

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

RECEIVED

AUG 14 2012

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40591	Pool Code 55510	SCANDINAVIAN Rattlesnake; Bone Spring (G)	
Property Code 38432	Property Name AGATE PWU "21"		Well Number 6H
GRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		Elevation 3316.6

Surface Location

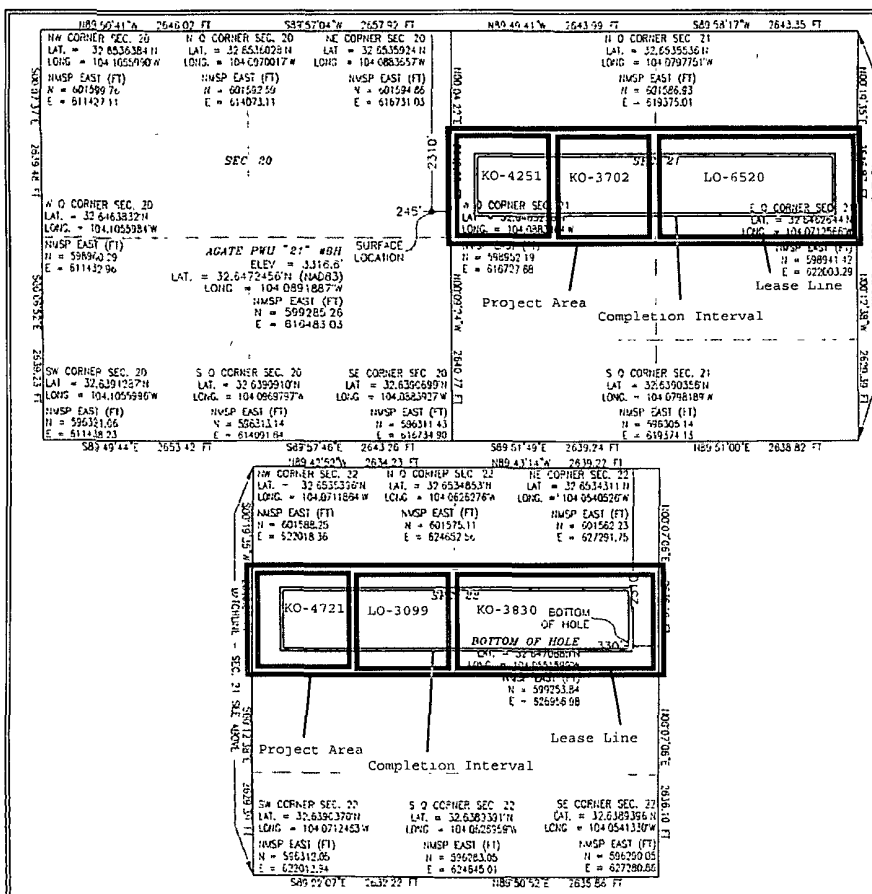
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	20	19 S	29 E		2310	NORTH	245	EAST	EDDY

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
H	22	19 S	29 E		2310	NORTH	330	EAST	EDDY

Dedicated Acres 320.00	Joint or Infill	Consolidation Code	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



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 undivided 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.

Melanie Crawford 8/13/12
Signature Date
Printed Name
Melanie Crawford

18 SURVEYOR CERTIFICATION

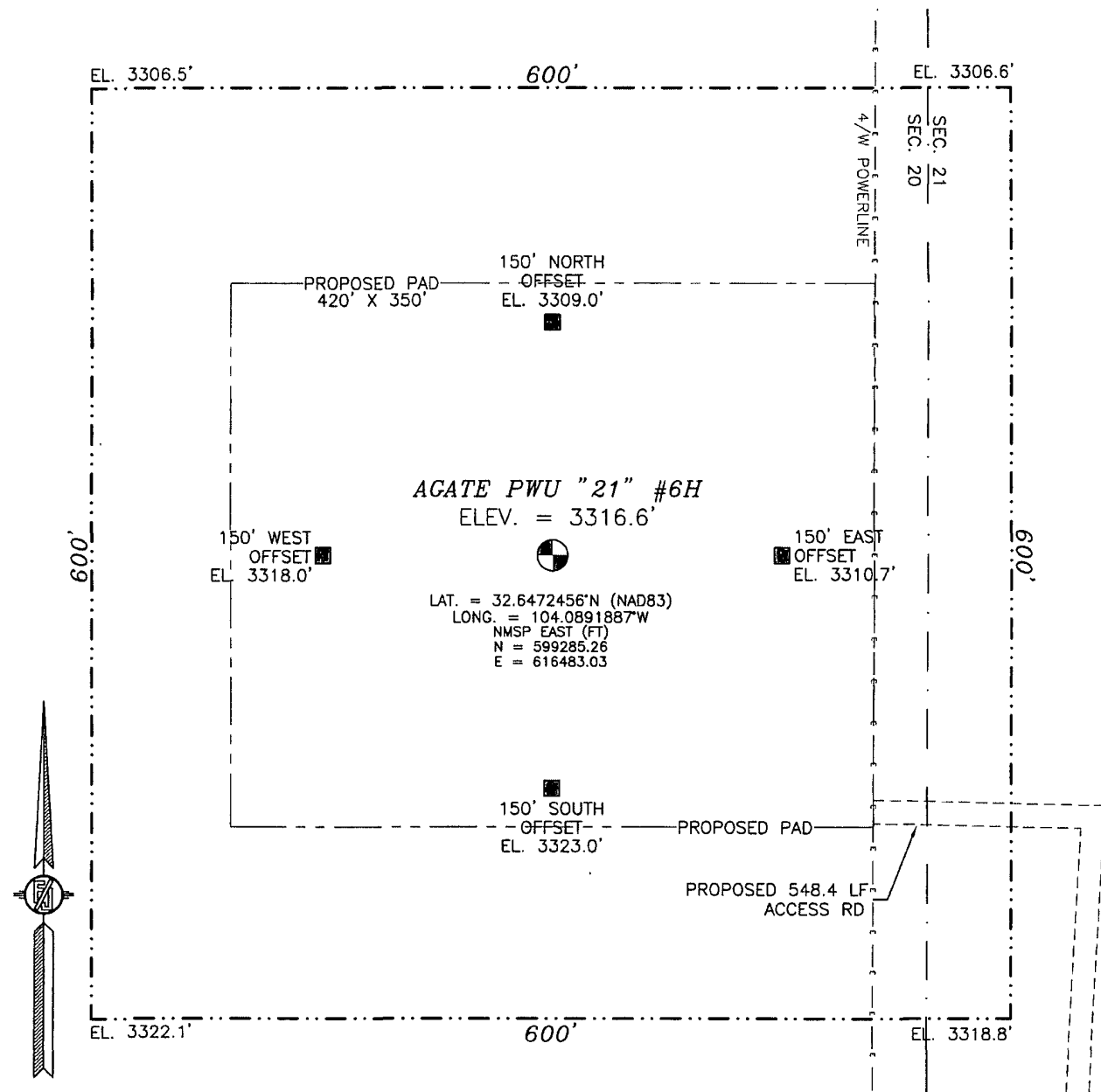
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 2, 2012

Date of Survey

Signature and Seal of Professional Surveyor
Certificate Number: F. JARAMILLO, PLS 12797
SURVEY NO 973

SECTION 20, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 210 (OLD LOCO) AND CR 235 (CURRY COMB) GO SOUTHEAST ON CR 235 FOR APPROX. 0.35 OF A MILE. GO SOUTH-SOUTHEAST (DEVON PARKWAY SIGN) FOR APPROX. 0.3 OF A MILE. GO WEST-SOUTHWEST APPROX. 0.8 OF A MILE. LOCATION IS APPROX. 600 FT NORTH.

DEVON ENERGY PRODUCTION COMPANY, L.P.

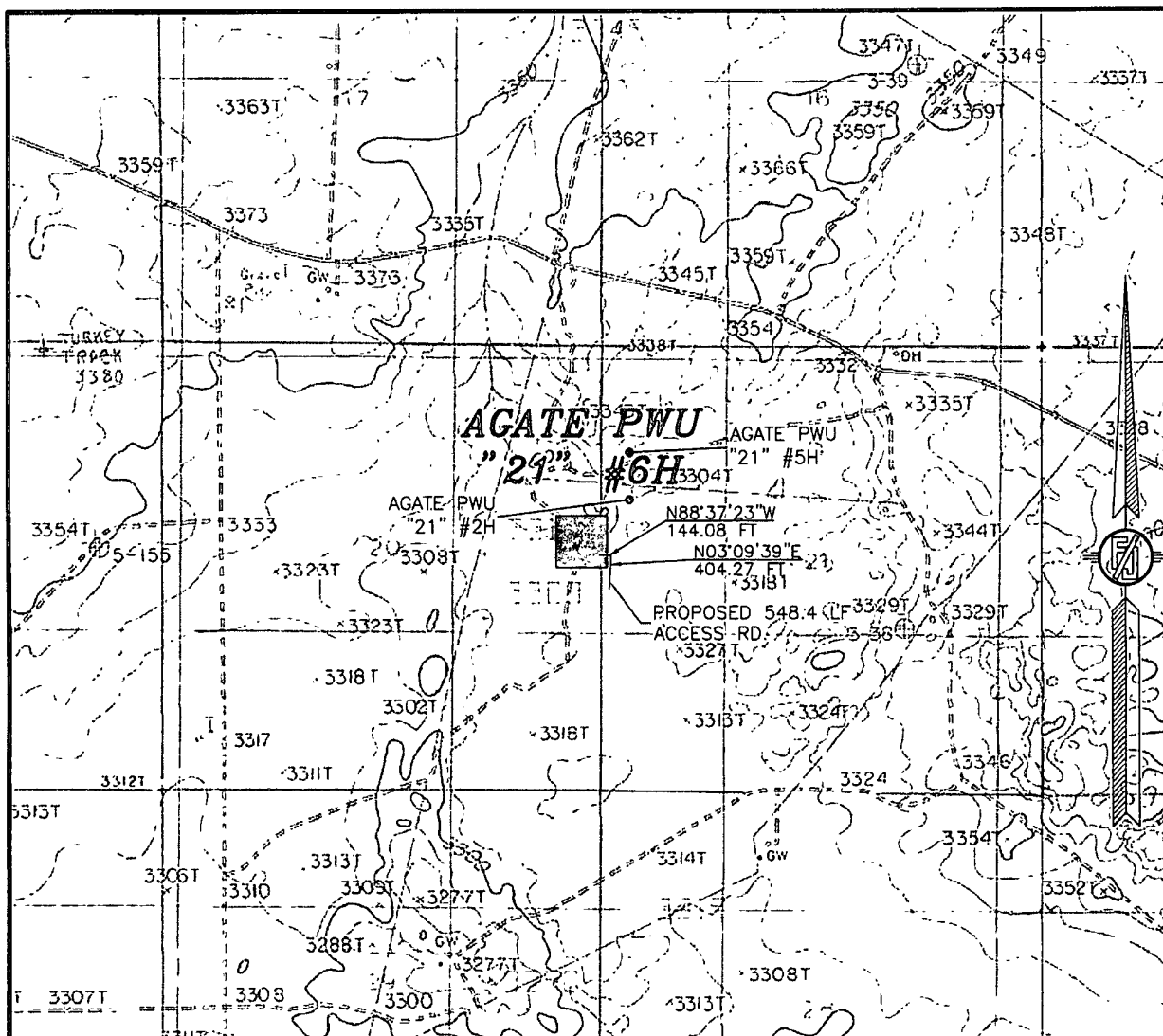
AGATE PWU "21" #6H

LOCATED 2310 FT. FROM THE NORTH LINE
AND 245 FT. FROM THE EAST LINE OF
SECTION 20, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 2, 2012

SURVEY NO. 973

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



USGS QUAD MAP:
ILLINOIS CAMP NE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

AGATE PWU "21" #6H

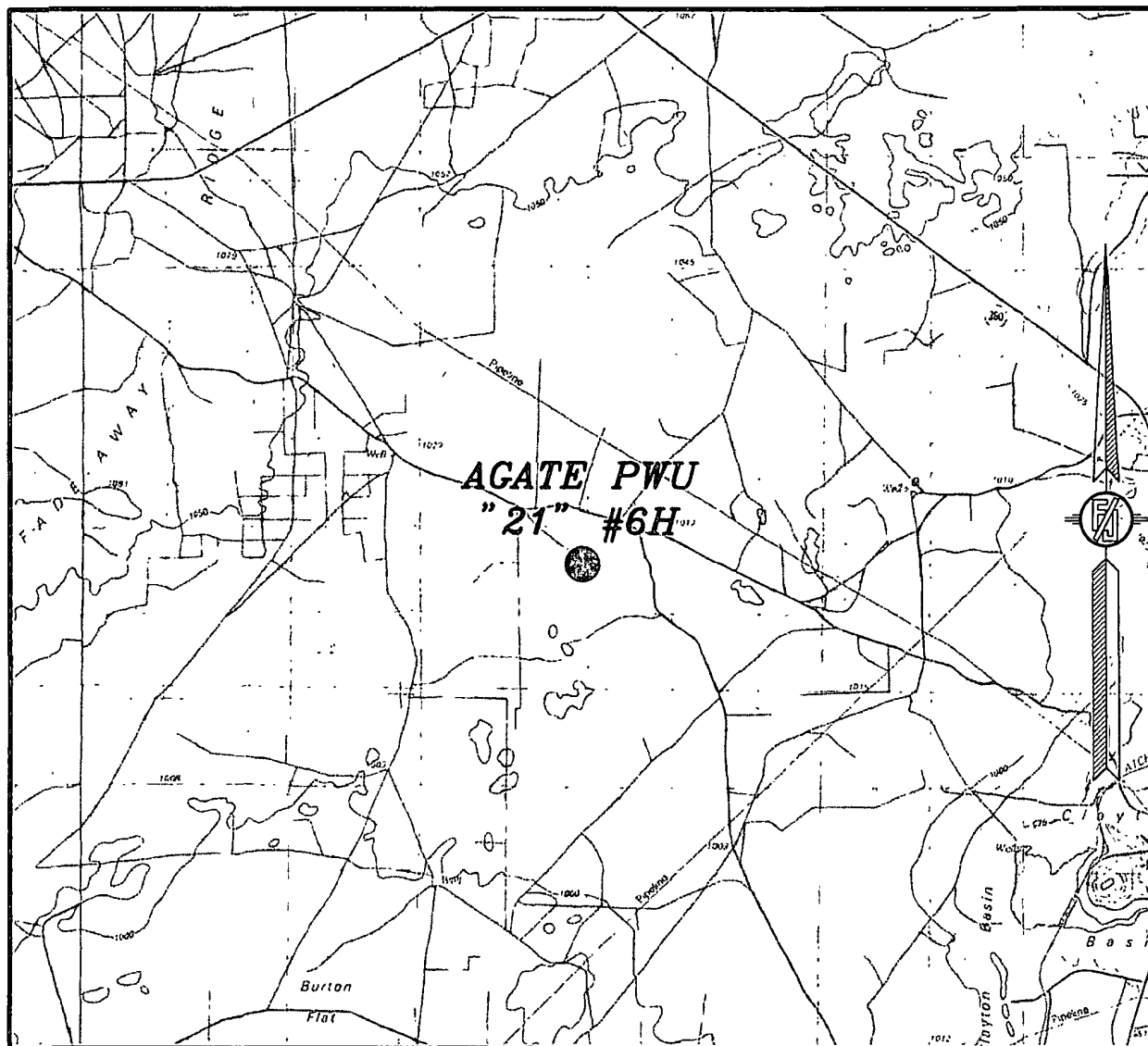
LOCATED 2310 FT. FROM THE "NORTH LINE"
AND 245 FT. FROM THE EAST LINE OF
SECTION 20, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 2, 2012

SURVEY NO. 973

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 20, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

AGATE PWU "21" #6H

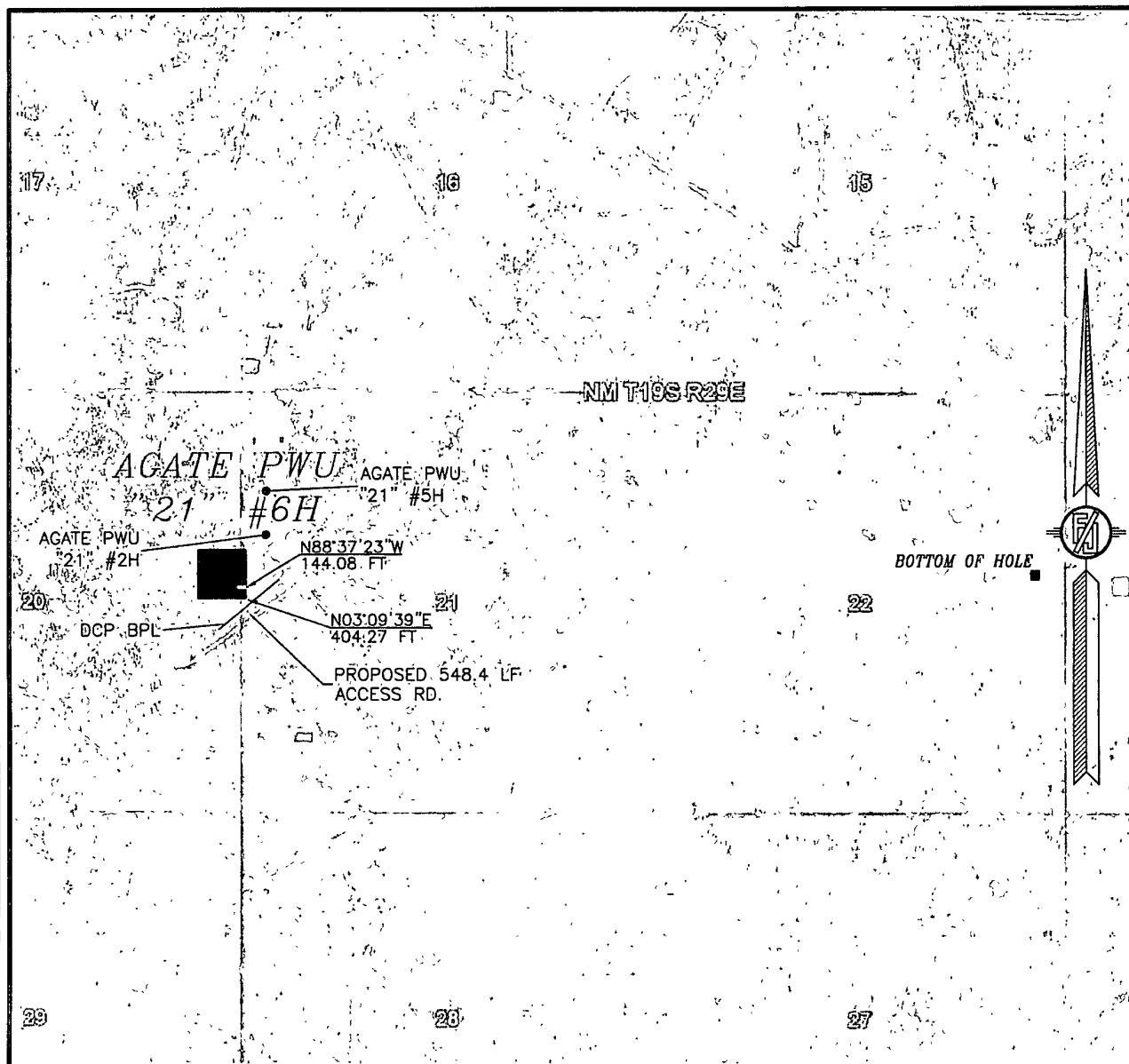
LOCATED 2310 FT. FROM THE NORTH LINE
AND 245 FT. FROM THE EAST LINE OF
SECTION 20, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 2, 2012

SURVEY NO. 973

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 20, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE, 2011

DEVON ENERGY PRODUCTION COMPANY, L.P.

AGATE PWU "21" #6H

LOCATED 2310 FT. FROM THE NORTH LINE
AND 245 FT. FROM THE EAST LINE OF
SECTION 20, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 2, 2012

SURVEY NO. 973

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341



Agate PWU 21 #6H Eddy Co, NM

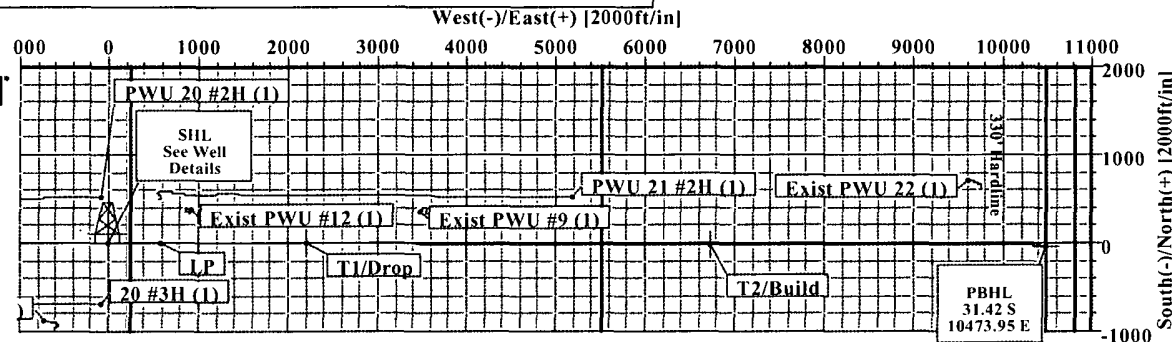
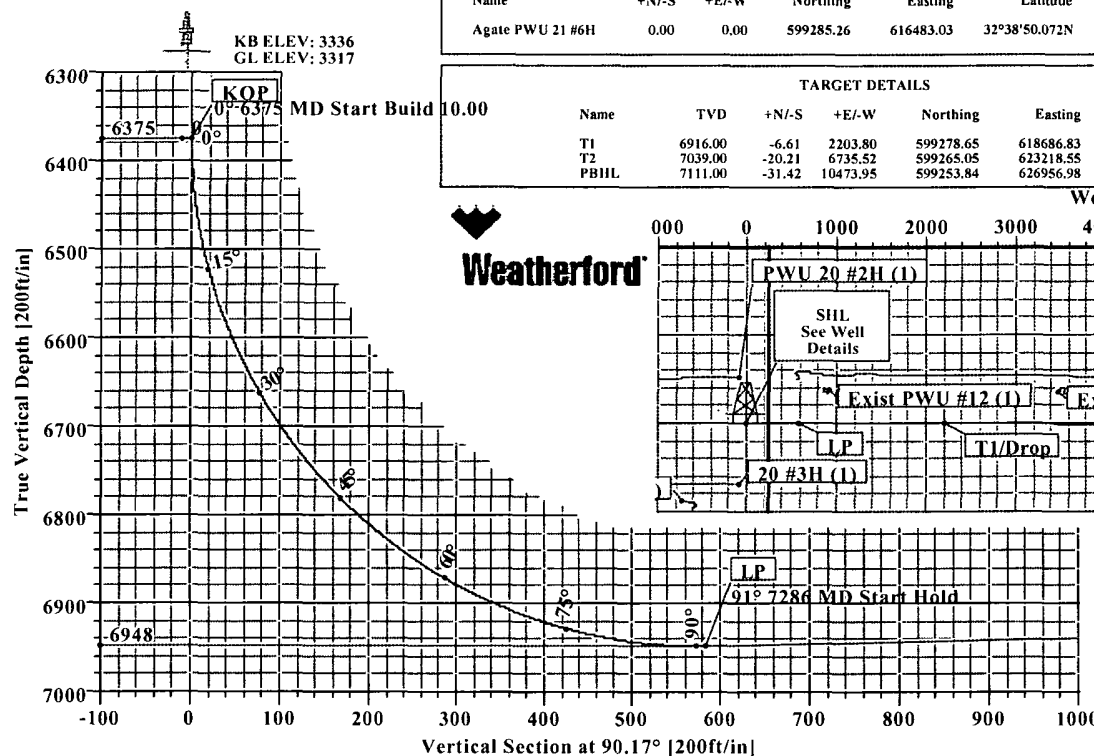
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	90.17	0.00	0.00	0.00	0.00	0.00	0.00	
2	6375.15	0.00	90.17	6375.15	0.00	0.00	0.00	0.00	0.00	
3	7286.47	91.13	90.17	6948.00	-1.75	584.27	10.00	0.00	584.28	
4	8906.32	91.13	90.17	6916.00	-6.61	2203.80	0.00	0.00	2203.81	T1
5	8996.77	88.42	90.17	6916.36	-6.88	2294.24	3.00	180.00	2294.25	
6	13439.76	88.42	90.17	7039.00	-20.21	6735.52	0.00	0.00	6735.55	T2
7	13455.74	88.90	90.17	7039.37	-20.26	6751.50	3.00	-0.02	6751.53	
8	17178.90	88.90	90.17	7111.00	-31.42	10473.95	0.00	0.00	10474.00	PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Agate PWU 21 #6H	0.00	0.00	599285.26	616483.03	32°38'50.072N	104°05'21.094W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
T1	6916.00	-6.61	2203.80	599278.65	618686.83	Point
T2	7039.00	-20.21	6735.52	599265.05	623218.55	Point
PBHL	7111.00	-31.42	10473.95	599253.84	626956.98	Point

