 0.00 ft

Latitude:

Longitude:

North Reference:

Grid Convergence:

Grid

deg

Well: Well #218A

Slot Name:

Well Position: +N/-S 0.00 ft Northing: ft

+E/-W 0.00 ft Easting: ft

Position Uncertainty: 0.00 ft

Latitude:

Longitude:

Wellpath: Original Hole

Drilled From:

Surface

Current Datum: SITE

Height 0.00 ft

Tie-on Depth:

0.00 ft

Magnetic Data: 3/29/2006

Above System Datum:

Mean Sea Level

Field Strength: 0 nT

Declination:

0.00 deg

Vertical Section: Depth From (TVD)

+N/-S

Mag Dip Angle:

0.00 deg

ft

ft

+E/-W

Direction

deg

0.00

0.00

0.00

354.81

Survey Program for Definitive Wellpath

Date: 7/12/2006

Validated: No

Version: 0

Actual From To Survey

Toolcode

Tool Name

262.00 3349.00 Survey #1 (262.00-3349.00)

MWD

Standard MWD

3399.00 3399.00 Survey #2 (3399.00-3399.00)

Projection

Projection

Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	Dog Leg deg/100ft	Tool
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
262.00	0.50	262.00	-0.44	242.10	-0.53	-1.01	1.14	242.10	0.19	MWD
355.00	1.90	354.98	0.41	305.80	0.18	-2.62	2.63	273.87	1.87	MWD
446.00	3.70	445.87	4.02	327.90	3.55	-5.40	6.46	303.28	2.27	MWD
539.00	5.40	538.57	10.95	340.90	10.23	-8.43	13.25	320.49	2.13	MWD
630.00	7.10	629.03	20.72	352.50	19.85	-10.57	22.49	331.97	2.32	MWD
723.00	9.10	721.10	33.82	357.10	32.89	-11.69	34.91	340.44	2.26	MWD
817.00	12.60	813.41	51.49	357.10	50.56	-12.58	52.10	346.02	3.72	MWD
910.00	15.40	903.63	73.98	355.70	73.01	-14.02	74.35	349.13	3.03	MWD
1005.00	18.00	994.62	101.25	358.50	100.27	-15.35	101.44	351.29	2.86	MWD
1100.00	20.80	1084.22	132.72	359.20	131.81	-15.97	132.78	353.09	2.96	MWD
1195.00	24.20	1171.98	169.01	356.40	168.12	-17.43	169.02	354.08	3.75	MWD
1289.00	27.30	1256.63	209.84	354.30	208.81	-20.78	209.84	354.32	3.44	MWD
1384.00	30.70	1339.71	255.87	352.90	254.57	-25.95	255.89	354.18	3.65	MWD
1477.00	34.10	1418.22	305.69	355.00	304.11	-31.15	305.71	354.15	3.85	MWD
1572.00	36.00	1496.00	360.23	356.70	358.52	-35.08	360.24	354.41	2.25	MWD
1667.00	35.10	1573.29	415.42	357.10	413.68	-38.07	415.42	354.74	0.98	MWD
1761.00	33.90	1650.75	468.63	356.70	466.84	-40.95	468.63	354.99	1.30	MWD
1855.00	35.10	1728.22	521.83	357.40	520.01	-43.68	521.84	355.20	1.34	MWD
1949.00	36.20	1804.60	576.54	358.10	574.75	-45.83	576.58	355.44	1.25	MWD
2043.00	35.80	1880.65	631.70	358.10	629.97	-47.66	631.77	355.67	0.43	MWD
2138.00	35.20	1957.99	686.76	358.50	685.11	-49.30	686.89	355.88	0.68	MWD