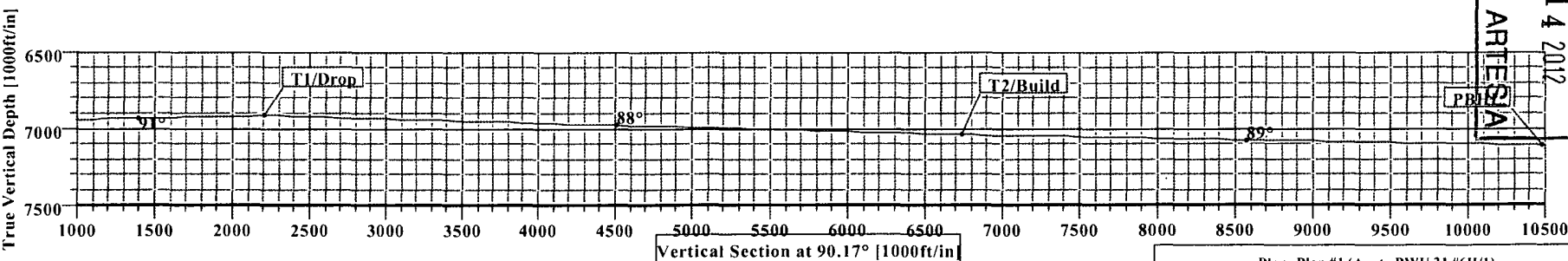
FIELD DETAILS	
Eddy Co., NM (NAD 83)	
Geodetic System:	US State Plane Coordinate System 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North

SITE DETAILS	
Agate PWU 21 #6H	
Site Centre Northing:	599285.26
Easting:	616483.03
Ground Level:	3317.00
Positional Uncertainty:	0.00
Convergence:	0.13



LEGEND	
1	PWU 21 #2H (1)
2	PWU 20 #2H (1)
3	20 #3H (1)
4	PWU 20 #7H (1)
5	Exist PWU #12 (1)
6	Exist PWU #9 (1)
7	Exist PWU 22 (1)
8	Exist. Parkway 13 (1)
9	Plan #1

Azimuths to Grid North	
True North:	-0.13°
Magnetic North:	7.53°
Magnetic Field	
Strength:	48601 nT
Dip Angle:	60.45°
Date:	1/15/2013
Model:	IGRF2010
Total Correction to Grid North:	
7.53°	



Plan: Plan #1 (Agate PWU 21 #6H/1)
Created By: Russell W. Joyner
Date: 7/2/2012

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WOOD ARTESIA



Weatherford®

Drilling Services

Proposal



devon

AGATE PWU 21 #6H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

JULY 2, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1 432.561.8892 Main

+1 432.561 8895 Fax

www.weatherford.com



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WFT Plan Report - X & Y's



Company: Devon Energy Date: 7/2/2012 Time: 10:01:23 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Agate PWU 21 #6H, Grd North
Site: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Well: Agate PWU 21 #6H Section (VS) Reference: Well (0 00N,0.00E,90.17Az)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 7/2/2012
Principal: Yes Version: 1
Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Agate PWU 21 #6H

Site Position: Northing: 599285 26 ft Latitude: 32 38 50.072 N
From: Map Easting: 616483 03 ft Longitude: 104 5 21.094 W
Position Uncertainty: 0 00 ft North Reference: Grd
Ground Level: 3317 00 ft Grid Convergence: 0.13 deg

Well: Agate PWU 21 #6H

Slot Name:

Well Position: +N/-S 0 00 ft Northing: 599285 26 ft Latitude: 32 38 50.072 N
+E/-W 0 00 ft Easting: 616483 03 ft Longitude: 104 5 21 094 W
Position Uncertainty: 0 00 ft

Wellpath: 1

Current Datum: SITE
Magnetic Data: 1/15/2013
Field Strength: 48681 nT
Vertical Section: Depth From (TVD)
ft

Height 3336.00 ft

Drilled From: Surface
Tie-on Depth: 0 00 ft
Above System Datum: Mean Sea Level
Declination: 7 66 deg
Mag Dip Angle: 60 45 deg
+E/-W Direction
ft deg

0 00 0.00 0.00 0.00 90 17

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0 00	0 00	90 17	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
6375 15	0 00	90 17	6375.15	0 00	0 00	0 00	0 00	0 00	0 00	
7286.47	91.13	90 17	6948.00	-1.75	584 27	10 00	10 00	0 00	90 17	
8906 32	91.13	90 17	6916.00	-6 61	2203.80	0 00	0 00	0 00	0 00	T1
8996.77	88 42	90 17	6916.36	-6.88	2294 24	3 00	-3 00	0 00	180.00	
13439.76	88.42	90 17	7039.00	-20.21	6735 52	0 00	0 00	0 00	0 00	T2
13455 74	88 90	90 17	7039.37	-20.26	6751 50	3 00	3 00	0 00	-0 02	
17178 90	88 90	90 17	7111.00	-31 42	10473.95	0 00	0 00	0 00	0 00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6300.00	0 00	90 17	6300.00	0 00	0 00	0 00	0 00	599285 26	616483 03	
6375.15	0 00	90 17	6375.15	0 00	0 00	0 00	0 00	599285 26	616483 03	KOP
6400 00	2 49	90 17	6399 99	0 00	0 54	0 54	10.00	599285 26	616483 57	
6450 00	7 49	90 17	6449 79	-0.01	4 88	4 88	10.00	599285 25	616487 91	
6500 00	12.49	90 17	6499 01	-0.04	13 55	13 55	10.00	599285 22	616496 58	
6550.00	17 49	90 17	6547.30	-0.08	26 47	26 47	10.00	599285.18	616509 50	
6600.00	22 49	90 17	6594 27	-0.13	43.56	43 56	10.00	599285 13	616526.59	
6650 00	27.49	90 17	6639 58	-0.19	64 67	64 67	10.00	599285 07	616547.70	
6700 00	32.49	90 17	6682.87	-0.27	89 65	89 65	10.00	599284.99	616572 68	
6750 00	37.49	90 17	6723.83	-0.35	118 31	118 31	10.00	599284 91	616601.34	
6800 00	42.49	90 17	6762 12	-0.45	150 43	150 43	10.00	599284.81	616633 46	
6850 00	47 49	90 17	6797.48	-0 56	185.76	185.76	10 00	599284.70	616668 79	
6900 00	52 49	90 17	6829 62	-0 67	224 04	224 04	10 00	599284.59	616707 07	
6950 00	57.49	90 17	6858 30	-0.79	264 98	264 98	10 00	599284.47	616748 01	



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy Date: 7/2/2012 Time: 10:01 23 Page: 2
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Site: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336 0
Well: Agate PWU 21 #6H Section (VS) Reference: Well (0.00N,0 00E,90 17Az)
Wellpath: 1 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	MapN ft	MapE ft	Comments
7000 00	62.49	90 17	6883 30	-0.92	308 26	308 26	10 00	599284 34	616791 29	
7050 00	67 49	90.17	6904 44	-1 06	353 56	353 56	10 00	599284 20	616836 59	
7100 00	72.49	90.17	6921 54	-1.20	400 52	400 52	10 00	599284 06	616883 55	
7150 00	77.49	90 17	6934 49	-1.35	448 80	448 80	10 00	599283 91	616931.83	
7200 00	82.49	90.17	6943 19	-1.49	498 02	498 02	10 00	599283 77	616981.05	
7250.00	87 49	90 17	6947 56	-1 64	547 81	547 82	10 00	599283.62	617030 84	
7286 47	91 13	90 17	6948 00	-1 75	584 27	584 28	10 00	599283 51	617067 30	LP
7300 00	91 13	90 17	6947 73	-1 79	597 80	597 80	0 00	599283 47	617080 83	
7400 00	91.13	90 17	6945.75	-2 09	697 78	697 78	0 00	599283 17	617180 81	
7500 00	91.13	90 17	6943 78	-2 39	797 76	797 77	0 00	599282 87	617280.79	
7600 00	91.13	90 17	6941.80	-2.69	897 74	897.75	0 00	599282 57	617380.77	
7700 00	91 13	90 17	6939.83	-2 99	997 72	997 73	0 00	599282 27	617480.75	
7800 00	91 13	90 17	6937 85	-3 29	1097 70	1097.71	0 00	599281 97	617580.73	
7900.00	91.13	90 17	6935.88	-3 59	1197.68	1197 69	0 00	599281 67	617680.71	
8000 00	91 13	90 17	6933.90	-3 89	1297 66	1297 67	0 00	599281.37	617780.69	
8100 00	91.13	90 17	6931.93	-4 19	1397.64	1397 65	0 00	599281 07	617880.67	
8200.00	91 13	90 17	6929 95	-4 49	1497.62	1497 63	0 00	599280 77	617980.65	
8300.00	91 13	90 17	6927.98	-4 79	1597.60	1597 61	0 00	599280.47	618080.63	
8400.00	91 13	90 17	6926 00	-5 09	1697.58	1697 59	0 00	599280.17	618180.61	
8500.00	91.13	90 17	6924 03	-5 39	1797.56	1797 57	0 00	599279.87	618280.59	
8600.00	91.13	90 17	6922 05	-5.69	1897.54	1897.55	0 00	599279.57	618380 57	
8700.00	91 13	90 17	6920 08	-5.99	1997 52	1997 53	0 00	599279 27	618480 55	
8800.00	91 13	90 17	6918 10	-6.29	2097.50	2097.51	0 00	599278.97	618580 53	
8906.32	91 13	90.17	6916 00	-6.61	2203 80	2203 81	0 00	599278.65	618686 83	T1
8996 77	88 42	90 17	6916 36	-6.88	2294 24	2294 25	3.00	599278 38	618777 27	Hold
9000 00	88 42	90 17	6916 44	-6.89	2297 47	2297.48	0 00	599278 37	618780 50	
9100 00	88.42	90 17	6919 20	-7 19	2397.43	2397 44	0 00	599278.07	618880 46	
9200 00	88 42	90.17	6921 97	-7 49	2497 39	2497.40	0 00	599277.77	618980 42	
9300 00	88 42	90.17	6924 73	-7 79	2597 35	2597 37	0 00	599277.47	619080 38	
9400 00	88 42	90 17	6927 49	-8 09	2697.32	2697.33	0 00	599277 17	619180.35	
9500 00	88 42	90.17	6930.25	-8 39	2797.28	2797 29	0 00	599276 87	619280 31	
9600 00	88 42	90.17	6933 01	-8 69	2897 24	2897.25	0 00	599276 57	619380 27	
9700 00	88 42	90 17	6935.77	-8 99	2997 20	2997.21	0 00	599276 27	619480.23	
9800 00	88 42	90 17	6938.53	-9 29	3097.16	3097.18	0 00	599275 97	619580.19	
9900.00	88 42	90.17	6941 29	-9 59	3197.12	3197 14	0 00	599275 67	619680 15	
10000 00	88 42	90.17	6944 05	-9.89	3297 08	3297 10	0 00	599275 37	619780 11	
10100 00	88 42	90.17	6946 81	-10 19	3397.05	3397 06	0 00	599275 07	619880.08	
10200 00	88 42	90 17	6949 57	-10 49	3497 01	3497 02	0 00	599274.77	619980.04	
10300.00	88.42	90 17	6952.33	-10 79	3596 97	3596 99	0 00	599274.47	620080.00	
10400.00	88 42	90 17	6955 09	-11.09	3696 93	3696 95	0 00	599274.17	620179.96	
10500.00	88 42	90 17	6957 85	-11 39	3796 89	3796 91	0 00	599273.87	620279.92	
10600 00	88 42	90 17	6960 61	-11.69	3896 85	3896 87	0 00	599273 57	620379 88	
10700.00	88 42	90 17	6963.37	-11.99	3996 81	3996 83	0 00	599273 27	620479 84	
10800 00	88 42	90 17	6966.13	-12.29	4096 78	4096 79	0 00	599272 97	620579 81	
10900 00	88.42	90 17	6968.89	-12.59	4196 74	4196.76	0 00	599272 67	620679 77	
11000 00	88 42	90 17	6971.65	-12.89	4296 70	4296.72	0 00	599272 37	620779.73	
11100 00	88 42	90.17	6974 41	-13.19	4396 66	4396 68	0 00	599272 07	620879 69	
11200.00	88 42	90.17	6977.17	-13 49	4496 62	4496 64	0 00	599271 77	620979 65	
11300 00	88 42	90.17	6979.93	-13 79	4596.58	4596 60	0 00	599271.47	621079 61	
11400.00	88 42	90 17	6982 69	-14.09	4696.54	4696.57	0 00	599271.17	621179 57	
11500.00	88.42	90.17	6985 45	-14 39	4796.51	4796 53	0 00	599270 87	621279 54	
11600.00	88 42	90 17	6988 21	-14 69	4896.47	4896 49	0 00	599270 57	621379 50	



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Agate PWU 21 #6H
Well: Agate PWU 21 #6H
Wellpath: 1

Date: 7/2/2012 Time: 10 01.23 Page: 3
Co-ordinate(NE) Reference: Well. Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0
Section (VS) Reference: Well (0 00N,0 00E,90 17Azi)
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	MapN ft	MapE ft	Comments
11700.00	88.42	90.17	6990.98	-14.99	4996.43	4996.45	0.00	599270.27	621479.46	
11800.00	88.42	90.17	6993.74	-15.29	5096.39	5096.41	0.00	599269.97	621579.42	
11900.00	88.42	90.17	6996.50	-15.59	5196.35	5196.38	0.00	599269.67	621679.38	
12000.00	88.42	90.17	6999.26	-15.89	5296.31	5296.34	0.00	599269.37	621779.34	
12100.00	88.42	90.17	7002.02	-16.19	5396.28	5396.30	0.00	599269.07	621879.31	
12200.00	88.42	90.17	7004.78	-16.49	5496.24	5496.26	0.00	599268.77	621979.27	
12300.00	88.42	90.17	7007.54	-16.79	5596.20	5596.22	0.00	599268.47	622079.23	
12400.00	88.42	90.17	7010.30	-17.09	5696.16	5696.19	0.00	599268.17	622179.19	
12500.00	88.42	90.17	7013.06	-17.39	5796.12	5796.15	0.00	599267.87	622279.15	
12600.00	88.42	90.17	7015.82	-17.69	5896.08	5896.11	0.00	599267.57	622379.11	
12700.00	88.42	90.17	7018.58	-17.99	5996.04	5996.07	0.00	599267.27	622479.07	
12800.00	88.42	90.17	7021.34	-18.29	6096.01	6096.03	0.00	599266.97	622579.04	
12900.00	88.42	90.17	7024.10	-18.59	6195.97	6195.99	0.00	599266.67	622679.00	
13000.00	88.42	90.17	7026.86	-18.89	6295.93	6295.96	0.00	599266.37	622778.96	
13100.00	88.42	90.17	7029.62	-19.19	6395.89	6395.92	0.00	599266.07	622878.92	
13200.00	88.42	90.17	7032.38	-19.49	6495.85	6495.88	0.00	599265.77	622978.88	
13300.00	88.42	90.17	7035.14	-19.79	6595.81	6595.84	0.00	599265.47	623078.84	
13400.00	88.42	90.17	7037.90	-20.09	6695.77	6695.80	0.00	599265.17	623178.80	
13439.76	88.42	90.17	7039.00	-20.21	6735.52	6735.55	0.00	599265.05	623218.55	T2
13455.74	88.90	90.17	7039.37	-20.26	6751.50	6751.53	3.00	599265.00	623234.53	Hold
13500.00	88.90	90.17	7040.23	-20.39	6795.75	6795.78	0.00	599264.87	623278.78	
13600.00	88.90	90.17	7042.15	-20.69	6895.73	6895.76	0.00	599264.57	623378.76	
13700.00	88.90	90.17	7044.07	-20.99	6995.71	6995.74	0.00	599264.27	623478.74	
13800.00	88.90	90.17	7046.00	-21.29	7095.69	7095.72	0.00	599263.97	623578.72	
13900.00	88.90	90.17	7047.92	-21.59	7195.67	7195.70	0.00	599263.67	623678.70	
14000.00	88.90	90.17	7049.84	-21.89	7295.65	7295.68	0.00	599263.37	623778.68	
14100.00	88.90	90.17	7051.77	-22.19	7395.63	7395.67	0.00	599263.07	623878.66	
14200.00	88.90	90.17	7053.69	-22.49	7495.61	7495.65	0.00	599262.77	623978.64	
14300.00	88.90	90.17	7055.62	-22.79	7595.59	7595.63	0.00	599262.47	624078.62	
14400.00	88.90	90.17	7057.54	-23.09	7695.57	7695.61	0.00	599262.17	624178.60	
14500.00	88.90	90.17	7059.46	-23.39	7795.56	7795.59	0.00	599261.87	624278.59	
14600.00	88.90	90.17	7061.39	-23.69	7895.54	7895.57	0.00	599261.57	624378.57	
14700.00	88.90	90.17	7063.31	-23.99	7995.52	7995.55	0.00	599261.27	624478.55	
14800.00	88.90	90.17	7065.23	-24.29	8095.50	8095.54	0.00	599260.97	624578.53	
14900.00	88.90	90.17	7067.16	-24.59	8195.48	8195.52	0.00	599260.67	624678.51	
15000.00	88.90	90.17	7069.08	-24.89	8295.46	8295.50	0.00	599260.37	624778.49	
15100.00	88.90	90.17	7071.01	-25.19	8395.44	8395.48	0.00	599260.07	624878.47	
15200.00	88.90	90.17	7072.93	-25.49	8495.42	8495.46	0.00	599259.77	624978.45	
15300.00	88.90	90.17	7074.85	-25.79	8595.40	8595.44	0.00	599259.47	625078.43	
15400.00	88.90	90.17	7076.78	-26.09	8695.39	8695.42	0.00	599259.17	625178.42	
15500.00	88.90	90.17	7078.70	-26.39	8795.37	8795.41	0.00	599258.87	625278.40	
15600.00	88.90	90.17	7080.63	-26.69	8895.35	8895.39	0.00	599258.57	625378.38	
15700.00	88.90	90.17	7082.55	-26.99	8995.33	8995.37	0.00	599258.27	625478.36	
15800.00	88.90	90.17	7084.47	-27.29	9095.31	9095.35	0.00	599257.97	625578.34	
15900.00	88.90	90.17	7086.40	-27.59	9195.29	9195.33	0.00	599257.67	625678.32	
16000.00	88.90	90.17	7088.32	-27.89	9295.27	9295.31	0.00	599257.37	625778.30	
16100.00	88.90	90.17	7090.24	-28.19	9395.25	9395.30	0.00	599257.07	625878.28	
16200.00	88.90	90.17	7092.17	-28.49	9495.23	9495.28	0.00	599256.77	625978.26	
16300.00	88.90	90.17	7094.09	-28.79	9595.21	9595.26	0.00	599256.47	626078.24	
16400.00	88.90	90.17	7096.02	-29.08	9695.20	9695.24	0.00	599256.18	626178.23	
16500.00	88.90	90.17	7097.94	-29.38	9795.18	9795.22	0.00	599255.88	626278.21	
16600.00	88.90	90.17	7099.86	-29.68	9895.16	9895.20	0.00	599255.58	626378.19	
16700.00	88.90	90.17	7101.79	-29.98	9995.14	9995.18	0.00	599255.28	626478.17	



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Agate PWU 21 #6H
Well: Agate PWU 21 #6H
Wellpath: 1

Date: 7/2/2012
Co-ordinate(NE) Reference: Well: Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0
Section (VS) Reference: Well (0.00N,0.00E,90 17Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Time: 10:01 23
Page: 4

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
16800.00	88 90	90.17	7103.71	-30.28	10095.12	10095.17	0 00	599254 98	626578 15	
16900.00	88 90	90.17	7105.63	-30.58	10195 10	10195.15	0 00	599254 68	626678 13	
17000 00	88 90	90.17	7107.56	-30.88	10295.08	10295.13	0 00	599254 38	626778.11	
17100 00	88 90	90.17	7109.48	-31.18	10395.06	10395 11	0.00	599254 08	626878.09	
17178 90	88 90	90.17	7111.00	-31.42	10473.95	10474.00	0.00	599253.84	626956 98	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->			
							Deg	Min	Sec	Deg	Min	Sec	
T1		6916.00	-6 61	2203.80	599278 65	618686.83	32	38	49 956	N	104	4 55 318	W
T2		7039.00	-20 21	6735.52	599265 05	623218.55	32	38	49.712	N	104	4 2 315	W
PBHL		7111.00	-31 42	10473.95	599253 84	626956 98	32	38	49.507	N	104	3 18 590	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
6375 15	6375 15	KOP
7286 47	6948 00	LP
8906 32	6916 00	T1/Drop
8996 77	6916 36	Hold
13439.76	7039 00	T2/Build
13455.74	7039 37	Hold
17178.90	7111 00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10:07 09 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath: Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria Reference: Plan Plan #1
Interpolation Method MD Interval: 100.00 ft Error Model: ISCWSA Ellipse
Depth Range: 0.00 to 17178.90 ft Scan Method: Closest Approach 3D
Maximum Radius 40000.00 ft Error Surface: Ellipse

Plan: Plan #1 Date Composed: 7/2/2012
Principal: Yes Version: 1
Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
Emerald PWU 20 #2H	PWU 20 #2H	1 V3	7100.00	12091.00	1170.73	1098.01	16.10	
Emerald PWU 20 #3H	PWU 20 #3H	1 V0	7100.00	12303.00	1230.26	1139.78	13.60	
Exist PWU #12	Exist PWU #12	1 V0	7700.00	6948.07	382.68	351.50	12.28	
Exist PWU #9	Exist PWU #9	1 V0	10300.00	6987.13	415.12	314.77	4.14	
Exist PWU 22	Exist PWU 22	1 V0	16400.00	7070.97	730.54	462.43	2.72	
Exist. Parkway 13	Exist Parkway 13	1 V0	13400.00	6800.00	7343.32	7145.59	37.14	

Site: Emerald PWU 20 #2H
Well: PWU 20 #2H
Wellpath: 1 V3

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
0.00	0.00	27.28	27.28	0.00	0.01	276.21	514.05	-4724.00	4751.90			No Data
100.00	100.00	149.51	149.51	0.09	0.05	276.21	513.82	-4723.35	4751.32	4751.19	35301.45	
200.00	200.00	250.00	249.99	0.32	0.13	276.21	513.89	-4722.43	4750.42	4749.97	10692.96	
300.00	300.00	406.22	406.19	0.54	0.20	276.23	515.68	-4721.11	4750.01	4749.29	6590.01	
400.00	400.00	472.60	472.56	0.77	0.24	276.25	516.66	-4720.09	4748.60	4747.62	4852.44	
500.00	500.00	584.80	584.73	0.99	0.30	276.27	518.35	-4718.57	4747.43	4746.17	3767.69	
600.00	600.00	764.86	764.72	1.21	0.42	276.31	521.39	-4714.24	4745.26	4743.67	2990.26	
700.00	700.00	861.57	861.36	1.44	0.48	276.33	522.97	-4711.15	4742.26	4740.39	2537.08	
800.00	800.00	954.39	954.12	1.66	0.55	276.35	524.22	-4708.23	4739.28	4737.13	2203.90	
900.00	900.00	1066.26	1065.94	1.89	0.62	276.38	525.81	-4704.89	4736.49	4734.05	1938.88	
1000.00	1000.00	1200.76	1200.32	2.11	0.71	276.41	528.06	-4699.90	4732.98	4730.23	1721.31	
1100.00	1100.00	1288.42	1287.91	2.34	0.77	276.43	529.50	-4696.38	4729.19	4726.16	1562.07	
1200.00	1200.00	1375.18	1374.60	2.56	0.83	276.45	530.76	-4693.16	4725.67	4722.37	1429.58	
1300.00	1300.00	1466.05	1465.40	2.79	0.89	276.47	532.22	-4690.21	4722.61	4719.02	1317.60	
1400.00	1400.00	1566.81	1566.09	3.01	0.96	276.49	533.35	-4686.75	4719.32	4715.45	1219.23	
1500.00	1500.00	1671.86	1671.08	3.24	1.03	276.51	534.83	-4683.26	4716.18	4712.03	1133.75	
1600.00	1600.00	1757.35	1756.51	3.46	1.08	276.54	536.21	-4680.39	4713.04	4708.60	1062.67	
1700.00	1700.00	1861.33	1860.42	3.69	1.15	276.56	537.63	-4677.00	4709.96	4705.23	997.34	
1800.00	1800.00	1966.92	1965.95	3.91	1.22	276.57	538.42	-4673.45	4706.69	4701.68	939.23	
1900.00	1900.00	2059.23	2058.21	4.14	1.29	276.59	539.18	-4670.52	4703.62	4698.33	888.51	
2000.00	2000.00	2175.87	2174.78	4.36	1.36	276.60	539.62	-4666.52	4700.24	4694.64	840.34	
2100.00	2100.00	2240.85	2239.73	4.59	1.41	276.60	539.73	-4664.62	4697.32	4691.46	801.80	
2200.00	2200.00	2323.47	2322.33	4.81	1.46	276.60	539.46	-4662.64	4694.91	4688.77	765.07	
2300.00	2300.00	2419.45	2418.29	5.04	1.51	276.60	538.85	-4660.65	4692.76	4686.34	730.76	
2400.00	2400.00	2532.04	2530.85	5.26	1.57	276.59	538.02	-4658.39	4690.71	4684.00	698.59	
2500.00	2500.00	2601.70	2600.49	5.49	1.61	276.58	537.43	-4656.85	4688.49	4681.51	671.40	
2600.00	2600.00	2693.55	2692.33	5.71	1.66	276.58	536.61	-4655.40	4686.82	4679.56	645.45	
2700.00	2700.00	2783.44	2782.20	5.93	1.70	276.57	535.78	-4654.17	4685.35	4677.81	621.62	
2800.00	2800.00	2895.00	2893.74	6.16	1.75	276.55	534.61	-4652.71	4683.93	4676.11	598.77	
2900.00	2900.00	2955.93	2954.67	6.38	1.77	276.55	533.99	-4652.03	4682.72	4674.64	579.61	
3000.00	3000.00	3047.63	3046.36	6.61	1.80	276.54	533.12	-4651.57	4682.11	4673.77	561.46	
3100.00	3100.00	3145.43	3144.16	6.83	1.81	276.52	531.91	-4651.13	4681.52	4672.93	544.79	
3200.00	3200.00	12091.00	7864.02	7.06	107.85	350.29	523.85	-89.66	4676.32	4634.53	111.91	
3300.00	3300.00	12091.00	7864.02	7.28	107.85	350.29	523.85	-89.66	4576.98	4534.88	108.73	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10.07.09 Page: 2
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well. Agate PWU 21 #6H, Grd North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath: Db: Sybase

Site: Emerald PWU 20 #2H

Well: PWU 20 #2H

Wellpath: 1 V3

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	Semi-Major Axis TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Edge Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3400 00	3400 00	12091 00	7864 02	7.51	107 85	350.29	523 85	-89 66	4477.67	4435 26	105 58	
3500 00	3500 00	12091 00	7864 02	7.73	107.85	350.29	523 85	-89 66	4378 39	4335 67	102 47	
3600 00	3600 00	12091.00	7864 02	7.96	107.85	350 29	523 85	-89 66	4279 15	4236 10	99.39	
3700 00	3700 00	12091.00	7864 02	8.18	107.85	350.29	523.85	-89 66	4179 94	4136 56	96 34	
3800 00	3800 00	12091.00	7864.02	8 41	107.85	350.29	523 85	-89.66	4080 78	4037 05	93 33	
3900 00	3900 00	12091.00	7864 02	8.63	107.85	350 29	523.85	-89 66	3981 65	3937.57	90.34	
4000 00	4000.00	12091 00	7864.02	8.86	107 85	350.29	523 85	-89 66	3882 57	3838 13	87.38	
4100 00	4100.00	12091 00	7864 02	9.08	107 85	350.29	523.85	-89 66	3783.53	3738.73	84.46	
4200 00	4200.00	12091 00	7864.02	9.31	107.85	350 29	523 85	-89 66	3684 55	3639 37	81 56	
4300 00	4300 00	12091 00	7864.02	9.53	107 85	350 29	523 85	-89 66	3585 63	3540 06	78.69	
4400.00	4400 00	12091 00	7864.02	9 76	107 85	350 29	523 85	-89 66	3486.76	3440 79	75.84	
4500 00	4500.00	12091.00	7864.02	9 98	107 85	350 29	523.85	-89 66	3387.96	3341.57	73 03	
4600 00	4600.00	12091.00	7864.02	10 21	107 85	350 29	523.85	-89 66	3289 24	3242 41	70 24	
4700 00	4700.00	12091 00	7864.02	10 43	107 85	350.29	523.85	-89 66	3190.59	3143 31	67.48	
4800 00	4800 00	12091.00	7864.02	10 66	107 85	350 29	523.85	-89 66	3092 04	3044 28	64.75	
4900 00	4900.00	12091 00	7864.02	10 88	107 85	350.29	523.85	-89 66	2993.57	2945 32	62 04	
5000.00	5000.00	12091 00	7864.02	11 10	107 85	350 29	523.85	-89 66	2895.22	2846 44	59 36	
5100.00	5100 00	12091 00	7864.02	11 33	107 85	350 29	523 85	-89 66	2796.98	2747.65	56 70	
5200 00	5200.00	12091 00	7864.02	11.55	107 85	350 29	523.85	-89 66	2698.87	2648.95	54 07	
5300 00	5300 00	12091 00	7864.02	11 78	107 85	350 29	523.85	-89 66	2600.90	2550 36	51 47	
5400 00	5400 00	12091 00	7864.02	12 00	107 85	350 29	523.85	-89 66	2503.09	2451.89	48 89	
5500 00	5500.00	12091 00	7864 02	12.23	107 85	350 29	523.85	-89.66	2405 47	2353.55	46.34	
5600 00	5600.00	12091 00	7864 02	12 45	107 85	350 29	523.85	-89 66	2308.04	2255 36	43.81	
5700 00	5700 00	12091 00	7864.02	12 68	107 85	350 29	523.85	-89.66	2210 85	2157.34	41.32	
5800 00	5800 00	12091 00	7864.02	12.90	107 85	350 29	523 85	-89 66	2113 92	2059 50	38.85	
5900 00	5900 00	12091 00	7864 02	13 13	107 85	350 29	523.85	-89 66	2017.29	1961.88	36 41	
6000 00	6000 00	12091 00	7864 02	13 35	107 85	350 29	523.85	-89.66	1921 00	1864.51	34 00	
6100 00	6100 00	12091 00	7864 02	13 58	107 85	350 29	523.85	-89.66	1825.11	1767 42	31 63	
6200 00	6200 00	12091 00	7864 02	13 80	107 85	350.29	523.85	-89 66	1729.69	1670 66	29.30	
6300 00	6300.00	12091 00	7864.02	14.03	107 85	350 29	523 85	-89 66	1634.82	1574.28	27 01	
6400 00	6399 99	12091 00	7864 02	14 25	107.85	253 57	523.85	-89 66	1540.63	1478 41	24 76	
6500 00	6499 01	12091 00	7864.02	14 47	107 85	233 07	523 85	-89.66	1448.98	1384 94	22 63	
6600 00	6594.27	12091 00	7864.02	14 71	107 85	220 96	523 85	-89.66	1363.51	1297 73	20 73	
6700 00	6682.87	12091 00	7864 02	14 99	107.85	213 96	523 85	-89.66	1288 32	1220.94	19 12	
6800.00	6762 12	12091 00	7864.02	15 37	107 85	209 91	523 85	-89 66	1227.75	1158.91	17 83	
6900 00	6829 62	12091 00	7864 02	15.96	107.85	207.68	523.85	-89.66	1186.01	1115.83	16 90	
7000 00	6883.30	12091 00	7864 02	16.83	107.85	206.76	523 85	-89 66	1166.43	1094.99	16 33	
7100 00	6921.54	12091 00	7864.02	18 02	107.85	206.95	523 85	-89 66	1170.73	1098 01	16 10	
7200 00	6943 19	12091.00	7864 02	19 54	107 85	208.31	523 85	-89 66	1198.53	1124 38	16 16	
7300 00	6947 73	12091 00	7864.02	21 30	107 85	210.62	523 85	-89 66	1247.33	1171 57	16 46	
7400 00	6945 75	12091 00	7864.02	23.25	107 85	210.62	523.85	-89 66	1306.59	1229 64	16.98	
7500 00	6943 78	12091 00	7864.02	25 34	107 85	210.62	523.85	-89 66	1370 58	1292 36	17 52	
7600 00	6941 80	12091 00	7864.02	27 55	107.85	210 62	523 85	-89 66	1438 69	1359 11	18 08	
7700 00	6939 83	12091.00	7864.02	29 86	107.85	210.62	523 85	-89.66	1510 35	1429.37	18 65	
7800 00	6937.85	12091.00	7864 02	32 23	107.85	210.62	523 85	-89.66	1585 08	1502 64	19.23	
7900 00	6935.88	12091.00	7864.02	34 66	107.85	210.62	523 85	-89 66	1662 47	1578 54	19 81	
8000 00	6933.90	12091.00	7864.02	37 14	107.85	210 62	523 85	-89 66	1742 17	1656 71	20.39	
8100.00	6931 93	12091 00	7864 02	39 65	107 85	210 62	523 85	-89 66	1823 86	1736 86	20 96	
8200 00	6929 95	12091 00	7864.02	42 19	107.85	210 62	523 85	-89 66	1907 30	1818 73	21 53	
8300.00	6927 98	12091 00	7864.02	44 76	107.85	210.62	523 85	-89 66	1992.27	1902 11	22 10	
8400.00	6926 00	12091 00	7864.02	47 35	107 85	210.62	523 85	-89 66	2078.57	1986 81	22.65	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012

Time: 10 07.09

Page: 3

Co-ordinate(NE) Reference: Well, Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0

Db: Sybase

Site: Emerald PWU 20 #2H

Well: PWU 20 #2H

Wellpath: 1 V3

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Location North ft	East ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
8500.00	6924.03	12091.00	7864.02	49.95	107.85	210.62	523.85	-89.66	2166.05	2072.68	23.20	
8600.00	6922.05	12091.00	7864.02	52.58	107.85	210.62	523.85	-89.66	2254.58	2159.58	23.73	
8700.00	6920.08	12091.00	7864.02	55.21	107.85	210.62	523.85	-89.66	2344.02	2247.39	24.26	
8800.00	6918.10	12091.00	7864.02	57.86	107.85	210.62	523.85	-89.66	2434.29	2336.02	24.77	
8900.00	6916.12	12091.00	7864.02	60.51	107.85	210.62	523.85	-89.66	2525.29	2425.37	25.27	
9000.00	6916.44	12091.00	7864.02	63.18	107.85	207.75	523.85	-89.66	2616.14	2516.74	26.32	
9100.00	6919.20	12091.00	7864.02	65.85	107.85	207.75	523.85	-89.66	2706.77	2605.62	26.76	
9200.00	6921.97	12091.00	7864.02	68.53	107.85	207.75	523.85	-89.66	2798.05	2695.13	27.19	
9300.00	6924.73	12091.00	7864.02	71.21	107.85	207.75	523.85	-89.66	2889.89	2785.21	27.61	
9400.00	6927.49	12091.00	7864.02	73.90	107.85	207.75	523.85	-89.66	2982.27	2875.81	28.01	
9500.00	6930.25	12091.00	7864.02	76.60	107.85	207.75	523.85	-89.66	3075.12	2966.89	28.41	
9600.00	6933.01	12091.00	7864.02	79.29	107.85	207.75	523.85	-89.66	3168.40	3058.39	28.80	
9700.00	6935.77	12091.00	7864.02	82.00	107.85	207.75	523.85	-89.66	3262.09	3150.29	29.18	
9800.00	6938.53	12091.00	7864.02	84.70	107.85	207.75	523.85	-89.66	3356.13	3242.54	29.55	
9900.00	6941.29	12091.00	7864.02	87.41	107.85	207.75	523.85	-89.66	3450.52	3335.13	29.90	
10000.00	6944.05	12091.00	7864.02	90.12	107.85	207.75	523.85	-89.66	3545.21	3428.03	30.25	
10100.00	6946.81	12091.00	7864.02	92.84	107.85	207.75	523.85	-89.66	3640.18	3521.20	30.59	
10200.00	6949.57	12091.00	7864.02	95.55	107.85	207.75	523.85	-89.66	3735.42	3614.63	30.93	
10300.00	6952.33	12091.00	7864.02	98.27	107.85	207.75	523.85	-89.66	3830.90	3708.30	31.25	
10400.00	6955.09	12091.00	7864.02	100.99	107.85	207.75	523.85	-89.66	3926.60	3802.20	31.56	
10500.00	6957.85	12091.00	7864.02	103.71	107.85	207.75	523.85	-89.66	4022.52	3896.30	31.87	
10600.00	6960.61	12091.00	7864.02	106.44	107.85	207.75	523.85	-89.66	4118.62	3990.59	32.17	
10700.00	6963.37	12091.00	7864.02	109.16	107.85	207.75	523.85	-89.66	4214.91	4085.06	32.46	
10800.00	6966.13	12091.00	7864.02	111.89	107.85	207.75	523.85	-89.66	4311.37	4179.69	32.74	
10900.00	6968.89	12091.00	7864.02	114.62	107.85	207.75	523.85	-89.66	4407.99	4274.49	33.02	
11000.00	6971.65	12091.00	7864.02	117.35	107.85	207.75	523.85	-89.66	4504.75	4369.43	33.29	
11100.00	6974.41	12091.00	7864.02	120.08	107.85	207.75	523.85	-89.66	4601.65	4464.50	33.55	
11200.00	6977.17	12091.00	7864.02	122.81	107.85	207.75	523.85	-89.66	4698.68	4559.70	33.81	
11300.00	6979.93	12091.00	7864.02	125.54	107.85	207.75	523.85	-89.66	4795.84	4655.03	34.06	
11400.00	6982.69	12091.00	7864.02	128.27	107.85	207.75	523.85	-89.66	4893.11	4750.46	34.30	
11500.00	6985.45	12091.00	7864.02	131.01	107.85	207.75	523.85	-89.66	4990.48	4846.00	34.54	
11600.00	6988.21	12091.00	7864.02	133.74	107.85	207.75	523.85	-89.66	5087.96	4941.65	34.77	
11700.00	6990.98	12091.00	7864.02	136.48	107.85	207.75	523.85	-89.66	5185.54	5037.38	35.00	
11800.00	6993.74	12091.00	7864.02	139.21	107.85	207.75	523.85	-89.66	5283.20	5133.21	35.22	
11900.00	6996.50	12091.00	7864.02	141.95	107.85	207.75	523.85	-89.66	5380.95	5229.12	35.44	
12000.00	6999.26	12091.00	7864.02	144.69	107.85	207.75	523.85	-89.66	5478.78	5325.11	35.65	
12100.00	7002.02	12091.00	7864.02	147.43	107.85	207.75	523.85	-89.66	5576.69	5421.18	35.86	
12200.00	7004.78	12091.00	7864.02	150.17	107.85	207.75	523.85	-89.66	5674.67	5517.32	36.06	
12300.00	7007.54	12091.00	7864.02	152.90	107.85	207.75	523.85	-89.66	5772.73	5613.53	36.26	
12400.00	7010.30	12091.00	7864.02	155.64	107.85	207.75	523.85	-89.66	5870.84	5709.81	36.46	
12500.00	7013.06	12091.00	7864.02	158.39	107.85	207.75	523.85	-89.66	5969.02	5806.14	36.65	
12600.00	7015.82	12091.00	7864.02	161.13	107.85	207.75	523.85	-89.66	6067.26	5902.54	36.83	
12700.00	7018.58	12091.00	7864.02	163.87	107.85	207.75	523.85	-89.66	6165.56	5998.99	37.02	
12800.00	7021.34	12091.00	7864.02	166.61	107.85	207.75	523.85	-89.66	6263.90	6095.49	37.19	
12900.00	7024.10	12091.00	7864.02	169.35	107.85	207.75	523.85	-89.66	6362.31	6192.05	37.37	
13000.00	7026.86	12091.00	7864.02	172.09	107.85	207.75	523.85	-89.66	6460.76	6288.65	37.54	
13100.00	7029.62	12091.00	7864.02	174.84	107.85	207.75	523.85	-89.66	6559.25	6385.31	37.71	
13200.00	7032.38	12091.00	7864.02	177.58	107.85	207.75	523.85	-89.66	6657.79	6482.01	37.87	
13300.00	7035.14	12091.00	7864.02	180.32	107.85	207.75	523.85	-89.66	6756.38	6578.75	38.04	
13400.00	7037.90	12091.00	7864.02	183.07	107.85	207.75	523.85	-89.66	6855.00	6675.53	38.19	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10:07:09 Page: 4
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath#: Db: Sybase

Site: Emerald PWU 20 #2H
Well: PWU 20 #2H
Wellpath: 1 V3

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
13500.00	7040.23	12091.00	7864.02	185.81	107.85	209.17	523.85	-89.66	6953.73	6769.07	37.66	
13600.00	7042.15	12091.00	7864.02	188.56	107.85	209.17	523.85	-89.66	7052.55	6866.04	37.81	
13700.00	7044.07	12091.00	7864.02	191.30	107.85	209.17	523.85	-89.66	7151.39	6963.04	37.97	
13800.00	7046.00	12091.00	7864.02	194.05	107.85	209.17	523.85	-89.66	7250.28	7060.07	38.12	
13900.00	7047.92	12091.00	7864.02	196.79	107.85	209.17	523.85	-89.66	7349.19	7157.14	38.27	
14000.00	7049.84	12091.00	7864.02	199.54	107.85	209.17	523.85	-89.66	7448.13	7254.24	38.41	
14100.00	7051.77	12091.00	7864.02	202.29	107.85	209.17	523.85	-89.66	7547.09	7351.36	38.56	
14200.00	7053.69	12091.00	7864.02	205.03	107.85	209.17	523.85	-89.66	7646.09	7448.51	38.70	
14300.00	7055.62	12091.00	7864.02	207.78	107.85	209.17	523.85	-89.66	7745.11	7545.69	38.84	
14400.00	7057.54	12091.00	7864.02	210.53	107.85	209.17	523.85	-89.66	7844.16	7642.90	38.98	
14500.00	7059.46	12091.00	7864.02	213.27	107.85	209.17	523.85	-89.66	7943.22	7740.13	39.11	
14600.00	7061.39	12091.00	7864.02	216.02	107.85	209.17	523.85	-89.66	8042.32	7837.39	39.24	
14700.00	7063.31	12091.00	7864.02	218.77	107.85	209.17	523.85	-89.66	8141.43	7934.67	39.38	
14800.00	7065.23	12091.00	7864.02	221.51	107.85	209.17	523.85	-89.66	8240.57	8031.97	39.50	
14900.00	7067.16	12091.00	7864.02	224.26	107.85	209.17	523.85	-89.66	8339.72	8129.30	39.63	
15000.00	7069.08	12091.00	7864.02	227.01	107.85	209.17	523.85	-89.66	8438.90	8226.64	39.76	
15100.00	7071.01	12091.00	7864.02	229.76	107.85	209.17	523.85	-89.66	8538.10	8324.01	39.88	
15200.00	7072.93	12091.00	7864.02	232.51	107.85	209.17	523.85	-89.66	8637.31	8421.40	40.00	
15300.00	7074.85	12091.00	7864.02	235.26	107.85	209.17	523.85	-89.66	8736.54	8518.81	40.13	
15400.00	7076.78	12091.00	7864.02	238.00	107.85	209.17	523.85	-89.66	8835.79	8616.24	40.24	
15500.00	7078.70	12091.00	7864.02	240.75	107.85	209.17	523.85	-89.66	8935.06	8713.69	40.36	
15600.00	7080.63	12091.00	7864.02	243.50	107.85	209.17	523.85	-89.66	9034.34	8811.15	40.48	
15700.00	7082.55	12091.00	7864.02	246.25	107.85	209.17	523.85	-89.66	9133.64	8908.63	40.59	
15800.00	7084.47	12091.00	7864.02	249.00	107.85	209.17	523.85	-89.66	9232.95	9006.14	40.71	
15900.00	7086.40	12091.00	7864.02	251.75	107.85	209.17	523.85	-89.66	9332.28	9103.65	40.82	
16000.00	7088.32	12091.00	7864.02	254.50	107.85	209.17	523.85	-89.66	9431.62	9201.19	40.93	
16100.00	7090.24	12091.00	7864.02	257.25	107.85	209.17	523.85	-89.66	9530.98	9298.74	41.04	
16200.00	7092.17	12091.00	7864.02	260.00	107.85	209.17	523.85	-89.66	9630.35	9396.31	41.15	
16300.00	7094.09	12091.00	7864.02	262.75	107.85	209.17	523.85	-89.66	9729.73	9493.89	41.26	
16400.00	7096.02	12091.00	7864.02	265.50	107.85	209.17	523.85	-89.66	9829.13	9591.49	41.36	
16500.00	7097.94	12091.00	7864.02	268.25	107.85	209.17	523.85	-89.66	9928.53	9689.10	41.47	