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Survey Report



Company: ConocoPhillips	Date: 7/12/2006	Time: 07:36:41	Page: 2
Field: Rio Arriba County, NM	Co-ordinate(NE) Reference:	Site: San Juan 31-6 No. 218A, Grid North	
Site: San Juan 31-6 No. 218A	Vertical (TVD) Reference:	SITE 0.0	
Well: Well #218A	Section (VS) Reference:	Well (0.00N,0.00E,354.81Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2234.00	34.40	358.80	2036.82	739.89	-50.59	741.43	0.85	-0.83	0.31	MWD
2328.00	32.10	356.70	2115.43	791.38	-52.59	792.89	2.74	-2.45	-2.23	MWD
2423.00	28.40	354.30	2197.48	839.08	-56.28	840.73	4.10	-3.89	-2.53	MWD
2518.00	25.50	353.90	2282.16	881.90	-60.70	883.77	3.06	-3.05	-0.42	MWD
2613.00	22.70	353.20	2368.87	920.44	-65.05	922.55	2.96	-2.95	-0.74	MWD
2710.00	18.30	351.50	2459.70	954.11	-69.52	956.48	4.58	-4.54	-1.75	MWD
2803.00	16.00	350.00	2548.56	981.17	-73.90	983.83	2.52	-2.47	-1.61	MWD
2898.00	13.60	347.60	2640.41	1004.98	-78.57	1007.96	2.61	-2.53	-2.53	MWD
2992.00	11.80	348.30	2732.10	1025.19	-82.90	1028.48	1.92	-1.91	0.74	MWD
3087.00	9.90	349.70	2825.40	1042.73	-86.33	1046.27	2.02	-2.00	1.47	MWD
3182.00	7.50	347.60	2919.30	1056.83	-89.12	1060.55	2.55	-2.53	-2.21	MWD
3277.00	4.10	347.20	3013.80	1066.20	-91.20	1070.07	3.58	-3.58	-0.42	MWD
3349.00	2.50	339.90	3085.68	1070.18	-92.31	1074.14	2.29	-2.22	-10.14	MWD
3399.00	2.50	339.90	3135.63	1072.23	-93.06	1076.25	0.00	0.00	0.00	PROJECTED to TD

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Survey Report



Company: ConocoPhillips Field: Rio Arriba County, NM Site: San Juan 31-6 No. 218A Well: Well #218A Wellpath: Original Hole	Date: 7/12/2006 Co-ordinate(NE) Reference: Site: San Juan 31-6 No. 218A, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,354.81Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Field: Rio Arriba County, NM	
USA	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Western Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: San Juan 31-6 No. 218A Section 3, T30N, R6W Rio Arriba County, NM	
Site Position:	Northing: ft
From: Local Only	Easting: ft
Position Uncertainty: 0.00 ft	Latitude:
Ground Level: 0.00 ft	Longitude:
	North Reference: Grid
	Grid Convergence: deg

Well: Well #218A		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: ft	Latitude:	
+E/-W 0.00 ft	Easting: ft	Longitude:	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: SITE	Height 0.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 3/29/2006		Above System Datum: Mean Sea Level	
Field Strength: 0 nT		Declination: 0.00 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 0.00 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	354.81

Survey Program for Definitive Wellpath			
Date: 7/12/2006	Validated: No	Version: 0	
Actual From ft	To ft	Survey	Tool Name
262.00	3349.00	Survey #1 (262.00-3349.00)	MWD
3399.00	3399.00	Survey #2 (3399.00-3399.00)	Projection

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
262.00	0.50	242.10	262.00	-0.53	-1.01	-0.44	0.19	0.19	0.00	MWD
355.00	1.90	305.80	354.98	0.18	-2.62	0.41	1.87	1.51	68.49	MWD
446.00	3.70	327.90	445.87	3.55	-5.40	4.02	2.27	1.98	24.29	MWD
539.00	5.40	340.90	538.57	10.23	-8.43	10.95	2.13	1.83	13.98	MWD
630.00	7.10	352.50	629.03	19.85	-10.57	20.72	2.32	1.87	12.75	MWD
723.00	9.10	357.10	721.10	32.89	-11.69	33.82	2.26	2.15	4.95	MWD
817.00	12.60	357.10	813.41	50.56	-12.58	51.49	3.72	3.72	0.00	MWD
910.00	15.40	355.70	903.63	73.01	-14.02	73.98	3.03	3.01	-1.51	MWD
1005.00	18.00	358.50	994.62	100.27	-15.35	101.25	2.86	2.74	2.95	MWD
1100.00	20.80	359.20	1084.22	131.81	-15.97	132.72	2.96	2.95	0.74	MWD
1195.00	24.20	356.40	1171.98	168.12	-17.43	169.01	3.75	3.58	-2.95	MWD
1289.00	27.30	354.30	1256.63	208.81	-20.78	209.84	3.44	3.30	-2.23	MWD
1384.00	30.70	352.90	1339.71	254.57	-25.95	255.87	3.65	3.58	-1.47	MWD
1477.00	34.10	355.00	1418.22	304.11	-31.15	305.69	3.85	3.66	2.26	MWD
1572.00	36.00	356.70	1496.00	358.52	-35.08	360.23	2.25	2.00	1.79	MWD
1667.00	35.10	357.10	1573.29	413.68	-38.07	415.42	0.98	-0.95	0.42	MWD
1761.00	33.90	356.70	1650.75	466.84	-40.95	468.63	1.30	-1.28	-0.43	MWD
1855.00	35.10	357.40	1728.22	520.01	-43.68	521.83	1.34	1.28	0.74	MWD
1949.00	36.20	358.10	1804.60	574.75	-45.83	576.54	1.25	1.17	0.74	MWD
2043.00	35.80	358.10	1880.65	629.97	-47.66	631.70	0.43	-0.43	0.00	MWD
2138.00	35.20	358.50	1957.99	685.11	-49.30	686.76	0.68	-0.63	0.42	MWD