Site: Emerald PWU 20 #3H
Well: 20 #3H
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	17.86	17.86	0.00	0.02	260.13	-820.94	-4719.22	4790.09			No Data
100.00	100.00	130.25	130.25	0.09	0.19	260.15	-819.75	-4719.11	4789.81	4789.52	16793.38	
200.00	200.00	249.02	248.99	0.32	0.51	260.17	-817.36	-4719.00	4789.38	4788.56	5803.41	
300.00	300.00	377.51	377.42	0.54	0.85	260.22	-813.42	-4718.25	4788.26	4786.87	3441.84	
400.00	400.00	482.08	481.93	0.77	1.13	260.26	-810.14	-4717.40	4786.93	4785.04	2528.56	
500.00	500.00	598.83	598.62	0.99	1.43	260.29	-806.93	-4716.08	4785.36	4782.93	1974.16	
600.00	600.00	748.84	748.57	1.21	1.81	260.33	-803.48	-4713.12	4783.00	4779.98	1581.96	
700.00	700.00	854.68	854.35	1.44	2.07	260.35	-801.23	-4710.39	4780.10	4776.59	1362.89	
800.00	800.00	947.00	946.62	1.66	2.30	260.36	-799.37	-4708.00	4777.21	4773.25	1205.91	
900.00	900.00	1030.90	1030.48	1.89	2.51	260.38	-797.70	-4706.06	4774.60	4770.20	1085.49	
1000.00	1000.00	1112.68	1112.23	2.11	2.72	260.39	-796.25	-4704.44	4772.35	4767.52	987.36	
1100.00	1100.00	1194.08	1193.61	2.34	2.93	260.41	-794.95	-4703.13	4770.50	4765.23	905.31	
1200.00	1200.00	1282.62	1282.13	2.56	3.17	260.42	-793.77	-4701.94	4768.95	4763.23	833.00	
1300.00	1300.00	1367.04	1366.55	2.79	3.39	260.43	-792.78	-4701.03	4767.69	4761.52	772.56	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012 Time: 10:07 09 Page: 5
Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0
Db: Sybase

Site: Emerald PWU 20 #3H
Well: 20 #3H
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1400 00	1400.00	1460 95	1460 44	3 01	3 63	260 44	-791 81	-4700.22	4766.67	4760 03	717 53	
1500.00	1500 00	1561 46	1560 95	3 24	3 89	260 44	-791 11	-4699.35	4765 70	4758.58	668 80	
1600 00	1600 00	1654.37	1653 85	3 46	4 13	260 45	-790.57	-4698.58	4764.79	4757.20	627 91	
1700 00	1700 00	1756 18	1755 66	3 69	4 40	260 46	-789 89	-4697 83	4763 95	4755.87	589 69	
1800 00	1800.00	1850.83	1850 31	3.91	4 64	260 46	-789 23	-4697 15	4763.13	4754.58	556 93	
1900 00	1900 00	1952 47	1951 94	4.14	4 91	260 47	-788.55	-4696 47	4762 36	4753 32	526 56	
2000.00	2000 00	2052 80	2052 26	4.36	5 17	260 47	-787.96	-4695 75	4761 55	4752 02	499 58	
2100.00	2100 00	2143 94	2143 40	4 59	5 41	260.48	-787.33	-4695 21	4760 85	4750 86	476 29	
2200.00	2200 00	2243 62	2243.08	4.81	5.68	260.49	-786.65	-4694 71	4760 25	4749 76	454 02	
2300.00	2300.00	2346 85	2346.30	5 04	5 95	260 50	-785 95	-4694 15	4759.60	4748 62	433 35	
2400.00	2400 00	2447 77	2447.22	5.26	6 22	260 50	-785 12	-4693 60	4758 92	4747 45	414.72	
2500 00	2500 00	2550 31	2549 76	5 49	6 49	260.51	-784.47	-4692 94	4758 19	4746 22	397.54	
2600 00	2600 00	2648 22	2647 66	5 71	6.74	260 52	-783 96	-4692.31	4757.46	4745.01	382.12	
2700 00	2700 00	2746 49	2745 92	5 93	7.00	260 52	-783 46	-4691 71	4756.78	4743.85	367.82	
2800 00	2800 00	2847 34	2846 77	6 16	7.27	260 52	-782 97	-4691.11	4756.12	4742 69	354.35	
2900 00	2900.00	2950 93	2950.36	6 38	7.54	260 53	-782 41	-4690.45	4755.39	4741 48	341 65	
3000 00	3000 00	3048 83	3048 26	6 61	7.80	260.54	-781.83	-4689.79	4754.63	4740.23	330.15	
3100 00	3100 00	3147 82	3147 24	6.83	8.06	260.54	-781 28	-4689.19	4753 95	4739.06	319 34	
3200 00	3200.00	12303 00	7841 86	7 06	122 08	186.88	-679 20	-81.99	4677.95	4633.63	105 55	
3300 00	3300.00	12303 00	7841 86	7 28	122.08	186.88	-679.20	-81.99	4579 05	4534.33	102 40	
3400 00	3400.00	12303 00	7841 86	7.51	122 08	186 88	-679 20	-81 99	4480 20	4435.07	99 29	
3500 00	3500 00	12303 00	7841 86	7.73	122 08	186 88	-679 20	-81 99	4381 40	4335.85	96 20	
3600.00	3600 00	12303 00	7841 86	7.96	122.08	186 88	-679 20	-81 99	4282 65	4236 68	93 15	
3700.00	3700.00	12303.00	7841.86	8.18	122 08	186 88	-679 20	-81 99	4183 97	4137 55	90 13	
3800 00	3800.00	12303.00	7841 86	8.41	122 08	186 88	-679 20	-81 99	4085 35	4038 47	87 14	
3900 00	3900.00	12303 00	7841 86	8.63	122.08	186 88	-679 20	-81.99	3986 79	3939 44	84 19	
4000.00	4000 00	12303 00	7841 86	8.86	122.08	186.88	-679.20	-81 99	3888 31	3840 47	81 26	
4100 00	4100 00	12303 00	7841 86	9 08	122.08	186.88	-679.20	-81 99	3789 91	3741 56	78 37	
4200 00	4200 00	12303 00	7841 86	9.31	122.08	186.88	-679 20	-81 99	3691 60	3642.71	75 51	
4300 00	4300 00	12303 00	7841 86	9 53	122.08	186.88	-679.20	-81 99	3593.38	3543 94	72 67	
4400 00	4400 00	12303.00	7841 86	9 76	122 08	186.88	-679.20	-81 99	3495 26	3445.24	69.87	
4500 00	4500.00	12303.00	7841 86	9 98	122 08	186 88	-679 20	-81 99	3397 25	3346 62	67 10	
4600 00	4600.00	12303 00	7841 86	10.21	122 08	186 88	-679.20	-81 99	3299 36	3248.10	64 35	
4700 00	4700 00	12303 00	7841 86	10.43	122.08	186 88	-679.20	-81.99	3201 60	3149 67	61 64	
4800 00	4800 00	12303 00	7841 86	10 66	122.08	186 88	-679 20	-81.99	3103.99	3051.34	58 96	
4900 00	4900 00	12303.00	7841 86	10.88	122 08	186 88	-679.20	-81.99	3006 53	2953.14	56 31	
5000 00	5000 00	12303 00	7841 86	11.10	122 08	186 88	-679.20	-81.99	2909 24	2855.06	53 70	
5100 00	5100 00	12303 00	7841 86	11.33	122 08	186 88	-679.20	-81.99	2812 14	2757.12	51 11	
5200 00	5200 00	12303 00	7841 86	11.55	122 08	186 88	-679.20	-81.99	2715.26	2659.34	48 56	
5300 00	5300 00	12303 00	7841 86	11.78	122 08	186 88	-679 20	-81.99	2618 60	2561.73	46 04	
5400.00	5400 00	12303 00	7841 86	12.00	122 08	186 88	-679 20	-81.99	2522.21	2464.31	43 56	
5500 00	5500.00	12303 00	7841 86	12.23	122.08	186 88	-679 20	-81.99	2426.11	2367 10	41 11	
5600 00	5600 00	12303 00	7841 86	12.45	122.08	186.88	-679 20	-81.99	2330.34	2270.14	38 71	
5700 00	5700.00	12303 00	7841 86	12.68	122 08	186.88	-679 20	-81 99	2234.94	2173.44	36 34	
5800.00	5800 00	12303 00	7841 86	12.90	122 08	186.88	-679.20	-81.99	2139.96	2077.06	34 02	
5900.00	5900 00	12303 00	7841 86	13.13	122 08	186.88	-679 20	-81.99	2045.46	1981.02	31 74	
6000 00	6000 00	12303 00	7841.86	13.35	122 08	186 88	-679 20	-81.99	1951.50	1885.38	29 51	
6100.00	6100.00	12303 00	7841 86	13 58	122.08	186 88	-679 20	-81 99	1858.18	1790 21	27 34	
6200.00	6200 00	12303 00	7841 86	13 80	122 08	186 88	-679 20	-81.99	1765 59	1695.58	25.22	
6300 00	6300 00	12303 00	7841 86	14 03	122 08	186 88	-679.20	-81.99	1673.85	1601 59	23 16	
6400 00	6399 99	12303 00	7841 86	14 25	122 08	101 83	-679.20	-81 99	1583 15	1508 38	21 18	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012

Time: 10 07 09

Page: 6

Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0

Db: Sybase

Site: Emerald PWU 20 #3H

Well: 20 #3H

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-IIS	Offset Location North	East	Ctr-Ctr Edge Distance	Separation Distance	Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
6500.00	6499.01	12303.00	7841.86	14.47	122.08	119.12	-679.20	-81.99	1495.22	1417.75	19.30	
6600.00	6594.27	12303.00	7841.86	14.71	122.08	130.77	-679.20	-81.99	1413.55	1333.41	17.64	
6700.00	6682.87	12303.00	7841.86	14.99	122.08	138.12	-679.20	-81.99	1341.99	1259.34	16.24	
6800.00	6762.12	12303.00	7841.86	15.37	122.08	142.63	-679.20	-81.99	1284.55	1199.63	15.13	
6900.00	6829.62	12303.00	7841.86	15.96	122.08	145.18	-679.20	-81.99	1245.05	1158.08	14.32	
7000.00	6883.30	12303.00	7841.86	16.83	122.08	146.25	-679.20	-81.99	1226.44	1137.65	13.81	
7100.00	6921.54	12303.00	7841.86	18.02	122.08	146.04	-679.20	-81.99	1230.26	1139.78	13.60	
7200.00	6943.19	12303.00	7841.86	19.54	122.08	144.50	-679.20	-81.99	1256.18	1164.02	13.63	
7300.00	6947.73	12303.00	7841.86	21.30	122.08	141.89	-679.20	-81.99	1302.03	1208.21	13.88	
7400.00	6945.75	12303.00	7841.86	23.25	122.08	141.89	-679.20	-81.99	1358.04	1263.12	14.31	
7500.00	6943.78	12303.00	7841.86	25.34	122.08	141.89	-679.20	-81.99	1418.90	1322.76	14.76	
7600.00	6941.80	12303.00	7841.86	27.55	122.08	141.89	-679.20	-81.99	1484.01	1386.57	15.23	
7700.00	6939.83	12303.00	7841.86	29.86	122.08	141.89	-679.20	-81.99	1552.83	1454.03	15.72	
7800.00	6937.85	12303.00	7841.86	32.23	122.08	141.89	-679.20	-81.99	1624.89	1524.67	16.21	
7900.00	6935.88	12303.00	7841.86	34.66	122.08	141.89	-679.20	-81.99	1699.79	1598.11	16.72	
8000.00	6933.90	12303.00	7841.86	37.14	122.08	141.89	-679.20	-81.99	1777.15	1673.99	17.23	
8100.00	6931.93	12303.00	7841.86	39.65	122.08	141.89	-679.20	-81.99	1856.69	1752.00	17.74	
8200.00	6929.95	12303.00	7841.86	42.19	122.08	141.89	-679.20	-81.99	1938.11	1831.89	18.25	
8300.00	6927.98	12303.00	7841.86	44.76	122.08	141.89	-679.20	-81.99	2021.21	1913.42	18.75	
8400.00	6926.00	12303.00	7841.86	47.35	122.08	141.89	-679.20	-81.99	2105.77	1996.41	19.26	
8500.00	6924.03	12303.00	7841.86	49.95	122.08	141.89	-679.20	-81.99	2191.64	2080.69	19.75	
8600.00	6922.05	12303.00	7841.86	52.58	122.08	141.89	-679.20	-81.99	2278.66	2166.11	20.25	
8700.00	6920.08	12303.00	7841.86	55.21	122.08	141.89	-679.20	-81.99	2366.70	2252.54	20.73	
8800.00	6918.10	12303.00	7841.86	57.86	122.08	141.89	-679.20	-81.99	2455.66	2339.88	21.21	
8900.00	6916.12	12303.00	7841.86	60.51	122.08	141.89	-679.20	-81.99	2545.44	2428.03	21.68	
9000.00	6916.44	12303.00	7841.86	63.18	122.08	145.17	-679.20	-81.99	2635.17	2518.51	22.59	
9100.00	6919.20	12303.00	7841.86	65.85	122.08	145.17	-679.20	-81.99	2724.78	2606.37	23.01	
9200.00	6921.97	12303.00	7841.86	68.53	122.08	145.17	-679.20	-81.99	2815.08	2694.92	23.43	
9300.00	6924.73	12303.00	7841.86	71.21	122.08	145.17	-679.20	-81.99	2906.02	2784.09	23.83	
9400.00	6927.49	12303.00	7841.86	73.90	122.08	145.17	-679.20	-81.99	2997.54	2873.84	24.23	
9500.00	6930.25	12303.00	7841.86	76.60	122.08	145.17	-679.20	-81.99	3089.58	2964.12	24.63	
9600.00	6933.01	12303.00	7841.86	79.29	122.08	145.17	-679.20	-81.99	3182.10	3054.87	25.01	
9700.00	6935.77	12303.00	7841.86	82.00	122.08	145.17	-679.20	-81.99	3275.07	3146.05	25.39	
9800.00	6938.53	12303.00	7841.86	84.70	122.08	145.17	-679.20	-81.99	3368.43	3237.64	25.75	
9900.00	6941.29	12303.00	7841.86	87.41	122.08	145.17	-679.20	-81.99	3462.17	3329.59	26.11	
10000.00	6944.05	12303.00	7841.86	90.12	122.08	145.17	-679.20	-81.99	3556.25	3421.88	26.47	
10100.00	6946.81	12303.00	7841.86	92.84	122.08	145.17	-679.20	-81.99	3650.64	3514.49	26.81	
10200.00	6949.57	12303.00	7841.86	95.55	122.08	145.17	-679.20	-81.99	3745.32	3607.38	27.15	
10300.00	6952.33	12303.00	7841.86	98.27	122.08	145.17	-679.20	-81.99	3840.27	3700.54	27.48	
10400.00	6955.09	12303.00	7841.86	100.99	122.08	145.17	-679.20	-81.99	3935.48	3793.94	27.81	
10500.00	6957.85	12303.00	7841.86	103.71	122.08	145.17	-679.20	-81.99	4030.91	3887.58	28.12	
10600.00	6960.61	12303.00	7841.86	106.44	122.08	145.17	-679.20	-81.99	4126.56	3981.43	28.43	
10700.00	6963.37	12303.00	7841.86	109.16	122.08	145.17	-679.20	-81.99	4222.42	4075.48	28.74	
10800.00	6966.13	12303.00	7841.86	111.89	122.08	145.17	-679.20	-81.99	4318.46	4169.72	29.03	
10900.00	6968.89	12303.00	7841.86	114.62	122.08	145.17	-679.20	-81.99	4414.67	4264.13	29.32	
11000.00	6971.65	12303.00	7841.86	117.35	122.08	145.17	-679.20	-81.99	4511.06	4358.70	29.61	
11100.00	6974.41	12303.00	7841.86	120.08	122.08	145.17	-679.20	-81.99	4607.59	4453.43	29.89	
11200.00	6977.17	12303.00	7841.86	122.81	122.08	145.17	-679.20	-81.99	4704.27	4548.30	30.16	
11300.00	6979.93	12303.00	7841.86	125.54	122.08	145.17	-679.20	-81.99	4801.09	4643.30	30.43	
11400.00	6982.69	12303.00	7841.86	128.27	122.08	145.17	-679.20	-81.99	4898.03	4738.44	30.69	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10:07:09 Page: 7
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336 0
Reference Wellpath#: Db: Sybase

Site: Emerald PWU 20 #3H
Well: 20 #3H
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11500.00	6985.45	12303.00	7841.86	131.01	122.08	145.17	-679.20	-81.99	4995.10	4833.68	30.95	
11600.00	6988.21	12303.00	7841.86	133.74	122.08	145.17	-679.20	-81.99	5092.28	4929.05	31.20	
11700.00	6990.98	12303.00	7841.86	136.48	122.08	145.17	-679.20	-81.99	5189.56	5024.51	31.44	
11800.00	6993.74	12303.00	7841.86	139.21	122.08	145.17	-679.20	-81.99	5286.95	5120.08	31.68	
11900.00	6996.50	12303.00	7841.86	141.95	122.08	145.17	-679.20	-81.99	5384.43	5215.74	31.92	
12000.00	6999.26	12303.00	7841.86	144.69	122.08	145.17	-679.20	-81.99	5482.00	5311.49	32.15	
12100.00	7002.02	12303.00	7841.86	147.43	122.08	145.17	-679.20	-81.99	5579.66	5407.33	32.38	
12200.00	7004.78	12303.00	7841.86	150.17	122.08	145.17	-679.20	-81.99	5677.40	5503.24	32.60	
12300.00	7007.54	12303.00	7841.86	152.90	122.08	145.17	-679.20	-81.99	5775.22	5599.24	32.82	
12400.00	7010.30	12303.00	7841.86	155.64	122.08	145.17	-679.20	-81.99	5873.11	5695.30	33.03	
12500.00	7013.06	12303.00	7841.86	158.39	122.08	145.17	-679.20	-81.99	5971.08	5791.43	33.24	
12600.00	7015.82	12303.00	7841.86	161.13	122.08	145.17	-679.20	-81.99	6069.10	5887.63	33.44	
12700.00	7018.58	12303.00	7841.86	163.87	122.08	145.17	-679.20	-81.99	6167.19	5983.89	33.64	
12800.00	7021.34	12303.00	7841.86	166.61	122.08	145.17	-679.20	-81.99	6265.35	6080.21	33.84	
12900.00	7024.10	12303.00	7841.86	169.35	122.08	145.17	-679.20	-81.99	6363.56	6176.59	34.04	
13000.00	7026.86	12303.00	7841.86	172.09	122.08	145.17	-679.20	-81.99	6461.82	6273.02	34.22	
13100.00	7029.62	12303.00	7841.86	174.84	122.08	145.17	-679.20	-81.99	6560.14	6369.50	34.41	
13200.00	7032.38	12303.00	7841.86	177.58	122.08	145.17	-679.20	-81.99	6658.50	6466.03	34.59	
13300.00	7035.14	12303.00	7841.86	180.32	122.08	145.17	-679.20	-81.99	6756.92	6562.60	34.77	
13400.00	7037.90	12303.00	7841.86	183.07	122.08	145.17	-679.20	-81.99	6855.38	6659.22	34.95	
13500.00	7040.66	12303.00	7841.86	185.81	122.08	143.54	-679.20	-81.99	6953.94	6752.24	34.48	
13600.00	7043.42	12303.00	7841.86	188.56	122.08	143.54	-679.20	-81.99	7052.60	6849.05	34.65	
13700.00	7046.18	12303.00	7841.86	191.30	122.08	143.54	-679.20	-81.99	7151.30	6945.89	34.82	
13800.00	7048.94	12303.00	7841.86	194.05	122.08	143.54	-679.20	-81.99	7250.03	7042.77	34.98	
13900.00	7051.70	12303.00	7841.86	196.79	122.08	143.54	-679.20	-81.99	7348.79	7139.68	35.14	
14000.00	7054.46	12303.00	7841.86	199.54	122.08	143.54	-679.20	-81.99	7447.59	7236.63	35.30	
14100.00	7057.22	12303.00	7841.86	202.29	122.08	143.54	-679.20	-81.99	7546.42	7333.61	35.46	
14200.00	7060.00	12303.00	7841.86	205.03	122.08	143.54	-679.20	-81.99	7645.28	7430.61	35.61	
14300.00	7062.76	12303.00	7841.86	207.78	122.08	143.54	-679.20	-81.99	7744.17	7527.65	35.77	
14400.00	7065.52	12303.00	7841.86	210.53	122.08	143.54	-679.20	-81.99	7843.09	7624.71	35.91	
14500.00	7068.28	12303.00	7841.86	213.27	122.08	143.54	-679.20	-81.99	7942.04	7721.80	36.06	
14600.00	7071.04	12303.00	7841.86	216.02	122.08	143.54	-679.20	-81.99	8041.01	7818.91	36.20	
14700.00	7073.80	12303.00	7841.86	218.77	122.08	143.54	-679.20	-81.99	8140.00	7916.05	36.35	
14800.00	7076.56	12303.00	7841.86	221.51	122.08	143.54	-679.20	-81.99	8239.02	8013.21	36.49	
14900.00	7079.32	12303.00	7841.86	224.26	122.08	143.54	-679.20	-81.99	8338.07	8110.39	36.62	
15000.00	7082.08	12303.00	7841.86	227.01	122.08	143.54	-679.20	-81.99	8437.13	8207.60	36.76	
15100.00	7084.84	12303.00	7841.86	229.76	122.08	143.54	-679.20	-81.99	8536.22	8304.83	36.89	
15200.00	7087.60	12303.00	7841.86	232.51	122.08	143.54	-679.20	-81.99	8635.33	8402.07	37.02	
15300.00	7090.36	12303.00	7841.86	235.26	122.08	143.54	-679.20	-81.99	8734.46	8499.34	37.15	
15400.00	7093.12	12303.00	7841.86	238.00	122.08	143.54	-679.20	-81.99	8833.61	8596.63	37.28	
15500.00	7095.88	12303.00	7841.86	240.75	122.08	143.54	-679.20	-81.99	8932.78	8693.93	37.40	
15600.00	7098.64	12303.00	7841.86	243.50	122.08	143.54	-679.20	-81.99	9031.97	8791.25	37.52	
15700.00	7101.40	12303.00	7841.86	246.25	122.08	143.54	-679.20	-81.99	9131.17	8888.59	37.64	
15800.00	7104.16	12303.00	7841.86	249.00	122.08	143.54	-679.20	-81.99	9230.39	8985.95	37.76	
15900.00	7106.92	12303.00	7841.86	251.75	122.08	143.54	-679.20	-81.99	9329.63	9083.32	37.88	
16000.00	7109.68	12303.00	7841.86	254.50	122.08	143.54	-679.20	-81.99	9428.88	9180.70	37.99	
16100.00	7112.44	12303.00	7841.86	257.25	122.08	143.54	-679.20	-81.99	9528.15	9278.11	38.11	
16200.00	7115.20	12303.00	7841.86	260.00	122.08	143.54	-679.20	-81.99	9627.44	9375.52	38.22	
16300.00	7117.96	12303.00	7841.86	262.75	122.08	143.54	-679.20	-81.99	9726.74	9472.95	38.33	
16400.00	7120.72	12303.00	7841.86	265.50	122.08	143.54	-679.20	-81.99	9826.05	9570.39	38.43	
16500.00	7123.48	12303.00	7841.86	268.25	122.08	143.54	-679.20	-81.99	9925.38	9667.85	38.54	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10.07 09 Page: 8
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath#: Db: Sybase

Site: Emerald PWU 20 #3H
Well: 20 #3H
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference MD	TVD	Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation Distance	Factor	Warning
		MD	TVD	Ref	Offset	TFO-HS	North	East	Distance			

Site: Exist PWU #12
Well: Exist PWU #12
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	North	East	Ctr-Ctr Edge Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0 00	0.00	3 93	3 93	0 00	0 00	70 06	328 27	905.00	962 70			No Data
100 00	100 00	102 27	102 27	0 09	0.02	70.07	328 22	905.12	962.79	962 68	8697 74	
200 00	200 00	203 75	203 75	0 32	0.09	70.08	328 14	905 25	962.89	962.49	2429 94	
300 00	300 00	299.98	299 98	0 54	0 12	70 07	328.29	905 42	963.11	962 47	1512.61	
400 00	400 00	399 18	399 18	0 77	0 15	70 05	328.79	905 72	963.57	962 66	1065 66	
500 00	500 00	497 12	497 12	0 99	0 19	70 02	329.51	906 10	964 17	963 00	818 65	
600 00	600 00	595 44	595.43	1 21	0 24	69 99	330 26	906 66	964 98	963 52	661.99	
700 00	700 00	699 48	699.46	1 44	0 30	69.95	331 06	907 14	965.67	963.94	557 20	
800 00	800 00	795.40	795.38	1 66	0 33	69 90	332 15	907.43	966 35	964 35	484 56	
900 00	900 00	881.48	881 44	1 89	0 38	69.83	333 69	908.32	967.93	965 67	427 60	
1000 00	1000 00	979.32	979 24	2 11	0 43	69.74	335.95	910 18	970.51	967.97	381.78	
1100 00	1100 00	1080.42	1080 30	2 34	0 49	69 66	338 16	912 04	973 01	970.18	344 36	
1200 00	1200 00	1185 80	1185 63	2 56	0 55	69 57	340.40	913 69	975 21	972.10	313 84	
1300 00	1300 00	1282 92	1282 72	2 79	0 60	69 47	342 63	914 89	977 17	973 79	288 94	
1400 00	1400 00	1383 61	1383.38	3 01	0 66	69 37	344 95	916.37	979 36	975 70	267 60	
1500 00	1500 00	1484 19	1483.93	3 24	0 71	69 28	347 21	917.74	981 43	977 49	249.29	
1600 00	1600 00	1586 54	1586 24	3 46	0 77	69 18	349 44	919.02	983.37	979 15	233 21	
1700 00	1700 00	1691 89	1691.57	3 69	0 83	69.10	351 31	920 05	984 92	980.42	218.88	
1800 00	1800 00	1793.02	1792 68	3 91	0 89	69.03	352 96	920 71	986.11	981.33	206.44	
1900 00	1900 00	1895.67	1895 32	4 14	0 95	68 96	354.42	921 27	987 13	982 08	195 35	
2000 00	2000 00	1999 98	1999 62	4 36	1 01	68 89	355.76	921 49	987 79	982 47	185 71	
2100 00	2100 00	2102 47	2102 11	4 59	1 06	68 85	356.57	921.52	988 10	982 52	177 14	
2200 00	2200 00	2198 66	2198 30	4 81	1 11	68.81	357.22	921.67	988.49	982.65	169 32	
2300 00	2300 00	2303 43	2303 06	5 04	1 16	68 76	358.26	921.65	988 83	982 74	162 35	
2400 00	2400 00	2407 99	2407.62	5 26	1 19	68 68	359 45	921.02	988 69	982 37	156.61	
2500 00	2500 00	2511 03	2510.64	5 49	1 19	68.61	360.45	920.05	988.16	981.65	151.74	
2600 00	2600 00	2611 85	2611.46	5 71	1 18	68.55	361 15	918 99	987 44	980 74	147 47	
2700 00	2700 00	2711.09	2710.69	5 93	1 18	68 48	361 87	917 93	986 71	979 83	143 47	
2800 00	2800 00	2809 62	2809 20	6 16	1 19	68 41	362 85	916 94	986 14	979.08	139 66	
2900 00	2900 00	2914 27	2913 84	6 38	1 20	68 32	363.93	915 63	985 35	978 10	135 97	
3000 00	3000 00	3014 52	3014 08	6 61	1 21	68 25	364.76	914 18	984 31	976 90	132.75	
3100 00	3100 00	3112 60	3112 15	6 83	1 22	68 17	365 63	912 89	983 43	975 85	129 74	
3200 00	3200 00	3215 83	3215 36	7 06	1 24	68 08	366 74	911 30	982 39	974 64	126.68	
3300 00	3300 00	3315.01	3314 52	7 28	1 27	67 98	367 91	909 69	981 32	973.39	123.70	
3400 00	3400 00	3418 96	3418.44	7 51	1 30	67.86	369 22	907 65	979 98	971 86	120 66	
3500 00	3500 00	3516.75	3516.20	7 73	1 33	67 75	370 58	905 71	978.67	970.36	117 89	
3600 00	3600 00	3620 07	3619 49	7 96	1 36	67 63	371 89	903.58	977 24	968.76	115 19	
3700 00	3700 00	3721.56	3720 95	8 18	1 40	67 51	373 12	901 20	975.54	966.88	112 64	
3800 00	3800 00	3819 65	3819.00	8 41	1 44	67 38	374.57	898 89	973 92	965 09	110 28	
3900 00	3900 00	3920 39	3919 70	8 63	1 49	67 25	376.04	896 58	972 37	963 37	107 97	
4000 00	4000 00	4022 77	4022 03	8 86	1 53	67.10	377 62	893 94	970 59	961 41	105 70	
4100 00	4100 00	4121 22	4120 44	9 08	1 58	66 97	379 01	891 44	968 81	959 47	103 75	
4200 00	4200 00	4219 68	4218.87	9 31	1 63	66 84	380 34	889.16	967 20	957.69	101.74	
4300 00	4300 00	4318 72	4317 87	9 53	1 68	66 72	381.70	886.96	965.71	955.96	99.11	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 7/2/2012 Time: 10 07 09 Page: 9
Field: Eddy Co , NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336 0
Reference Wellpath: Db: Sybase

Site: Exist PWU #12
Well: Exist PWU #12
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
4400.00	4400.00	4416.91	4416.03	9.76	1.74	66.59	383.05	884.94	964.36	954.36	96.50	
4500.00	4500.00	4514.00	4513.10	9.98	1.80	66.49	384.29	883.24	963.26	953.01	93.96	
4600.00	4600.00	4611.02	4610.10	10.21	1.86	66.37	385.79	881.75	962.47	951.97	91.67	
4700.00	4700.00	4708.71	4707.76	10.43	1.93	66.25	387.48	880.47	961.97	951.23	89.57	
4800.00	4800.00	4809.59	4808.62	10.66	2.00	66.12	389.29	879.21	961.55	950.58	87.62	
4900.00	4900.00	4913.27	4912.28	10.88	2.07	66.00	390.78	877.79	960.88	949.67	85.73	
5000.00	5000.00	5018.96	5017.95	11.10	2.12	65.92	391.65	876.17	959.82	948.36	83.75	
5100.00	5100.00	5131.35	5130.30	11.33	2.16	65.84	391.70	873.37	957.55	945.89	82.15	
5200.00	5200.00	5235.37	5234.27	11.55	2.18	65.79	391.27	870.27	954.66	942.73	80.04	
5300.00	5300.00	5341.32	5340.16	11.78	2.20	65.75	390.43	866.52	951.11	938.92	78.07	
5400.00	5400.00	5440.88	5439.64	12.00	2.22	65.70	389.51	862.70	947.23	934.74	75.86	
5500.00	5500.00	5536.98	5535.68	12.23	2.23	65.69	388.30	859.52	943.69	930.88	73.64	
5600.00	5600.00	5632.16	5630.82	12.45	2.24	65.71	386.66	856.95	940.52	927.35	71.44	
5700.00	5700.00	5724.10	5722.69	12.68	2.24	65.86	383.64	855.88	938.11	924.68	69.86	
5800.00	5800.00	5816.94	5815.45	12.90	2.20	66.07	379.83	855.93	936.50	922.77	68.24	
5900.00	5900.00	5909.80	5908.22	13.13	2.16	66.32	375.80	856.91	935.71	921.70	66.80	
6000.00	6000.00	6011.81	6010.12	13.35	2.08	66.61	371.27	858.26	935.14	920.88	65.57	
6100.00	6100.00	6111.77	6109.99	13.58	1.99	66.87	367.12	859.34	934.49	919.96	64.31	
6200.00	6200.00	6211.08	6209.25	13.80	1.89	67.06	363.95	860.04	933.89	919.08	63.07	
6300.00	6300.00	6310.67	6308.82	14.03	1.81	67.18	361.92	860.32	933.36	918.29	61.91	
6400.00	6399.99	6412.43	6410.57	14.25	1.74	337.06	360.44	860.26	932.24	916.91	60.81	
6500.00	6499.01	6510.91	6509.04	14.47	1.70	336.30	359.18	860.06	919.59	904.21	59.79	
6600.00	6594.27	6605.06	6603.18	14.71	1.66	334.36	358.13	859.88	891.49	876.32	58.77	
6700.00	6682.87	6689.08	6687.20	14.99	1.62	330.99	357.16	860.05	849.28	834.49	57.42	
6800.00	6762.12	6762.83	6760.94	15.37	1.58	325.72	356.34	860.68	794.85	780.37	54.90	
6900.00	6829.62	6828.14	6826.23	15.96	1.53	317.67	355.85	861.61	730.52	715.86	49.83	
7000.00	6883.30	6882.74	6880.83	16.83	1.49	306.11	355.55	862.43	658.95	643.05	41.44	
7100.00	6921.54	6921.85	6919.94	18.02	1.46	291.94	355.38	863.01	584.02	565.92	32.27	
7200.00	6943.19	6944.47	6942.55	19.54	1.44	278.30	355.33	863.33	510.68	490.30	25.06	
7300.00	6947.73	6950.30	6948.38	21.30	1.44	269.70	355.32	863.41	445.07	422.79	19.97	
7400.00	6945.75	6949.74	6947.82	23.25	1.44	269.79	355.32	863.40	393.93	369.68	16.24	
7500.00	6943.78	6949.18	6947.26	25.34	1.44	269.88	355.32	863.40	363.69	337.26	13.76	
7600.00	6941.80	6948.62	6946.71	27.55	1.44	269.97	355.32	863.39	359.66	330.90	12.51	
7700.00	6939.83	6948.07	6946.15	29.86	1.44	270.06	355.32	863.38	382.68	351.50	12.28	
7800.00	6937.85	6947.52	6945.60	32.23	1.44	270.14	355.32	863.37	428.40	394.78	12.74	
7900.00	6935.88	6946.97	6945.05	34.66	1.44	270.23	355.32	863.37	490.53	454.44	13.59	
8000.00	6933.90	6946.42	6944.50	37.14	1.44	270.32	355.32	863.36	563.65	525.07	14.61	
8100.00	6931.93	6945.87	6943.95	39.65	1.44	270.41	355.33	863.35	644.04	602.95	15.67	
8200.00	6929.95	6945.32	6943.40	42.19	1.44	270.50	355.33	863.34	729.29	685.66	16.72	
8300.00	6927.98	6944.78	6942.86	44.76	1.44	270.58	355.33	863.33	817.90	771.70	17.71	
8400.00	6926.00	6944.23	6942.32	47.35	1.44	270.67	355.33	863.33	908.87	860.09	18.63	
8500.00	6924.03	6943.69	6941.78	49.95	1.44	270.76	355.33	863.32	1001.56	950.19	19.50	
8600.00	6922.05	6943.15	6941.24	52.58	1.44	270.84	355.33	863.31	1095.54	1041.55	20.29	
8700.00	6920.08	6942.62	6940.70	55.21	1.45	270.93	355.33	863.30	1190.50	1133.88	21.03	
8800.00	6918.10	6942.08	6940.16	57.86	1.45	271.01	355.33	863.30	1286.22	1226.97	21.71	
8900.00	6916.12	6941.55	6939.63	60.51	1.45	271.10	355.33	863.29	1382.55	1320.65	22.33	
9000.00	6916.44	6943.20	6941.28	63.18	1.44	260.41	355.33	863.31	1479.34	1415.60	23.21	
9100.00	6919.20	6947.18	6945.26	65.85	1.44	259.80	355.32	863.37	1576.47	1510.21	23.79	
9200.00	6921.97	6951.14	6949.22	68.53	1.44	259.18	355.32	863.42	1673.93	1605.16	24.34	
9300.00	6924.73	6955.09	6953.17	71.21	1.44	258.58	355.32	863.48	1771.66	1700.40	24.86	
9400.00	6927.49	6959.02	6957.10	73.90	1.43	257.97	355.31	863.53	1869.62	1795.87	25.35	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012

Time: 10 07.09

Page: 10

Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336.0

Db: Sybase

Site: Exist PWU #12

Well: Exist PWU #12

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
9500.00	6930.25	6962.95	6961.03	76.60	1.43	257.37	355.31	863.59	1967.78	1891.56	25.82	
9600.00	6933.01	6966.86	6964.94	79.29	1.43	256.78	355.31	863.64	2066.11	1987.43	26.26	
9700.00	6935.77	6970.76	6968.84	82.00	1.42	256.19	355.31	863.70	2164.58	2083.45	26.68	
9800.00	6938.53	6974.65	6972.73	84.70	1.42	255.60	355.32	863.75	2263.18	2179.62	27.09	
9900.00	6941.29	6978.52	6976.60	87.41	1.42	255.02	355.32	863.80	2361.89	2275.92	27.47	
10000.00	6944.05	6982.39	6980.47	90.12	1.41	254.45	355.32	863.85	2460.70	2372.33	27.84	
10100.00	6946.81	6986.24	6984.32	92.84	1.41	253.88	355.33	863.91	2559.60	2468.84	28.20	
10200.00	6949.57	6990.08	6988.16	95.55	1.41	253.31	355.33	863.96	2658.57	2565.45	28.55	
10300.00	6952.33	6993.91	6991.99	98.27	1.41	252.75	355.34	864.01	2757.61	2662.14	28.89	
10400.00	6955.09	6997.72	6995.80	100.99	1.40	252.20	355.35	864.06	2856.71	2758.92	29.21	
10500.00	6957.85	7001.46	6999.53	103.71	1.40	251.66	355.36	864.11	2955.87	2855.76	29.53	
10600.00	6960.61	7005.06	7003.14	106.44	1.40	251.14	355.37	864.16	3055.07	2952.66	29.83	
10700.00	6963.37	7008.64	7006.71	109.16	1.40	250.63	355.38	864.20	3154.33	3049.62	30.13	
10800.00	6966.13	7012.19	7010.27	111.89	1.39	250.13	355.39	864.25	3253.62	3146.65	30.42	
10900.00	6968.89	7015.72	7013.80	114.62	1.39	249.63	355.40	864.29	3352.95	3243.72	30.70	
11000.00	6971.65	7019.23	7017.30	117.35	1.39	249.14	355.41	864.34	3452.32	3340.85	30.97	
11100.00	6974.41	7022.71	7020.79	120.08	1.39	248.66	355.42	864.38	3551.72	3438.03	31.24	
11200.00	6977.17	7026.17	7024.25	122.81	1.39	248.18	355.43	864.42	3651.14	3535.25	31.51	
11300.00	6979.93	7029.61	7027.69	125.54	1.38	247.71	355.45	864.46	3750.60	3632.52	31.76	
11400.00	6982.69	7033.03	7031.10	128.27	1.38	247.24	355.46	864.50	3850.07	3729.83	32.02	
11500.00	6985.45	7036.42	7034.50	131.01	1.38	246.78	355.47	864.55	3949.58	3827.18	32.27	
11600.00	6988.21	7039.79	7037.87	133.74	1.38	246.33	355.49	864.59	4049.10	3924.57	32.51	
11700.00	6990.98	7043.15	7041.22	136.48	1.38	245.88	355.50	864.62	4148.64	4021.99	32.76	
11800.00	6993.74	7046.47	7044.55	139.21	1.37	245.44	355.52	864.66	4248.20	4119.45	33.00	
11900.00	6996.50	7049.78	7047.85	141.95	1.37	245.01	355.53	864.70	4347.78	4216.94	33.23	
12000.00	6999.26	7053.07	7051.14	144.69	1.37	244.58	355.55	864.74	4447.37	4314.47	33.46	
12100.00	7002.02	7056.33	7054.40	147.43	1.37	244.15	355.56	864.77	4546.98	4412.02	33.69	
12200.00	7004.78	7059.58	7057.65	150.17	1.37	243.74	355.58	864.81	4646.61	4509.61	33.92	
12300.00	7007.54	7062.80	7060.87	152.90	1.36	243.33	355.60	864.84	4746.24	4607.22	34.14	
12400.00	7010.30	7066.00	7064.07	155.64	1.36	242.92	355.61	864.88	4845.89	4704.87	34.36	
12500.00	7013.06	7069.18	7067.26	158.39	1.36	242.52	355.63	864.91	4945.55	4802.54	34.58	
12600.00	7015.82	7072.35	7070.42	161.13	1.36	242.12	355.65	864.95	5045.22	4900.24	34.80	
12700.00	7018.58	7075.49	7073.56	163.87	1.36	241.73	355.67	864.98	5144.90	4997.96	35.01	
12800.00	7021.34	7078.61	7076.69	166.61	1.35	241.35	355.68	865.01	5244.60	5095.71	35.22	
12900.00	7024.10	7081.72	7079.79	169.35	1.35	240.97	355.70	865.04	5344.30	5193.48	35.44	
13000.00	7026.86	7084.80	7082.87	172.09	1.35	240.60	355.72	865.07	5444.01	5291.27	35.64	
13100.00	7029.62	7087.87	7085.94	174.84	1.35	240.23	355.74	865.10	5543.73	5389.09	35.85	
13200.00	7032.38	7090.91	7088.98	177.58	1.35	239.86	355.76	865.13	5643.45	5486.93	36.06	
13300.00	7035.14	7093.94	7092.01	180.32	1.34	239.50	355.78	865.16	5743.19	5584.80	36.26	
13400.00	7037.90	7096.95	7095.02	183.07	1.34	239.15	355.80	865.19	5842.93	5682.68	36.46	
13500.00	7040.23	7100.00	7098.07	185.81	1.34	244.89	355.82	865.22	5942.69	5772.00	34.82	
13600.00	7042.15	7103.92	7101.99	188.56	1.34	244.38	355.85	865.26	6042.47	5869.94	35.02	
13700.00	7044.07	7108.79	7106.86	191.30	1.34	243.76	355.88	865.31	6142.26	5968.09	35.27	
13800.00	7046.00	7113.77	7111.84	194.05	1.34	243.12	355.92	865.36	6242.05	6066.28	35.51	
13900.00	7047.92	7118.87	7116.94	196.79	1.33	242.48	355.96	865.41	6341.84	6164.54	35.77	
14000.00	7049.84	7124.09	7122.15	199.54	1.33	241.83	356.00	865.47	6441.64	6262.86	36.03	
14100.00	7051.77	7129.43	7127.50	202.29	1.33	241.18	356.04	865.53	6541.44	6361.24	36.30	
14200.00	7053.69	7134.90	7132.97	205.03	1.33	240.51	356.08	865.59	6641.25	6459.69	36.58	
14300.00	7055.62	7140.51	7138.57	207.78	1.33	239.84	356.12	865.66	6741.06	6558.20	36.86	
14400.00	7057.54	7146.25	7144.32	210.53	1.32	239.16	356.17	865.73	6840.87	6656.77	37.16	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012

Time: 10:07.09

Page: 11

Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336.0

Db: Sybase

Site: Exist PWU #12
Well: Exist PWU #12
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
14500.00	7059.46	7152.14	7150.20	213.27	1.32	238.48	356.22	865.81	6940.68	6755.42	37.46	
14600.00	7061.39	7158.18	7156.24	216.02	1.32	237.79	356.27	865.89	7040.50	6854.13	37.78	
14700.00	7063.31	7164.37	7162.44	218.77	1.32	237.09	356.32	865.97	7140.32	6952.91	38.10	
14800.00	7065.23	7170.73	7168.79	221.51	1.32	236.39	356.38	866.06	7240.14	7051.77	38.44	
14900.00	7067.16	7177.25	7175.31	224.26	1.31	235.67	356.44	866.15	7339.96	7150.70	38.78	
15000.00	7069.08	7183.95	7182.01	227.01	1.31	234.96	356.50	866.25	7439.79	7249.71	39.14	
15100.00	7071.01	7190.83	7188.89	229.76	1.31	234.23	356.56	866.36	7539.62	7348.79	39.51	
15200.00	7072.93	7197.90	7195.96	232.51	1.31	233.50	356.63	866.47	7639.44	7447.95	39.89	
15300.00	7074.85	7209.72	7207.78	235.26	1.30	232.31	356.75	866.67	7739.27	7548.22	40.51	
15400.00	7076.78	7224.40	7222.45	238.00	1.30	230.89	356.92	866.93	7839.10	7649.17	41.27	
15500.00	7078.70	7240.33	7238.38	240.75	1.29	229.41	357.14	867.24	7938.92	7750.44	42.12	
15600.00	7080.63	7257.69	7255.73	243.50	1.29	227.88	357.42	867.61	8038.74	7852.03	43.06	
15700.00	7082.55	7276.67	7274.70	246.25	1.28	226.29	357.76	868.05	8138.56	7953.97	44.09	
15800.00	7084.47	7297.52	7295.54	249.00	1.28	224.64	358.20	868.57	8238.37	8056.27	45.24	
15900.00	7086.40	7304.06	7302.08	251.75	1.28	224.15	358.34	868.74	8338.17	8155.48	45.64	
16000.00	7088.32	7308.63	7306.65	254.50	1.27	223.81	358.44	868.87	8437.98	8254.28	45.93	
16100.00	7090.24	7313.21	7311.22	257.25	1.27	223.47	358.54	868.99	8537.79	8353.10	46.23	
16200.00	7092.17	7317.78	7315.79	260.00	1.27	223.14	358.64	869.11	8637.60	8451.94	46.52	
16300.00	7094.09	7322.35	7320.36	262.75	1.27	222.81	358.74	869.23	8737.42	8550.79	46.82	
16400.00	7096.02	7326.92	7324.92	265.50	1.27	222.48	358.84	869.35	8837.23	8649.66	47.11	
16500.00	7097.94	7331.48	7329.48	268.25	1.27	222.16	358.93	869.47	8937.05	8748.53	47.41	
16600.00	7099.86	7336.05	7334.05	271.00	1.27	221.85	359.03	869.59	9036.87	8847.42	47.70	
16700.00	7101.79	7340.61	7338.60	273.75	1.27	221.54	359.12	869.71	9136.69	8946.33	48.00	
16800.00	7103.71	7345.17	7343.16	276.50	1.27	221.23	359.21	869.83	9236.51	9045.24	48.29	
16900.00	7105.63	7349.72	7347.72	279.25	1.27	220.92	359.30	869.95	9336.33	9144.17	48.59	
17000.00	7107.56	7354.28	7352.27	282.00	1.27	220.62	359.39	870.07	9436.16	9243.11	48.88	
17100.00	7109.48	7358.84	7356.82	284.75	1.26	220.33	359.48	870.19	9535.99	9342.07	49.17	
17178.90	7111.00	7362.43	7360.41	286.92	1.26	220.10	359.54	870.28	9614.75	9420.15	49.41	