Ryan Energy Technologied

COMPLETION REPORT



Company: ConocoPhillips Field: Rio Arriba County, NM Site: San Juan 31-6 No. 218A Well: Well #218A Wellpath: Original Hole	Date: 7/12/2006 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 09:30:59 Site: San Juan 31-6 No. 218A, Grid North SITE 0.0 Well (0.00N,0.00E,354.81Azi) Minimum Curvature	Page: 2 Db: Sybase
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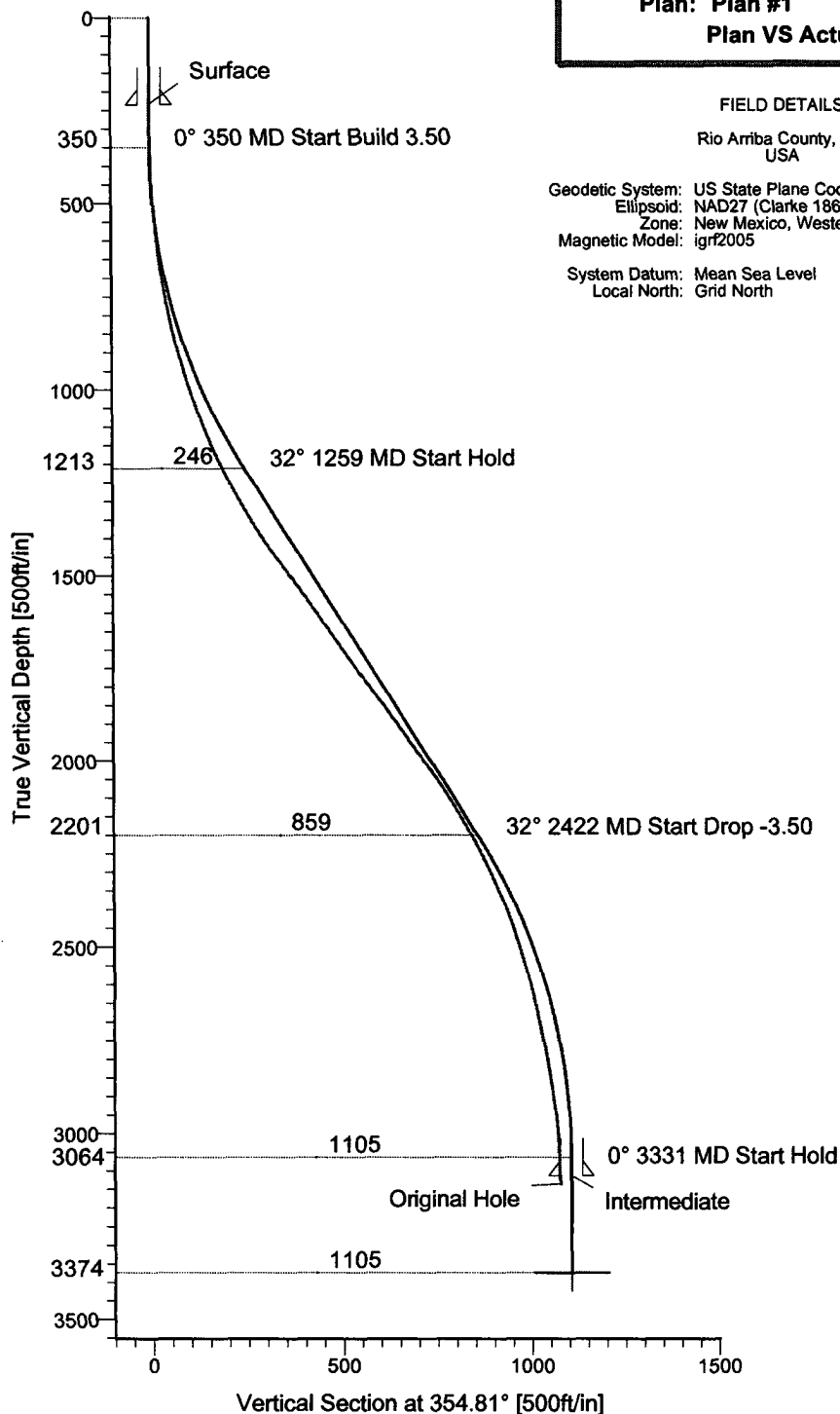
Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	Dog Leg deg/100ft	Tool
2234.00	34.40	2036.82	741.43	358.80	739.89	-50.59	741.62	356.09	0.85	MWD
2328.00	32.10	2115.43	792.89	356.70	791.38	-52.59	793.12	356.20	2.74	MWD
2423.00	28.40	2197.48	840.73	354.30	839.08	-56.28	840.96	356.16	4.10	MWD
2518.00	25.50	2282.16	883.77	353.90	881.90	-60.70	883.99	356.06	3.06	MWD
2613.00	22.70	2368.87	922.55	353.20	920.44	-65.05	922.74	355.96	2.96	MWD
2710.00	18.30	2459.70	956.48	351.50	954.11	-69.52	956.63	355.83	4.58	MWD
2803.00	16.00	2548.56	983.83	350.00	981.17	-73.90	983.95	355.69	2.52	MWD
2898.00	13.60	2640.41	1007.96	347.60	1004.98	-78.57	1008.04	355.53	2.61	MWD
2992.00	11.80	2732.10	1028.48	348.30	1025.19	-82.90	1028.53	355.38	1.92	MWD
3087.00	9.90	2825.40	1046.27	349.70	1042.73	-86.33	1046.30	355.27	2.02	MWD
3182.00	7.50	2919.30	1060.55	347.60	1056.83	-89.12	1060.58	355.18	2.55	MWD
3277.00	4.10	3013.80	1070.07	347.20	1066.20	-91.20	1070.09	355.11	3.58	MWD
3349.00	2.50	3085.68	1074.14	339.90	1070.18	-92.31	1074.15	355.07	2.29	MWD
3399.00	2.50	3135.63	1076.25	339.90	1072.23	-93.06	1076.26	355.04	0.00	Projection