Site: Exist PWU #9
Well: Exist PWU #9
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	28.60	28.60	0.00	0.00	84.73	327.36	3550.57	3565.63			No Data
100.00	100.00	121.94	121.94	0.09	0.03	84.74	326.80	3550.79	3565.81	3565.69	30611.13	
200.00	200.00	223.14	223.13	0.32	0.08	84.75	326.21	3551.13	3566.09	3565.70	9249.54	
300.00	300.00	329.64	329.63	0.54	0.11	84.76	325.67	3551.21	3566.11	3565.46	5465.55	
400.00	400.00	417.42	417.42	0.77	0.14	84.76	325.71	3551.42	3566.36	3565.46	4003.22	
500.00	500.00	521.56	521.55	0.99	0.18	84.76	325.90	3551.77	3566.71	3565.56	3106.05	
600.00	600.00	626.36	626.35	1.21	0.19	84.75	326.18	3551.86	3566.81	3565.43	2575.40	
700.00	700.00	709.94	709.93	1.44	0.21	84.75	326.43	3552.14	3567.17	3565.53	2170.74	
800.00	800.00	792.61	792.59	1.66	0.25	84.74	326.89	3552.79	3568.00	3566.09	1860.32	
900.00	900.00	857.34	857.32	1.89	0.29	84.73	327.51	3553.73	3569.55	3567.37	1634.89	
1000.00	1000.00	929.45	929.40	2.11	0.34	84.72	328.38	3555.52	3572.09	3569.64	1455.50	
1100.00	1100.00	1027.81	1027.71	2.34	0.41	84.71	329.49	3558.32	3575.03	3572.29	1303.29	
1200.00	1200.00	1147.59	1147.45	2.56	0.49	84.70	330.49	3561.35	3577.63	3574.58	1174.48	
1300.00	1300.00	1272.92	1272.75	2.79	0.56	84.68	332.02	3563.76	3579.66	3576.32	1069.45	
1400.00	1400.00	1400.32	1400.12	3.01	0.63	84.65	333.92	3565.16	3580.89	3577.26	986.20	
1500.00	1500.00	1508.36	1508.15	3.24	0.68	84.62	335.54	3565.80	3581.63	3577.73	919.59	
1600.00	1600.00	1603.14	1602.92	3.46	0.72	84.60	336.91	3566.35	3582.34	3578.19	862.11	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10 07 09 Page: 12
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well: Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336 0
Reference Wellpath: Db: Sybase

Site: Exist PWU #9
Well: Exist PWU #9
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1700.00	1700.00	1702.65	1702.41	3.69	0.77	84.58	338.44	3567.00	3583.14	3578.72	810.63	
1800.00	1800.00	1817.86	1817.61	3.91	0.82	84.56	339.91	3567.52	3583.70	3579.02	764.58	
1900.00	1900.00	1924.81	1924.56	4.14	0.85	84.54	341.13	3567.70	3583.98	3579.04	725.13	
2000.00	2000.00	2031.28	2031.03	4.36	0.88	84.52	342.18	3567.69	3584.07	3578.87	690.50	
2100.00	2100.00	2131.24	2130.98	4.59	0.89	84.51	342.86	3567.58	3584.01	3578.58	659.95	
2200.00	2200.00	2226.59	2226.33	4.81	0.91	84.50	343.56	3567.64	3584.14	3578.48	632.72	
2300.00	2300.00	2331.08	2330.81	5.04	0.94	84.49	344.44	3567.53	3584.12	3578.21	606.49	
2400.00	2400.00	2423.86	2423.59	5.26	0.97	84.47	345.18	3567.63	3584.29	3578.13	581.61	
2500.00	2500.00	2533.12	2532.85	5.49	1.02	84.46	345.91	3567.58	3584.31	3577.90	559.87	
2600.00	2600.00	2633.20	2632.93	5.71	1.05	84.45	346.76	3567.48	3584.30	3577.66	539.71	
2700.00	2700.00	2735.45	2735.17	5.93	1.08	84.44	347.38	3567.27	3584.14	3577.30	523.46	
2800.00	2800.00	2830.42	2830.14	6.16	1.11	84.43	347.92	3567.22	3584.15	3577.04	504.06	
2900.00	2900.00	2936.67	2936.39	6.38	1.14	84.42	348.28	3567.10	3584.07	3576.77	491.15	
3000.00	3000.00	3044.51	3044.23	6.61	1.16	84.41	348.80	3566.82	3583.85	3576.38	479.68	
3100.00	3100.00	3144.01	3143.73	6.83	1.16	84.41	349.01	3566.32	3583.38	3575.90	479.19	
3200.00	3200.00	3239.04	3238.75	7.06	1.16	84.41	349.20	3566.13	3583.20	3575.49	465.09	
3300.00	3300.00	3352.23	3351.95	7.28	1.16	84.40	349.50	3565.61	3582.76	3574.78	448.89	
3400.00	3400.00	3459.75	3459.46	7.51	1.12	84.40	349.58	3564.86	3582.07	3573.93	440.28	
3500.00	3500.00	3562.45	3562.15	7.73	1.09	84.40	349.70	3563.96	3581.21	3572.92	431.59	
3600.00	3600.00	3667.48	3667.18	7.96	1.08	84.39	350.21	3562.95	3580.30	3571.90	426.29	
3700.00	3700.00	3771.64	3771.34	8.18	1.07	84.38	350.59	3561.77	3579.21	3570.70	420.36	
3800.00	3800.00	3874.66	3874.35	8.41	1.07	84.37	350.87	3560.54	3578.05	3569.39	413.12	
3900.00	3900.00	3978.62	3978.30	8.63	1.08	84.36	351.32	3559.17	3576.78	3567.94	404.64	
4000.00	4000.00	4083.84	4083.51	8.86	1.10	84.35	352.00	3557.63	3575.39	3566.37	396.37	
4100.00	4100.00	4188.59	4188.24	9.08	1.13	84.34	352.56	3555.96	3573.85	3564.63	387.49	
4200.00	4200.00	4290.57	4290.20	9.31	1.16	84.33	352.98	3554.24	3572.22	3562.76	377.69	
4300.00	4300.00	4393.33	4392.94	9.53	1.20	84.32	353.51	3552.44	3570.53	3560.72	363.97	
4400.00	4400.00	4486.68	4486.28	9.76	1.24	84.31	354.10	3550.83	3568.88	3558.74	352.13	
4500.00	4500.00	4595.22	4594.80	9.98	1.28	84.30	354.49	3549.01	3567.24	3556.78	341.03	
4600.00	4600.00	4691.46	4691.03	10.21	1.32	84.29	354.76	3547.29	3565.49	3554.71	330.74	
4700.00	4700.00	4785.59	4785.14	10.43	1.37	84.28	355.27	3545.72	3563.89	3552.81	321.52	
4800.00	4800.00	4895.09	4894.63	10.66	1.44	84.26	356.10	3543.86	3562.27	3550.88	312.86	
4900.00	4900.00	5006.32	5005.83	10.88	1.51	84.25	356.92	3541.59	3560.32	3548.63	304.68	
5000.00	5000.00	5107.73	5107.21	11.10	1.57	84.23	357.66	3539.32	3558.17	3546.18	296.94	
5100.00	5100.00	5185.74	5185.20	11.33	1.61	84.22	358.20	3537.83	3556.33	3544.07	290.09	
5200.00	5200.00	5255.67	5255.13	11.55	1.65	84.21	358.68	3536.99	3555.21	3542.59	281.74	
5300.00	5300.00	5300.00	5299.45	11.78	1.68	84.20	359.10	3536.77	3555.10	3542.35	278.89	
5400.00	5400.00	5368.74	5368.18	12.00	1.71	84.19	360.06	3537.25	3556.09	3543.40	280.32	
5500.00	5500.00	5428.92	5428.34	12.23	1.72	84.17	361.27	3538.62	3558.49	3545.40	271.88	
5600.00	5600.00	5500.00	5499.37	12.45	1.72	84.15	362.95	3540.74	3561.73	3548.49	269.02	
5700.00	5700.00	5558.68	5557.98	12.68	1.72	84.13	364.41	3543.07	3565.96	3552.52	265.22	
5800.00	5800.00	5620.91	5620.10	12.90	1.72	84.11	365.91	3546.35	3571.41	3557.70	260.46	
5900.00	5900.00	5702.40	5701.42	13.13	1.71	84.08	368.09	3551.18	3577.58	3563.62	256.28	
6000.00	6000.00	5861.43	5860.13	13.35	1.71	84.02	373.21	3559.96	3583.55	3569.59	256.62	
6100.00	6100.00	6302.09	6300.16	13.58	2.04	83.70	392.39	3555.88	3581.46	3567.16	250.36	
6200.00	6200.00	6383.46	6381.40	13.80	2.05	83.66	394.79	3551.96	3577.00	3562.51	246.81	
6300.00	6300.00	6470.63	6468.47	14.03	2.07	83.62	396.47	3548.26	3572.99	3558.27	242.80	
6400.00	6399.99	6560.20	6557.97	14.25	2.11	353.41	397.68	3544.79	3568.76	3553.82	238.89	
6500.00	6499.01	6657.60	6655.29	14.47	2.15	353.17	398.73	3541.26	3552.39	3537.42	237.39	
6600.00	6594.27	6777.85	6775.45	14.71	2.19	352.63	399.55	3536.57	3519.01	3504.29	239.04	
6700.00	6682.87	6883.40	6880.89	14.99	2.22	351.71	399.18	3531.74	3469.22	3455.08	245.47	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10 07:09 Page: 13
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well. Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath: Db: Sybase

Site: Exist PWU #9
Well: Exist PWU #9
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
6800.00	6762.12	6955.41	6952.81	15 37	2 24	350 25	398.68	3528 32	3405.14	3391.89	256.99	
6900.00	6829.62	7014.43	7011.77	15 96	2 25	347 80	398.06	3525 67	3329.05	3316 75	270 79	
7000.00	6883 30	7065.10	7062 39	16 83	2 25	343 23	397 32	3523.43	3243 12	3231 50	279 01	
7100.00	6921 54	7099.80	7097 05	18 02	2 26	333 06	396 69	3521.91	3149 96	3137 61	255 03	
7200.00	6943.19	7114 71	7111 94	19 54	2 26	302 44	396 39	3521.27	3052.42	3034 35	168 90	
7300.00	6947 73	7114 94	7112 17	21 30	2 26	244.84	396 38	3521.26	2953 46	2932 90	143 63	
7400.00	6945 75	7109 53	7106 77	23 25	2.26	245.47	396 49	3521.49	2854 66	2832 25	127.39	
7500.00	6943 78	7104 06	7101 31	25 34	2 26	246.12	396 60	3521.72	2755 94	2731 53	112.90	
7600.00	6941.80	7098.29	7095.54	27 55	2.26	246 80	396 72	3521.98	2657 29	2630.75	100 12	
7700.00	6939 83	7091 83	7089.09	29 86	2.25	247 58	396 84	3522.26	2558 74	2529.95	88 88	
7800.00	6937 85	7085.35	7082.62	32 23	2.25	248.37	396 96	3522.54	2460.28	2429.16	79.05	
7900.00	6935 88	7078.87	7076.15	34 66	2.25	249.16	397 08	3522 83	2361.94	2328.42	70.45	
8000.00	6933.90	7072 38	7069.66	37 14	2.25	249.97	397.20	3523 11	2263.73	2227.74	62.89	
8100.00	6931 93	7065 89	7063.17	39 65	2.25	250.78	397.31	3523 40	2165.66	2127.15	56.23	
8200.00	6929 95	7059.38	7056.68	42 19	2.25	251 60	397 42	3523 68	2067.76	2026.68	50.34	
8300.00	6927 98	7052.87	7050 17	44 76	2 25	252.43	397.52	3523 97	1970.04	1926 36	45 10	
8400.00	6926.00	7046.34	7043.65	47 35	2.25	253.27	397.62	3524 26	1872 54	1826.23	40 43	
8500.00	6924.03	7039.81	7037 13	49 95	2 25	254 12	397.72	3524 54	1775 30	1726.33	36.25	
8600.00	6922.05	7033.27	7030.60	52 58	2 25	254 97	397.81	3524 83	1678.36	1626 70	32 48	
8700.00	6920.08	7026.73	7024.06	55 21	2 25	255 83	397.90	3525 12	1581.78	1527 40	29.09	
8800.00	6918 10	7020.17	7017 51	57 86	2.25	256.70	397.99	3525 41	1485 61	1428.51	26 02	
8900.00	6916 12	7013.61	7010 95	60 51	2 25	257 58	398.07	3525 70	1389.96	1330 13	23.23	
9000.00	6916 44	7009 39	7006 74	63 18	2 25	266.44	398.12	3525 89	1294 82	1231.16	20.34	
9100.00	6919 20	7007 68	7005.03	65 85	2 25	266 68	398 14	3525 96	1200 37	1134 08	18 11	
9200.00	6921 97	7005 97	7003 32	68 53	2 24	266 92	398 16	3526 04	1106 89	1037 97	16 06	
9300.00	6924 73	7004 25	7001 61	71 21	2 24	267 16	398.18	3526 12	1014.65	943 10	14 18	
9400.00	6927 49	7002 54	6999.89	73 90	2 24	267 40	398 20	3526 19	924 03	849 84	12.46	
9500.00	6930 25	7000.82	6998 17	76 60	2 24	267 64	398 22	3526 27	835 54	758 71	10.87	
9600.00	6933 01	6999 13	6996 49	79 29	2 24	267 88	398 24	3526 34	749 95	670 42	9.43	
9700.00	6935 77	6997 46	6994.82	82 00	2 24	268 11	398 26	3526 42	668 36	586 05	8.12	
9800.00	6938 53	6995 77	6993 13	84 70	2 24	268 35	398.28	3526 49	592 45	507 25	6.95	
9900.00	6941.29	6994.07	6991 44	87 41	2 24	268 59	398.30	3526 57	524 66	436 49	5 95	
10000.00	6944 05	6992.36	6989.72	90 12	2 24	268.83	398 32	3526 64	468 56	377 34	5 14	
10100.00	6946.81	6990.63	6988 00	92 84	2 24	269 07	398 33	3526 72	428 73	334 43	4 55	
10200.00	6949 57	6988 88	6986 25	95 55	2 24	269 31	398 35	3526 80	409 97	312 60	4 21	
10300.00	6952 33	6987 13	6984 50	98 27	2 24	269 56	398 37	3526 88	415 12	314 77	4 14	
10400.00	6955.09	6985 35	6982 73	100 99	2 24	269 81	398 39	3526 96	443 37	340 17	4 30	
10500.00	6957 85	6983.56	6980.94	103 71	2 24	270 06	398 41	3527 04	490 73	384 78	4 63	
10600.00	6960.61	6981.76	6979.14	106 44	2 24	270 31	398.43	3527 12	552 32	443 68	5 08	
10700.00	6963 37	6979 94	6977 32	109 16	2 24	270 57	398 45	3527 20	623 93	512 63	5 61	
10800.00	6966 13	6978 10	6975 48	111 89	2 24	270 82	398 46	3527 28	702 50	588 55	6 17	
10900.00	6968 89	6976 25	6973 63	114 62	2 24	271 08	398 48	3527 37	785 96	669 36	6 74	
11000.00	6971.65	6974 38	6971 77	117 35	2 24	271 35	398 50	3527 45	872 89	753 63	7 32	
11100.00	6974 41	6972 49	6969 88	120 08	2 24	271 61	398 52	3527 54	962 36	840 45	7 89	
11200.00	6977 17	6970 59	6967 98	122 81	2 24	271 87	398 54	3527 63	1053.73	929 14	8 46	
11300.00	6979 93	6968 67	6966 07	125 54	2 24	272 14	398 56	3527 71	1146 53	1019 28	9 01	
11400.00	6982 69	6966 74	6964 13	128 27	2 24	272 41	398 58	3527 80	1240 45	1110 53	9 55	
11500.00	6985 45	6964 78	6962 18	131 01	2 24	272 69	398 59	3527 89	1335 25	1202 66	10 07	
11600.00	6988 21	6962 81	6960 21	133 74	2 24	272 96	398 61	3527 98	1430 75	1295 49	10 58	
11700.00	6990 98	6960 82	6958 22	136 48	2 24	273 24	398 63	3528 07	1526 83	1388 90	11 07	
11800.00	6993 74	6958 81	6956 21	139 21	2 24	273 52	398 65	3528 16	1623 38	1482 78	11 55	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10 07-09 Page: 14
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath#: Db: Sybase

Site: Exist PWU #9
Well: Exist PWU #9
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
11900.00	6996.50	6956.78	6954.19	141.95	2.24	273.80	398.67	3528.26	1720.33	1577.05	12.01
12000.00	6999.26	6954.74	6952.15	144.69	2.24	274.09	398.69	3528.35	1817.60	1671.65	12.45
12100.00	7002.02	6952.67	6950.08	147.43	2.24	274.37	398.70	3528.45	1915.15	1766.54	12.89
12200.00	7004.78	6950.59	6948.00	150.17	2.24	274.66	398.72	3528.54	2012.94	1861.67	13.31
12300.00	7007.54	6948.49	6945.90	152.90	2.24	274.96	398.74	3528.64	2110.93	1957.01	13.71
12400.00	7010.30	6946.36	6943.78	155.64	2.23	275.25	398.76	3528.74	2209.10	2052.53	14.11
12500.00	7013.06	6944.22	6941.64	158.39	2.23	275.55	398.78	3528.84	2307.43	2148.21	14.49
12600.00	7015.82	6942.06	6939.48	161.13	2.23	275.85	398.79	3528.94	2405.90	2244.04	14.86
12700.00	7018.58	6939.87	6937.30	163.87	2.23	276.15	398.81	3529.04	2504.48	2339.99	15.23
12800.00	7021.34	6937.67	6935.09	166.61	2.23	276.45	398.83	3529.15	2603.17	2436.05	15.58
12900.00	7024.10	6935.44	6932.87	169.35	2.23	276.76	398.85	3529.25	2701.96	2532.21	15.92
13000.00	7026.86	6933.19	6930.62	172.09	2.23	277.07	398.86	3529.36	2800.82	2628.47	16.25
13100.00	7029.62	6930.92	6928.35	174.84	2.23	277.38	398.88	3529.46	2899.77	2724.81	16.57
13200.00	7032.38	6928.63	6926.06	177.58	2.23	277.70	398.90	3529.57	2998.78	2821.23	16.89
13300.00	7035.14	6926.31	6923.75	180.32	2.23	278.02	398.92	3529.68	3097.86	2917.71	17.20
13400.00	7037.90	6923.97	6921.42	183.07	2.23	278.34	398.93	3529.79	3196.99	3014.27	17.50
13500.00	7040.23	6921.09	6918.54	185.81	2.23	282.37	398.95	3529.93	3296.17	3112.89	17.98
13600.00	7042.15	6917.70	6915.15	188.56	2.23	282.82	398.98	3530.09	3395.38	3209.72	18.29
13700.00	7044.07	6914.28	6911.74	191.30	2.23	283.27	399.00	3530.26	3494.63	3306.61	18.59
13800.00	7046.00	6910.83	6908.29	194.05	2.23	283.73	399.02	3530.42	3593.92	3403.56	18.88
13900.00	7047.92	6907.34	6904.80	196.79	2.23	284.19	399.04	3530.59	3693.25	3500.57	19.17
14000.00	7049.84	6903.81	6901.28	199.54	2.23	284.65	399.07	3530.76	3792.61	3597.63	19.45
14100.00	7051.77	6900.25	6897.72	202.29	2.23	285.11	399.09	3530.93	3892.00	3694.75	19.73
14200.00	7053.69	6897.61	6895.09	205.03	2.23	285.46	399.10	3531.06	3991.41	3791.81	20.00
14300.00	7055.62	6895.07	6892.54	207.78	2.23	285.78	399.12	3531.18	4090.86	3888.90	20.26
14400.00	7057.54	6892.54	6890.02	210.53	2.22	286.11	399.13	3531.30	4190.33	3986.03	20.51
14500.00	7059.46	6890.03	6887.51	213.27	2.22	286.43	399.15	3531.43	4289.82	4083.19	20.76
14600.00	7061.39	6887.53	6885.02	216.02	2.22	286.75	399.16	3531.55	4389.33	4180.38	21.01
14700.00	7063.31	6885.05	6882.54	218.77	2.22	287.07	399.18	3531.66	4488.86	4277.60	21.25
14800.00	7065.23	6882.59	6880.08	221.51	2.22	287.38	399.19	3531.78	4588.42	4374.86	21.49
14900.00	7067.16	6880.14	6877.64	224.26	2.22	287.69	399.20	3531.90	4687.99	4472.14	21.72
15000.00	7069.08	6877.71	6875.21	227.01	2.22	288.00	399.21	3532.01	4787.57	4569.44	21.95
15100.00	7071.01	6875.30	6872.80	229.76	2.22	288.31	399.23	3532.13	4887.17	4666.77	22.17
15200.00	7072.93	6872.90	6870.41	232.51	2.22	288.61	399.24	3532.24	4986.79	4764.13	22.40
15300.00	7074.85	6870.52	6868.03	235.26	2.22	288.90	399.25	3532.36	5086.42	4861.51	22.62
15400.00	7076.78	6868.16	6865.66	238.00	2.22	289.20	399.26	3532.47	5186.06	4958.91	22.83
15500.00	7078.70	6865.81	6863.32	240.75	2.22	289.49	399.27	3532.58	5285.72	5056.34	23.04
15600.00	7080.63	6863.47	6860.98	243.50	2.22	289.78	399.29	3532.69	5385.39	5153.79	23.25
15700.00	7082.55	6861.15	6858.67	246.25	2.22	290.07	399.30	3532.80	5485.06	5251.25	23.46
15800.00	7084.47	6858.84	6856.36	249.00	2.22	290.35	399.31	3532.91	5584.75	5348.74	23.66
15900.00	7086.40	6856.55	6854.07	251.75	2.22	290.63	399.32	3533.01	5684.45	5446.25	23.86
16000.00	7088.32	6854.28	6851.80	254.50	2.21	290.91	399.33	3533.12	5784.16	5543.77	24.06
16100.00	7090.24	6852.02	6849.54	257.25	2.21	291.18	399.34	3533.23	5883.87	5641.32	24.26
16200.00	7092.17	6849.77	6847.30	260.00	2.21	291.45	399.35	3533.33	5983.60	5738.88	24.45
16300.00	7094.09	6847.54	6845.07	262.75	2.21	291.72	399.36	3533.43	6083.33	5836.46	24.64
16400.00	7096.02	6845.32	6842.85	265.50	2.21	291.99	399.37	3533.54	6183.07	5934.06	24.83
16500.00	7097.94	6843.12	6840.65	268.25	2.21	292.25	399.37	3533.64	6282.82	6031.67	25.02
16600.00	7099.86	6840.93	6838.46	271.00	2.21	292.51	399.38	3533.74	6382.57	6129.30	25.20
16700.00	7101.79	6838.75	6836.29	273.75	2.21	292.77	399.39	3533.84	6482.33	6226.95	25.38
16800.00	7103.71	6836.59	6834.13	276.50	2.21	293.03	399.40	3533.94	6582.10	6324.61	25.56
16900.00	7105.63	6834.44	6831.98	279.25	2.21	293.28	399.41	3534.04	6681.88	6422.28	25.74



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10 07-09 Page: 15
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well. Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336.0
Reference Wellpath: Db: Sybase

Site: Exist PWU #9
Well: Exist PWU #9
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
17000 00	7107.56	6832.30	6829.85	282 00	2 21	293 53	399 42	3534.14	6781 65	6519.97	25 92
17100 00	7109.48	6830.18	6827 73	284 75	2 21	293 78	399 42	3534 23	6881 44	6617.67	26.09
17178.90	7111.00	6828.51	6826 06	286 92	2 21	293 98	399 43	3534 31	6960 18	6694 77	26 22

Site: Exist PWU 22
Well: Exist PWU 22
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
0 00	0.00	0 00	0 00	0 00	0.00	86 46	603.16	9736 86	9755.54		No Data
100.00	100 00	61 04	61.03	0 09	0.01	86 46	602 89	9736 95	9755.62	9755 52	97686 74
200.00	200 00	138 87	138 86	0 32	0.03	86 46	601.89	9737.28	9755 97	9755 62	28324 80
300 00	300 00	223 20	223.18	0 54	0.07	86 47	600 69	9737 81	9756 51	9755 90	16130.56
400 00	400 00	314 50	314 47	0 77	0.13	86 47	600 16	9738 46	9757 17	9756 29	11074 53
500 00	500 00	416 19	416 17	0 99	0 20	86.48	599 93	9739.16	9757 85	9756 68	8356 42
600.00	600 00	501.82	501 79	1 21	0.26	86 48	599 70	9739.83	9758 61	9757 17	6751 78
700.00	700 00	609 42	609 39	1 44	0 33	86 48	599 47	9740.69	9759 39	9757 65	5613 20
800 00	800 00	693.38	693 34	1 66	0.38	86.48	599 49	9741.39	9760 23	9758 21	4844 08
900 00	900 00	771 08	771 04	1.89	0 43	86.48	599 64	9742 18	9761 26	9758 97	4269 36
1000 00	1000 00	850 19	850 15	2 11	0 48	86.48	599 82	9743 17	9762 52	9759.95	3809 04
1100.00	1100 00	946 56	946 50	2.34	0 53	86 48	600 26	9744 52	9763 95	9761.10	3430 52
1200.00	1200 00	1050 18	1050 11	2.56	0 59	86.47	600 93	9745 87	9765 28	9762 15	3114 22
1300.00	1300 00	1157 84	1157 76	2 79	0 65	86.47	601 54	9747 31	9766 66	9763.23	2848 40
1400.00	1400 00	1273 19	1273 11	3.01	0 72	86.46	602 30	9748 63	9767 84	9764.11	2622 43
1500 00	1500 00	1378 06	1377.96	3.24	0 77	86 46	603 33	9749 72	9768.93	9764.93	2438 89
1600 00	1600 00	1501 66	1501.54	3.46	0 82	86.45	604.78	9750 83	9769.91	9765 62	2279 33
1700 00	1700 00	1630 73	1630.60	3.69	0 87	86.44	606 40	9751.52	9770.50	9765 95	2146 32
1800.00	1800 00	1716 14	1716.01	3.91	0 90	86 44	607.48	9752 00	9771.13	9766 33	2034 28
1900 00	1900 00	1831 27	1831.13	4 14	0.95	86.43	608.86	9752 59	9771.72	9766 65	1928 82
2000 00	2000 00	1929.59	1929 44	4.36	0.99	86 42	610 03	9753 05	9772.25	9766.93	1835 87
2100 00	2100.00	2031.02	2030 86	4.59	1.03	86 41	611 30	9753 54	9772.81	9767 23	1751.11
2200 00	2200.00	2144.44	2144 27	4 81	1 08	86 40	612.82	9753 96	9773 27	9767 43	1673 38
2300 00	2300 00	2255 50	2255 32	5 04	1 11	86 40	614 22	9754 25	9773 61	9767 52	1603 65
2400 00	2400 00	2359 04	2358.85	5 26	1.15	86 39	615 52	9754 43	9773.86	9767 52	1540 37
2500 00	2500 00	2478 23	2478 03	5.49	1.18	86 38	617.02	9754 56	9774 05	9767 46	1481 80
2600.00	2600 00	2578 36	2578 15	5 71	1 20	86 37	618 25	9754 50	9774 08	9767 24	1429 52
2700 00	2700 00	2668 98	2668 77	5 93	1.23	86 37	619 40	9754 51	9774 17	9767 09	1380.40
2800 00	2800 00	2790.32	2790 10	6 16	1 26	86 36	620 97	9754.52	9774 26	9766 94	1333 99
2900 00	2900 00	2890 86	2890 63	6 38	1.29	86 35	622.16	9754.35	9774 17	9766 62	1292 96
3000.00	3000 00	3005.17	3004 94	6 61	1 32	86 34	623 39	9754 10	9774 03	9766.24	1255 28
3100.00	3100 00	3102.26	3102 01	6 83	1 34	86 34	624 45	9753 83	9773.82	9765 81	1220.24
3200.00	3200 00	3198 54	3198 29	7 06	1 37	86 33	625.49	9753.59	9773 64	9765 41	1187.03
3300 00	3300 00	3309.78	3309 52	7 28	1 40	86 32	626.77	9753.26	9773 41	9764 95	1155.82
3400 00	3400 00	3390 20	3389 93	7.51	1.43	86 32	627 88	9753 05	9773.24	9764.56	1126.15
3500 00	3500 00	3487.71	3487 44	7.73	1 47	86 31	629 40	9752 90	9773 19	9764.29	1097.71
3600 00	3600 00	3588.83	3588 54	7.96	1 52	86 30	631 08	9752.74	9773 14	9764.01	1070 53
3700 00	3700 00	3676 18	3675 88	8 18	1 56	86 29	632.61	9752 64	9773.14	9763.78	1044 42
3800 00	3800.00	3769 11	3768.78	8 41	1 61	86 28	634 40	9752 64	9773.26	9763 68	1019 58
3900 00	3900 00	3868 55	3868 20	8.63	1 67	86 27	636 65	9752 65	9773 42	9763 60	995 88
4000.00	4000 00	3986 64	3986.26	8.86	1 73	86 25	639 51	9752 56	9773 50	9763.46	973 62



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012 Time: 10.07 09
Co-ordinate(NE) Reference: Well, Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336.0

Page: 16

Db: Sybase

Site: Exist PWU 22
Well: Exist PWU 22
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
4100.00	4100.00	4099.56	4099.14	9 08	1.79	86 23	642 47	9752.24	9773 40	9763 14	952.83	
4200.00	4200.00	4198 87	4198 41	9 31	1.84	86.22	645.15	9751 90	9773 23	9762 76	932 87	
4300.00	4300.00	4371 96	4371.44	9 53	1.92	86 19	649 58	9750.63	9772 64	9761.97	915 91	
4400.00	4400.00	4540 18	4539 60	9 76	1.97	86 17	653 15	9748 25	9771 36	9760.54	902.95	
4500.00	4500.00	4688.63	4687.99	9 98	2.00	86 15	656 06	9745.33	9769 54	9758.58	891 43	
4600.00	4600.00	4832 68	4831 97	10 21	2.03	86.13	659 06	9741 74	9767 18	9756.09	881.22	
4700.00	4700.00	4966 24	4965.45	10 43	2.04	86 11	661.77	9737 96	9764 51	9753.27	869.09	
4800.00	4800.00	5082 26	5081 40	10 66	2.06	86.10	663 92	9734 31	9761.49	9750.07	854 92	
4900.00	4900.00	5195 02	5194 08	10.88	2 07	86 08	666 01	9730.65	9758 37	9746 77	841 34	
5000.00	5000.00	5301 29	5300.26	11.10	2 09	86.07	668 12	9727 07	9755.15	9743 37	827.93	
5100.00	5100.00	5418 15	5417.02	11.33	2 12	86.05	670.63	9722 94	9751.77	9739 79	814 43	
5200.00	5200.00	5496 57	5495 38	11.55	2 13	86.04	672 22	9720.23	9748.45	9736 29	801 88	
5300.00	5300.00	5579 22	5577.97	11 78	2 15	86.03	673 79	9717.54	9745 34	9732 99	789.57	
5400.00	5400.00	5648 61	5647.31	12 00	2 17	86.02	675.11	9715.44	9742 45	9729.92	777.77	
5500.00	5500.00	5719 28	5717 95	12 23	2 20	86.02	676 35	9713.56	9739 91	9727 19	766.02	
5600.00	5600.00	5833 34	5831 96	12 45	2.24	86 00	678 51	9710.66	9737 52	9724 60	753 79	
5700.00	5700.00	5993 72	5992 22	12 68	2 30	85 98	681.97	9705.68	9734 52	9721.36	739.42	
5800.00	5800.00	6119 83	6118.22	12 90	2.35	85.96	684.66	9701.33	9731.23	9717 83	726.00	
5900.00	5900.00	6247 34	6245 61	13 13	2.40	85 94	687.43	9696 47	9727.57	9713 91	712.34	
6000.00	6000.00	6339 16	6337 35	13.35	2 43	85 93	689.27	9692 94	9723 87	9709.99	700 57	
6100.00	6100.00	6426 11	6424 22	13.58	2.46	85 92	691 04	9689.69	9720 29	9706.19	689 19	
6200.00	6200.00	6516 03	6514 07	13 80	2.50	85.91	692.68	9686 47	9716.85	9702.51	677 75	
6300.00	6300.00	6657 30	6655 22	14 03	2.55	85 89	695 11	9681.26	9713 31	9698 68	663.68	
6400.00	6399 99	6753 73	6751 56	14.25	2.59	355 70	696 65	9677.35	9708.85	9693 98	652 84	
6500.00	6499.01	6839.76	6837 52	14 47	2 62	355.56	697.80	9674 11	9692.25	9677 40	652 33	
6600.00	6594 27	6944 22	6941.89	14.71	2.66	355 25	699 07	9670.08	9658.77	9644 24	664.76	
6700.00	6682 87	7039 94	7037 53	14.99	2 69	354 71	700 36	9666 36	9609.50	9595 61	691.71	
6800.00	6762 12	7130 30	7127.81	15 37	2 73	353.83	701 49	9662.67	9545 78	9532 78	733 99	
6900.00	6829 62	7186 90	7184 36	15.96	2 75	352 36	702 23	9660.36	9469 76	9457 81	792.51	
7000.00	6883 30	7235 73	7233 14	16.83	2 77	349.61	702 87	9658.40	9383 77	9372 79	854.93	
7100.00	6921 54	7270 62	7268 00	18.02	2 78	343.29	703 28	9657.00	9290 36	9279 63	865 59	
7200.00	6943 19	7288 53	7285 89	19 54	2 79	318.94	703.48	9656 29	9192.40	9177 32	609.64	
7300.00	6947 73	7289 07	7286 44	21 30	2 79	233.88	703 48	9656 26	9092 84	9074.16	486 88	
7400.00	6945.75	7283 02	7280 39	23 25	2 79	234.19	703.42	9656 51	8993.34	8973 04	442 99	
7500.00	6943.78	7276 97	7274 34	25.34	2 79	234 50	703.35	9656 75	8893.85	8871.78	403.03	
7600.00	6941 80	7270.91	7268 29	27 55	2.78	234 81	703 28	9656.99	8794.36	8770 42	367.26	
7700.00	6939 83	7264.86	7262 24	29 86	2.78	235 12	703 21	9657.23	8694.89	8668 97	335.51	
7800.00	6937.85	7258.80	7256.19	32 23	2 78	235 44	703.14	9657 48	8595.42	8567 46	307.40	
7900.00	6935 88	7252.74	7250.14	34 66	2 78	235.76	703.07	9657 72	8495 96	8465 89	282 53	
8000.00	6933 90	7246.68	7244.08	37 14	2 78	236.08	703.00	9657.96	8396.51	8364 28	260 48	
8100.00	6931 93	7240.62	7238.02	39 65	2 77	236 41	702 93	9658 21	8297.07	8262.62	240 87	
8200.00	6929 95	7234 55	7231.97	42.19	2 77	236 73	702 85	9658 45	8197.64	8160 94	223 37	
8300.00	6927 98	7228 49	7225.91	44.76	2 77	237 06	702 78	9658.69	8098 21	8059.22	207 70	
8400.00	6926 00	7222 42	7219 84	47.35	2.77	237.40	702 70	9658.94	7998 80	7957 48	193 61	
8500.00	6924.03	7216 35	7213 78	49.95	2.76	237 73	702.62	9659 18	7899 39	7855.72	180 89	
8600.00	6922 05	7210 28	7207 71	52.58	2.76	238.07	702.54	9659.42	7800 00	7753.95	169 37	
8700.00	6920.08	7204.21	7201.65	55 21	2 76	238 41	702 46	9659.67	7700.62	7652.15	158 89	
8800.00	6918 10	7198 34	7195 79	57.86	2 76	238 74	702 38	9659.90	7601 25	7550.35	149 35	
8900.00	6916.12	7192.95	7190 40	60.51	2.75	239 05	702.31	9660.12	7501 89	7448 55	140.65	
9000.00	6916 44	7189.60	7187 05	63 18	2 75	263 42	702 26	9660.26	7402 45	7338 90	116 48	
9100.00	6919 20	7188.45	7185 90	65.85	2 75	263.51	702 25	9660 30	7302 95	7236.74	110 29	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012

Time: 10:07:09

Page: 17

Co-ordinate(NE) Reference: Well: Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0

Db: Sybase

Site: Exist PWU 22

Well: Exist PWU 22

Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
9200 00	6921 97	7187 30	7184.75	68.53	2.75	263 60	702 23	9660 35	7203 47	7134.58	104 57	
9300 00	6924.73	7186.14	7183 59	71.21	2.75	263.69	702 22	9660 40	7104.00	7032.44	99.27	
9400 00	6927 49	7184.98	7182.44	73.90	2.75	263.78	702 20	9660 44	7004.54	6930.30	94.34	
9500 00	6930 25	7183.82	7181.27	76.60	2.75	263.87	702.19	9660 49	6905.10	6828.17	89.76	
9600 00	6933.01	7182.65	7180.11	79 29	2.75	263.96	702.17	9660 54	6805 68	6726 05	85 47	
9700 00	6935.77	7181 48	7178.94	82.00	2.75	264 05	702.15	9660 58	6706 27	6623.95	81.46	
9800 00	6938.53	7180.31	7177.77	84.70	2.75	264 14	702.14	9660 63	6606.88	6521.86	77.71	
9900 00	6941.29	7179 14	7176 60	87.41	2.75	264 23	702.12	9660 68	6507.51	6419.79	74.18	
10000 00	6944 05	7177.96	7175.42	90 12	2.75	264 32	702.11	9660.73	6408 16	6317 73	70 86	
10100 00	6946 81	7176 78	7174 24	92 84	2.75	264.41	702.09	9660.77	6308 83	6215.69	67.73	
10200 00	6949.57	7175.60	7173 06	95 55	2.75	264 51	702.08	9660.82	6209 52	6113 66	64 78	
10300 00	6952.33	7174 41	7171 88	98 27	2.75	264 60	702.06	9660.87	6110 24	6011 66	61 98	
10400 00	6955.09	7173.22	7170.69	100.99	2.75	264 69	702 05	9660.92	6010 97	5909 68	59 34	
10500 00	6957 85	7172.03	7169 50	103.71	2.75	264.78	702 03	9660.97	5911.74	5807.72	56 83	
10600 00	6960 61	7170 83	7168.30	106.44	2.75	264 88	702 01	9661.02	5812 52	5705.78	54 45	
10700 00	6963 37	7169 64	7167.11	109.16	2.75	264 97	702 00	9661.06	5713 34	5603.87	52 19	
10800 00	6966 13	7168 44	7165 91	111 89	2.74	265 06	701 98	9661.11	5614 18	5501 99	50 04	
10900 00	6968 89	7167 23	7164 71	114.62	2.74	265 16	701 97	9661.16	5515.05	5400.13	47 99	
11000 00	6971 65	7166 03	7163 50	117.35	2.74	265.25	701 95	9661.21	5415.96	5298 31	46.03	
11100 00	6974 41	7164.82	7162 29	120 08	2.74	265 34	701 94	9661.26	5316 90	5196 51	44.17	
11200 00	6977.17	7163 60	7161 08	122.81	2.74	265.44	701 92	9661 31	5217.87	5094.75	42.38	
11300 00	6979 93	7162 39	7159.86	125.54	2.74	265 53	701.90	9661 36	5118 88	4993 03	40.67	
11400 00	6982 69	7161 17	7158.65	128.27	2.74	265 63	701.89	9661 41	5019.93	4891 35	39.04	
11500 00	6985 45	7159 95	7157 43	131.01	2.74	265.72	701 87	9661 46	4921.03	4789 70	37 47	
11600 00	6988 21	7158 72	7156 20	133.74	2.74	265 82	701 86	9661 51	4822.16	4688 10	35 97	
11700 00	6990.98	7157.49	7154 98	136.48	2.74	265.91	701 84	9661.56	4723.35	4586 55	34 53	
11800 00	6993.74	7156.26	7153.75	139.21	2.74	266.01	701.82	9661 61	4624.59	4485.05	33 14	
11900 00	6996.50	7155.03	7152.51	141.95	2.74	266.11	701.81	9661 66	4525.88	4383.60	31 81	
12000 00	6999.26	7153.79	7151 28	144.69	2.74	266.20	701 79	9661 71	4427.22	4282 20	30 53	
12100 00	7002 02	7152.55	7150.04	147.43	2.74	266.30	701.78	9661 76	4328.63	4180 87	29 29	
12200 00	7004.78	7151.31	7148.79	150 17	2.74	266 40	701 76	9661 81	4230.11	4079 60	28 11	
12300 00	7007 54	7150.06	7147.55	152 90	2.74	266.49	701.74	9661.86	4131 65	3978 41	26.96	
12400 00	7010 30	7148 81	7146.30	155 64	2.74	266 59	701.73	9661 91	4033.27	3877.28	25 86	
12500 00	7013.06	7147 56	7145.05	158.39	2.74	266.69	701.71	9661.96	3934.98	3776 24	24.79	
12600 00	7015 82	7146 30	7143.79	161 13	2.74	266.79	701.70	9662 01	3836.77	3675.29	23 76	
12700 00	7018.58	7145 04	7142.53	163 87	2.74	266.88	701 68	9662 07	3738.65	3574.42	22 77	
12800 00	7021 34	7143.78	7141.27	166 61	2.73	266.98	701.66	9662 12	3640.64	3473.67	21 80	
12900 00	7024 10	7142 51	7140.01	169 35	2.73	267.08	701 65	9662.17	3542.74	3373.02	20 87	
13000 00	7026.86	7141.24	7138 74	172 09	2.73	267.18	701 63	9662.22	3444.95	3272.49	19 97	
13100 00	7029.62	7139 97	7137 47	174 84	2.73	267.28	701.62	9662 27	3347.30	3172 09	19.10	
13200 00	7032 38	7138 69	7136.19	177 58	2.73	267.38	701 60	9662.33	3249.79	3071.83	18 26	
13300 00	7035 14	7137.42	7134.92	180.32	2.73	267.48	701 58	9662.38	3152 43	2971.73	17.44	
13400 00	7037.90	7136.13	7133.63	183 07	2.73	267.58	701.57	9662 43	3055 25	2871 79	16 65	
13500 00	7040 23	7134 43	7131.93	185 81	2.73	265 81	701 55	9662.50	2958 26	2772.38	15 92	
13600 00	7042.15	7132 34	7129 85	188.56	2.73	265.97	701 52	9662.59	2861 48	2672.83	15 17	
13700 00	7044 07	7130.25	7127 76	191 30	2.73	266.13	701 49	9662.67	2764 93	2573 51	14 44	
13800 00	7046 00	7128.15	7125.66	194.05	2.73	266.29	701 47	9662 76	2668 63	2474 44	13 74	
13900 00	7047 92	7126.05	7123.56	196.79	2.73	266.46	701 44	9662.85	2572 61	2375 65	13.06	
14000 00	7049 84	7123.94	7121.45	199.54	2.73	266.62	701.41	9662.93	2476 90	2277.17	12.40	
14100 00	7051 77	7121.82	7119 34	202.29	2.73	266.79	701 39	9663.02	2381 55	2179.04	11 76	
14200 00	7053.69	7119 70	7117.22	205.03	2.73	266.95	701 36	9663.11	2286.59	2081 30	11 14	

Company: Devon Energy Field: Eddy Co., NM (NAD 83) Reference Site: Agate PWU 21 #6H Reference Well: Agate PWU 21 #6H Reference Wellpath:	Date: 7/2/2012 Time: 10 07 09 Page: 18	Co-ordinate(NE) Reference: Well: Agate PWU 21 #6H, Grid North Vertical (TVD) Reference: SITE 3336.0 Db: Sybase
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Site: Exist PWU 22
Well: Exist PWU 22
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
14300.00	7055.62	7117.57	7115.09	207.78	2.72	267.12	701.33	9663.20	2192.07	1984.00	10.54	
14400.00	7057.54	7115.44	7112.96	210.53	2.72	267.29	701.31	9663.28	2098.06	1887.21	9.95	
14500.00	7059.46	7113.31	7110.83	213.27	2.72	267.45	701.28	9663.37	2004.63	1790.99	9.38	
14600.00	7061.39	7111.16	7108.69	216.02	2.72	267.62	701.26	9663.46	1911.87	1695.43	8.83	
14700.00	7063.31	7109.01	7106.54	218.77	2.72	267.79	701.23	9663.55	1819.86	1600.63	8.30	
14800.00	7065.23	7106.86	7104.39	221.51	2.72	267.96	701.20	9663.64	1728.74	1506.71	7.79	
14900.00	7067.16	7104.70	7102.23	224.26	2.72	268.13	701.18	9663.73	1638.66	1413.81	7.29	
15000.00	7069.08	7102.53	7100.07	227.01	2.72	268.30	701.15	9663.82	1549.78	1322.12	6.81	
15100.00	7071.01	7100.36	7097.90	229.76	2.72	268.47	701.12	9663.91	1462.35	1231.86	6.34	
15200.00	7072.93	7098.05	7095.58	232.51	2.72	268.65	701.10	9664.00	1376.62	1143.29	5.90	
15300.00	7074.85	7095.71	7093.25	235.26	2.72	268.83	701.07	9664.10	1292.94	1056.76	5.47	
15400.00	7076.78	7093.39	7090.93	238.00	2.71	269.01	701.04	9664.20	1211.72	972.69	5.07	
15500.00	7078.70	7091.09	7088.63	240.75	2.71	269.20	701.01	9664.29	1133.52	891.60	4.69	
15600.00	7080.63	7088.80	7086.34	243.50	2.71	269.38	700.98	9664.39	1058.98	814.17	4.33	
15700.00	7082.55	7086.52	7084.07	246.25	2.71	269.55	700.95	9664.48	988.94	741.23	3.99	
15800.00	7084.47	7084.26	7081.81	249.00	2.71	269.73	700.93	9664.57	924.42	673.79	3.69	
15900.00	7086.40	7082.01	7079.56	251.75	2.71	269.91	700.90	9664.67	866.66	613.09	3.42	
16000.00	7088.32	7079.78	7077.33	254.50	2.71	270.08	700.87	9664.76	817.09	560.58	3.19	
16100.00	7090.24	7077.56	7075.11	257.25	2.71	270.26	700.84	9664.85	777.28	517.83	3.00	
16200.00	7092.17	7075.35	7072.91	260.00	2.71	270.43	700.81	9664.94	748.79	486.42	2.85	
16300.00	7094.09	7073.15	7070.71	262.75	2.71	270.60	700.79	9665.03	732.93	467.67	2.76	
16400.00	7096.02	7070.97	7068.53	265.50	2.71	270.77	700.76	9665.12	730.54	462.43	2.72	
16500.00	7097.94	7068.80	7066.37	268.25	2.71	270.94	700.73	9665.20	741.74	470.83	2.74	
16600.00	7099.86	7066.65	7064.21	271.00	2.70	271.11	700.70	9665.29	765.93	492.27	2.80	
16700.00	7101.79	7064.51	7062.07	273.75	2.70	271.28	700.68	9665.38	801.95	525.58	2.90	
16800.00	7103.71	7062.38	7059.95	276.50	2.70	271.45	700.65	9665.46	848.28	569.24	3.04	
16900.00	7105.63	7060.26	7057.83	279.25	2.70	271.61	700.62	9665.55	903.35	621.64	3.21	
17000.00	7107.56	7058.16	7055.73	282.00	2.70	271.78	700.59	9665.63	965.65	681.30	3.40	
17100.00	7109.48	7056.06	7053.64	284.75	2.70	271.94	700.57	9665.72	1033.88	746.90	3.60	
17178.90	7111.00	7054.42	7052.00	286.92	2.70	272.07	700.55	9665.79	1091.18	802.11	3.77	