ConocoPhillips

Field: Rio Arriba County, NM
Site: San Juan 31-6 No. 218A
Well: Well #218A
Wellpath: Original Hole
Plan: Plan #1
Plan VS Actual

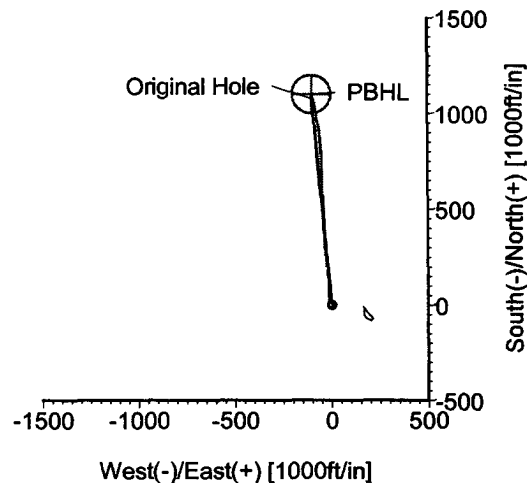


FIELD DETAILS

Rio Arriba County, NM
USA
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Western Zone
Magnetic Model: igr2005
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

San Juan 31-6 No. 218A
Section 3, T30N, R6W
Rio Arriba County, NM
Water Depth: 0.00
Positional Uncertainty: 0.00
Convergence: 0.00



WELLPATH DETAILS

Original Hole			
Rig:	SITE		
Ref. Datum:	0.00ft		
V. Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
354.81°	0.00	0.00	0.00

CASING DETAILS

No.	TVD	MD	Name	Size
1	235.00	235.00	Surface	9.625
2	3114.00	3380.52	Intermediate	7.000

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	3374.00	1100.00	-100.00	Circle (Radius: 100)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	354.81	0.00	0.00	0.00	0.00	0.00	0.00	
2	350.00	0.00	354.81	350.00	0.00	0.00	0.00	0.00	0.00	
3	1258.62	31.80	354.81	1212.68	244.75	-22.25	3.50	354.81	245.76	
4	2421.89	31.80	354.81	2201.32	855.25	-77.75	0.00	0.00	858.78	
5	3330.52	0.00	354.81	3064.00	1100.00	-100.00	3.50	180.00	1104.54	
6	3640.52	0.00	354.81	3374.00	1100.00	-100.00	0.00	0.00	1104.54	PBHL