Site: Exist Parkway 13
Well: Exist. Parkway 13
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	2.91	2.91	0.00	0.00	211.58	-993.05	-610.48	1165.69			No Data
100.00	100.00	99.81	99.81	0.09	0.11	211.59	-993.11	-610.64	1165.83	1165.63	5877.97	
200.00	200.00	195.98	195.98	0.32	0.36	211.59	-993.38	-611.01	1166.27	1165.60	1732.70	
300.00	300.00	296.34	296.34	0.54	0.62	211.60	-993.81	-611.44	1166.86	1165.70	1004.95	
400.00	400.00	394.38	394.38	0.77	0.87	211.60	-994.36	-611.76	1167.51	1165.88	715.33	
500.00	500.00	500.70	500.70	0.99	1.09	211.59	-994.96	-611.79	1168.00	1165.92	560.26	
600.00	600.00	601.66	601.65	1.21	1.30	211.58	-995.21	-611.68	1168.16	1165.64	463.72	
700.00	700.00	705.67	705.66	1.44	1.48	211.56	-995.35	-611.37	1168.12	1165.20	400.33	
800.00	800.00	815.84	815.82	1.66	1.60	211.52	-995.11	-610.26	1167.40	1164.13	357.39	
900.00	900.00	917.93	917.90	1.89	1.73	211.46	-994.66	-608.69	1166.23	1162.61	322.20	
1000.00	1000.00	1020.64	1020.59	2.11	1.89	211.40	-994.04	-606.88	1164.79	1160.79	291.23	
1100.00	1100.00	1119.85	1119.79	2.34	2.04	211.36	-993.25	-605.43	1163.34	1158.96	265.38	
1200.00	1200.00	1222.25	1222.18	2.56	2.21	211.34	-992.18	-604.13	1161.79	1157.01	243.16	
1300.00	1300.00	1323.64	1323.55	2.79	2.39	211.33	-990.75	-603.12	1160.07	1154.90	224.25	
1400.00	1400.00	1423.92	1423.81	3.01	2.56	211.32	-989.28	-602.08	1158.28	1152.70	207.68	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath#:

Date: 7/2/2012 Time: 10.07 09 Page: 19
Co-ordinate(NE) Reference: Well: Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336 0
Db: Sybase

Site: Exist. Parkway 13
Well: Exist. Parkway 13
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1500.00	1500.00	1524.14	1524.02	3.24	2.75	211.33	-987.68	-601.26	1156.49	1150.50	193.09	
1600.00	1600.00	1624.90	1624.76	3.46	2.94	211.35	-985.84	-600.62	1154.60	1148.20	180.31	
1700.00	1700.00	1722.59	1722.43	3.69	3.13	211.39	-983.94	-600.41	1152.82	1146.01	169.25	
1800.00	1800.00	1821.59	1821.41	3.91	3.32	211.43	-982.13	-600.29	1151.20	1143.98	159.30	
1900.00	1900.00	1922.84	1922.65	4.14	3.52	211.48	-980.21	-600.19	1149.54	1141.88	150.15	
2000.00	2000.00	2022.49	2022.28	4.36	3.73	211.53	-978.28	-600.10	1147.83	1139.74	141.89	
2100.00	2100.00	2120.94	2120.71	4.59	3.95	211.57	-976.49	-599.96	1146.21	1137.68	134.39	
2200.00	2200.00	2218.38	2218.14	4.81	4.16	211.60	-974.94	-599.82	1144.78	1135.81	127.59	
2300.00	2300.00	2316.12	2315.87	5.04	4.39	211.62	-973.69	-599.57	1143.56	1134.13	121.33	
2400.00	2400.00	2414.95	2414.69	5.26	4.63	211.63	-972.74	-599.14	1142.51	1132.62	115.53	
2500.00	2500.00	2516.16	2515.90	5.49	4.88	211.63	-971.80	-598.51	1141.39	1131.03	110.12	
2600.00	2600.00	2612.87	2612.61	5.71	5.12	211.62	-971.05	-597.94	1140.42	1129.59	105.30	
2700.00	2700.00	2712.34	2712.08	5.93	5.37	211.61	-970.51	-597.26	1139.60	1128.30	100.84	
2800.00	2800.00	2811.87	2811.60	6.16	5.61	211.59	-970.10	-596.50	1138.85	1127.08	96.76	
2900.00	2900.00	2915.23	2914.95	6.38	5.87	211.57	-969.46	-595.67	1137.90	1125.65	92.88	
3000.00	3000.00	3012.60	3012.32	6.61	6.12	211.55	-968.87	-594.92	1136.98	1124.26	89.37	
3100.00	3100.00	3112.73	3112.45	6.83	6.37	211.53	-968.34	-594.19	1136.15	1122.95	86.08	
3200.00	3200.00	3212.00	3211.71	7.06	6.62	211.53	-967.74	-593.67	1135.36	1121.68	83.02	
3300.00	3300.00	3311.84	3311.54	7.28	6.87	211.53	-967.05	-593.33	1134.59	1120.44	80.17	
3400.00	3400.00	3411.75	3411.46	7.51	7.12	211.54	-966.37	-593.04	1133.86	1119.24	77.51	
3500.00	3500.00	3515.52	3515.22	7.73	7.38	211.55	-965.42	-592.79	1132.95	1117.84	74.98	
3600.00	3600.00	3618.11	3617.80	7.96	7.64	211.57	-964.13	-592.47	1131.72	1116.13	72.60	
3700.00	3700.00	3717.56	3717.24	8.18	7.88	211.59	-962.91	-592.12	1130.49	1114.43	70.38	
3800.00	3800.00	3822.80	3822.47	8.41	8.15	211.60	-961.37	-591.54	1128.95	1112.39	68.20	
3900.00	3900.00	3922.94	3922.59	8.63	8.41	211.62	-959.70	-590.94	1127.22	1110.18	66.17	
4000.00	4000.00	4022.83	4022.47	8.86	8.66	211.64	-958.08	-590.24	1125.47	1107.96	64.26	
4100.00	4100.00	4122.06	4121.68	9.08	8.92	211.65	-956.54	-589.56	1123.78	1105.79	62.45	
4200.00	4200.00	4222.71	4222.32	9.31	9.18	211.66	-954.99	-588.86	1122.11	1103.63	60.72	
4300.00	4300.00	4323.77	4323.36	9.53	9.44	211.66	-953.43	-587.91	1120.30	1101.33	59.06	
4400.00	4400.00	4423.05	4422.63	9.76	9.70	211.65	-952.09	-586.80	1118.57	1099.12	57.51	
4500.00	4500.00	4525.71	4525.27	9.98	9.97	211.64	-950.48	-585.61	1116.62	1096.68	55.99	
4600.00	4600.00	4623.97	4623.51	10.21	10.23	211.63	-948.96	-584.59	1114.76	1094.34	54.58	
4700.00	4700.00	4725.71	4725.23	10.43	10.49	211.64	-947.19	-583.63	1112.78	1091.87	53.21	
4800.00	4800.00	4822.93	4822.44	10.66	10.74	211.66	-945.46	-583.02	1110.94	1089.55	51.94	
4900.00	4900.00	4923.71	4923.19	10.88	10.99	211.72	-943.38	-582.98	1109.16	1087.30	50.74	
5000.00	5000.00	5025.60	5025.06	11.10	11.24	211.75	-941.36	-582.59	1107.27	1084.94	49.57	
5100.00	5100.00	5129.36	5128.80	11.33	11.51	211.77	-939.31	-581.65	1105.12	1082.29	48.40	
5200.00	5200.00	5233.59	5232.99	11.55	11.78	211.75	-937.26	-579.95	1102.59	1079.26	47.27	
5300.00	5300.00	5336.67	5336.02	11.78	12.04	211.66	-935.58	-577.02	1099.70	1075.89	46.19	
5400.00	5400.00	5438.37	5437.66	12.00	12.29	211.59	-933.68	-574.12	1096.62	1072.34	45.15	
5500.00	5500.00	5539.33	5538.56	12.23	12.55	211.52	-931.58	-571.31	1093.39	1068.62	44.14	
5600.00	5600.00	5637.99	5637.16	12.45	12.81	211.46	-929.49	-568.65	1090.18	1064.93	43.18	
5700.00	5700.00	5734.20	5733.32	12.68	13.06	211.43	-927.33	-566.66	1087.18	1061.45	42.27	
5800.00	5800.00	5828.07	5827.16	12.90	13.29	211.46	-925.03	-565.90	1084.67	1058.48	41.43	
5900.00	5900.00	5922.00	5921.06	13.13	13.50	211.55	-922.59	-566.40	1082.73	1056.11	40.68	
6000.00	6000.00	6017.52	6016.53	13.35	13.68	211.68	-920.08	-567.85	1081.29	1054.26	40.01	
6100.00	6100.00	6115.31	6114.25	13.58	13.85	211.87	-917.27	-570.24	1080.13	1052.71	39.39	
6200.00	6200.00	6211.54	6210.41	13.80	14.01	212.05	-914.70	-572.77	1079.26	1051.45	38.82	
6300.00	6300.00	6306.01	6304.83	14.03	14.16	212.23	-912.59	-575.38	1078.84	1050.66	38.29	
6400.00	6399.99	6402.78	6401.54	14.25	14.30	122.23	-910.82	-578.15	1079.11	1050.57	37.81	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H
Reference Well: Agate PWU 21 #6H
Reference Wellpath:

Date: 7/2/2012

Time: 10 07 09

Page: 20

Co-ordinate(NE) Reference: Well. Agate PWU 21 #6H, Grid North
Vertical (TVD) Reference: SITE 3336.0

Db: Sybase

Site: Exist. Parkway 13

Well: Exist. Parkway 13

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
6500.00	6499.01	6501.76	6500.47	14.47	14.44	122.37	-909.22	-580.88	1086.26	1057.43	37.68	
6600.00	6594.27	6594.46	6593.12	14.71	14.57	122.31	-907.75	-583.50	1103.17	1074.14	38.00	
6700.00	6682.87	6678.83	6677.44	14.99	14.69	121.80	-906.50	-586.05	1130.44	1101.25	38.73	
6800.00	6762.12	6753.64	6752.21	15.37	14.79	120.49	-905.52	-588.43	1168.43	1139.01	39.72	
6900.00	6829.62	6815.74	6814.27	15.96	14.87	117.89	-904.74	-590.56	1217.07	1187.16	40.70	
7000.00	6883.30	6862.39	6860.88	16.83	14.93	113.41	-904.24	-592.28	1275.77	1244.90	41.33	
7100.00	6921.54	6894.17	6892.63	18.02	14.97	106.48	-903.94	-593.53	1343.16	1310.73	41.41	
7200.00	6943.19	6911.50	6909.95	19.54	14.99	96.71	-903.79	-594.23	1417.20	1382.79	41.18	
7300.00	6947.73	6912.05	6910.50	21.30	14.99	85.98	-903.78	-594.25	1495.39	1459.16	41.27	
7400.00	6945.75	6905.93	6904.38	23.25	14.98	85.59	-903.83	-594.00	1576.01	1537.85	41.30	
7500.00	6943.78	6899.80	6898.26	25.34	14.98	85.21	-903.89	-593.75	1658.72	1618.50	41.23	
7600.00	6941.80	6894.42	6892.89	27.55	14.97	84.87	-903.93	-593.54	1743.23	1700.82	41.10	
7700.00	6939.83	6889.10	6887.57	29.86	14.96	84.54	-903.98	-593.33	1829.28	1784.59	40.94	
7800.00	6937.85	6883.84	6882.31	32.23	14.96	84.21	-904.03	-593.12	1916.67	1869.64	40.76	
7900.00	6935.88	6878.63	6877.10	34.66	14.95	83.88	-904.08	-592.91	2005.22	1955.80	40.58	
8000.00	6933.90	6873.47	6871.95	37.14	14.94	83.56	-904.13	-592.71	2094.79	2042.94	40.40	
8100.00	6931.93	6868.36	6866.84	39.65	14.94	83.24	-904.18	-592.51	2185.25	2130.93	40.23	
8200.00	6929.95	6863.30	6861.79	42.19	14.93	82.93	-904.23	-592.32	2276.50	2219.68	40.07	
8300.00	6927.98	6858.29	6856.79	44.76	14.92	82.62	-904.28	-592.13	2368.44	2309.11	39.92	
8400.00	6926.00	6853.33	6851.83	47.35	14.92	82.31	-904.33	-591.94	2460.99	2399.13	39.78	
8500.00	6924.03	6848.43	6846.93	49.95	14.91	82.01	-904.38	-591.75	2554.10	2489.70	39.66	
8600.00	6922.05	6843.56	6842.07	52.58	14.91	81.71	-904.43	-591.57	2647.70	2580.74	39.54	
8700.00	6920.08	6838.75	6837.26	55.21	14.90	81.41	-904.48	-591.39	2741.74	2672.22	39.44	
8800.00	6918.10	6833.98	6832.50	57.86	14.89	81.12	-904.54	-591.22	2836.18	2764.09	39.34	
8900.00	6916.12	6829.26	6827.78	60.51	14.89	80.83	-904.59	-591.05	2930.98	2856.31	39.25	
9000.00	6916.44	6826.49	6825.01	63.18	14.88	89.07	-904.62	-590.95	3026.18	2948.14	38.78	
9100.00	6919.20	6825.78	6824.30	65.85	14.88	89.02	-904.63	-590.92	3121.73	3041.02	38.68	
9200.00	6921.97	6825.07	6823.59	68.53	14.88	88.98	-904.64	-590.89	3217.56	3134.16	38.58	
9300.00	6924.73	6824.37	6822.88	71.21	14.88	88.93	-904.64	-590.87	3313.62	3227.55	38.50	
9400.00	6927.49	6823.67	6822.19	73.90	14.88	88.89	-904.65	-590.84	3409.92	3321.16	38.42	
9500.00	6930.25	6822.98	6821.50	76.60	14.88	88.85	-904.66	-590.82	3506.42	3414.97	38.34	
9600.00	6933.01	6822.30	6820.82	79.29	14.88	88.80	-904.67	-590.79	3603.11	3508.96	38.27	
9700.00	6935.77	6821.62	6820.14	82.00	14.88	88.76	-904.68	-590.77	3699.98	3603.13	38.20	
9800.00	6938.53	6820.95	6819.47	84.70	14.88	88.72	-904.68	-590.75	3797.01	3697.46	38.14	
9900.00	6941.29	6820.28	6818.81	87.41	14.88	88.68	-904.69	-590.72	3894.19	3791.93	38.08	
10000.00	6944.05	6819.62	6818.15	90.12	14.88	88.63	-904.70	-590.70	3991.51	3886.54	38.03	
10100.00	6946.81	6818.97	6817.50	92.84	14.88	88.59	-904.71	-590.67	4088.96	3981.28	37.97	
10200.00	6949.57	6818.32	6816.85	95.55	14.87	88.55	-904.71	-590.65	4186.53	4076.14	37.93	
10300.00	6952.33	6817.68	6816.21	98.27	14.87	88.51	-904.72	-590.63	4284.21	4171.10	37.88	
10400.00	6955.09	6817.05	6815.57	100.99	14.87	88.47	-904.73	-590.61	4381.99	4266.17	37.83	
10500.00	6957.85	6816.42	6814.94	103.71	14.87	88.43	-904.74	-590.58	4479.88	4361.34	37.79	
10600.00	6960.61	6815.80	6814.32	106.44	14.87	88.39	-904.74	-590.56	4577.85	4456.59	37.75	
10700.00	6963.37	6815.18	6813.70	109.16	14.87	88.35	-904.75	-590.54	4675.91	4551.93	37.72	
10800.00	6966.13	6814.56	6813.09	111.89	14.87	88.32	-904.76	-590.52	4774.05	4647.35	37.68	
10900.00	6968.89	6813.96	6812.48	114.62	14.87	88.28	-904.77	-590.50	4872.27	4742.84	37.65	
11000.00	6971.65	6813.36	6811.88	117.35	14.87	88.24	-904.77	-590.47	4970.55	4838.40	37.61	
11100.00	6974.41	6812.76	6811.29	120.08	14.87	88.20	-904.78	-590.45	5068.91	4934.03	37.58	
11200.00	6977.17	6812.17	6810.69	122.81	14.87	88.16	-904.79	-590.43	5167.33	5029.72	37.55	
11300.00	6979.93	6811.58	6810.11	125.54	14.87	88.13	-904.79	-590.41	5265.80	5125.47	37.52	
11400.00	6982.69	6811.00	6809.53	128.27	14.87	88.09	-904.80	-590.39	5364.34	5221.28	37.50	
11500.00	6985.45	6810.42	6808.95	131.01	14.86	88.05	-904.81	-590.37	5462.92	5317.13	37.47	



Weatherford Anticollision Report



Company: Devon Energy Date: 7/2/2012 Time: 10 07 09 Page: 21
Field: Eddy Co., NM (NAD 83)
Reference Site: Agate PWU 21 #6H Co-ordinate(NE) Reference: Well. Agate PWU 21 #6H, Grid North
Reference Well: Agate PWU 21 #6H Vertical (TVD) Reference: SITE 3336 0
Reference Wellpath: Db: Sybase

Site: Exist Parkway 13
Well: Exist Parkway 13
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11600.00	6988.21	6809.85	6808.38	133.74	14.86	88.02	-904.81	-590.35	5561.56	5413.04	37.45	
11700.00	6990.98	6809.28	6807.81	136.48	14.86	87.98	-904.82	-590.33	5660.24	5508.99	37.42	
11800.00	6993.74	6808.72	6807.25	139.21	14.86	87.95	-904.83	-590.31	5758.97	5604.99	37.40	
11900.00	6996.50	6808.16	6806.70	141.95	14.86	87.91	-904.84	-590.29	5857.74	5701.03	37.38	
12000.00	6999.26	6807.61	6806.14	144.69	14.86	87.88	-904.84	-590.27	5956.56	5797.11	37.36	
12100.00	7002.02	6807.06	6805.60	147.43	14.86	87.84	-904.85	-590.25	6055.41	5893.23	37.34	
12200.00	7004.78	6800.00	6798.54	150.17	14.85	87.40	-904.93	-590.01	6154.30	5989.45	37.33	
12300.00	7007.54	6800.00	6798.54	152.90	14.85	87.40	-904.93	-590.01	6253.23	6085.63	37.31	
12400.00	7010.30	6800.00	6798.54	155.64	14.85	87.40	-904.93	-590.01	6352.19	6181.86	37.29	
12500.00	7013.06	6800.00	6798.54	158.39	14.85	87.40	-904.93	-590.01	6451.18	6278.11	37.28	
12600.00	7015.82	6800.00	6798.54	161.13	14.85	87.40	-904.93	-590.01	6550.20	6374.39	37.26	
12700.00	7018.58	6800.00	6798.54	163.87	14.85	87.40	-904.93	-590.01	6649.25	6470.70	37.24	
12800.00	7021.34	6800.00	6798.54	166.61	14.85	87.40	-904.93	-590.01	6748.32	6567.04	37.23	
12900.00	7024.10	6800.00	6798.54	169.35	14.85	87.40	-904.93	-590.01	6847.43	6663.40	37.21	
13000.00	7026.86	6800.00	6798.54	172.09	14.85	87.40	-904.93	-590.01	6946.56	6759.80	37.19	
13100.00	7029.62	6800.00	6798.54	174.84	14.85	87.40	-904.93	-590.01	7045.71	6856.21	37.18	
13200.00	7032.38	6800.00	6798.54	177.58	14.85	87.40	-904.93	-590.01	7144.89	6952.65	37.17	
13300.00	7035.14	6800.00	6798.54	180.32	14.85	87.40	-904.93	-590.01	7244.09	7049.11	37.15	
13400.00	7037.90	6800.00	6798.54	183.07	14.85	87.40	-904.93	-590.01	7343.32	7145.59	37.14	
13500.00	7040.23	6800.00	6798.54	185.81	14.85	83.54	-904.93	-590.01	7442.56	7243.02	37.30	
13600.00	7042.15	6800.00	6798.54	188.56	14.85	83.54	-904.93	-590.01	7541.81	7339.55	37.29	
13700.00	7044.07	6797.02	6795.56	191.30	14.85	83.36	-904.97	-589.90	7641.08	7436.17	37.29	
13800.00	7046.00	6795.81	6794.34	194.05	14.85	83.28	-904.99	-589.86	7740.38	7532.76	37.28	
13900.00	7047.92	6794.60	6793.14	196.79	14.84	83.21	-905.00	-589.82	7839.69	7629.37	37.28	
14000.00	7049.84	6793.39	6791.93	199.54	14.84	83.13	-905.02	-589.78	7939.02	7726.01	37.27	
14100.00	7051.77	6792.19	6790.74	202.29	14.84	83.06	-905.03	-589.74	8038.36	7822.65	37.27	
14200.00	7053.69	6791.00	6789.55	205.03	14.84	82.98	-905.05	-589.70	8137.72	7919.32	37.26	
14300.00	7055.62	6789.82	6788.36	207.78	14.84	82.91	-905.06	-589.66	8237.10	8016.00	37.26	
14400.00	7057.54	6788.64	6787.19	210.53	14.84	82.84	-905.08	-589.61	8336.49	8112.69	37.25	
14500.00	7059.46	6787.47	6786.01	213.27	14.84	82.76	-905.09	-589.57	8435.89	8209.41	37.25	
14600.00	7061.39	6786.30	6784.85	216.02	14.83	82.69	-905.11	-589.53	8535.31	8306.13	37.24	
14700.00	7063.31	6785.14	6783.69	218.77	14.83	82.62	-905.12	-589.49	8634.74	8402.87	37.24	
14800.00	7065.23	6783.99	6782.54	221.51	14.83	82.55	-905.13	-589.46	8734.18	8499.62	37.24	
14900.00	7067.16	6782.84	6781.39	224.26	14.83	82.48	-905.15	-589.42	8833.64	8596.39	37.23	
15000.00	7069.08	6781.70	6780.25	227.01	14.83	82.41	-905.16	-589.38	8933.11	8693.17	37.23	
15100.00	7071.01	6780.56	6779.11	229.76	14.83	82.34	-905.18	-589.34	9032.59	8789.96	37.23	
15200.00	7072.93	6779.43	6777.98	232.51	14.82	82.27	-905.19	-589.30	9132.08	8886.76	37.23	
15300.00	7074.85	6778.30	6776.86	235.26	14.82	82.20	-905.21	-589.26	9231.58	8983.58	37.22	
15400.00	7076.78	6777.18	6775.74	238.00	14.82	82.13	-905.22	-589.22	9331.09	9080.41	37.22	
15500.00	7078.70	6776.07	6774.62	240.75	14.82	82.06	-905.23	-589.19	9430.61	9177.24	37.22	
15600.00	7080.63	6774.96	6773.52	243.50	14.82	81.99	-905.25	-589.15	9530.15	9274.09	37.22	
15700.00	7082.55	6773.86	6772.41	246.25	14.82	81.92	-905.26	-589.11	9629.69	9370.95	37.22	
15800.00	7084.47	6772.76	6771.32	249.00	14.82	81.85	-905.27	-589.07	9729.24	9467.82	37.22	
15900.00	7086.40	6771.67	6770.23	251.75	14.81	81.79	-905.29	-589.04	9828.80	9564.70	37.22	
16000.00	7088.32	6770.59	6769.14	254.50	14.81	81.72	-905.30	-589.00	9928.37	9661.58	37.21	

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: July 02, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Agate PWU 21 #6H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM (NAD 83)
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 599285.260 USFT	Latitude 32.6472456 DEG
East/West 616483.030 USFT	Longitude -104.0891887 DEG
Grid Convergence: <u>-13°</u>	
Total Correction: <u>+7.53°</u>	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.64725° N	32° 38 min 50.084 sec
Longitude =	104.08919° W	104° 5 min 21.080 sec

Magnetic Declination =	7.66°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6649
Local Field Strength =	48677 nT	Magnetic Vector X = 23792 nT
Magnetic Dip =	60.45°	Magnetic Vector Y = 3201 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42345 nT
Spud Date =	Jan 15, 2013	Magnetic Vector H = 24006 nT

Signed: _____

Date: _____