

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 88410

District IV

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

RECEIVED

DEC 28 2009
HOBBS CO

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-38335	² Pool Code 55510	³ Pool Name Scanlon Draw PARKWAY; BONE SPRING
⁴ Property Code 38432	⁵ Property Name AGATE PWU "21"	
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁶ Well Number 1H
		⁹ Elevation 3322.4

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	19 S	29 E		575	NORTH	330	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

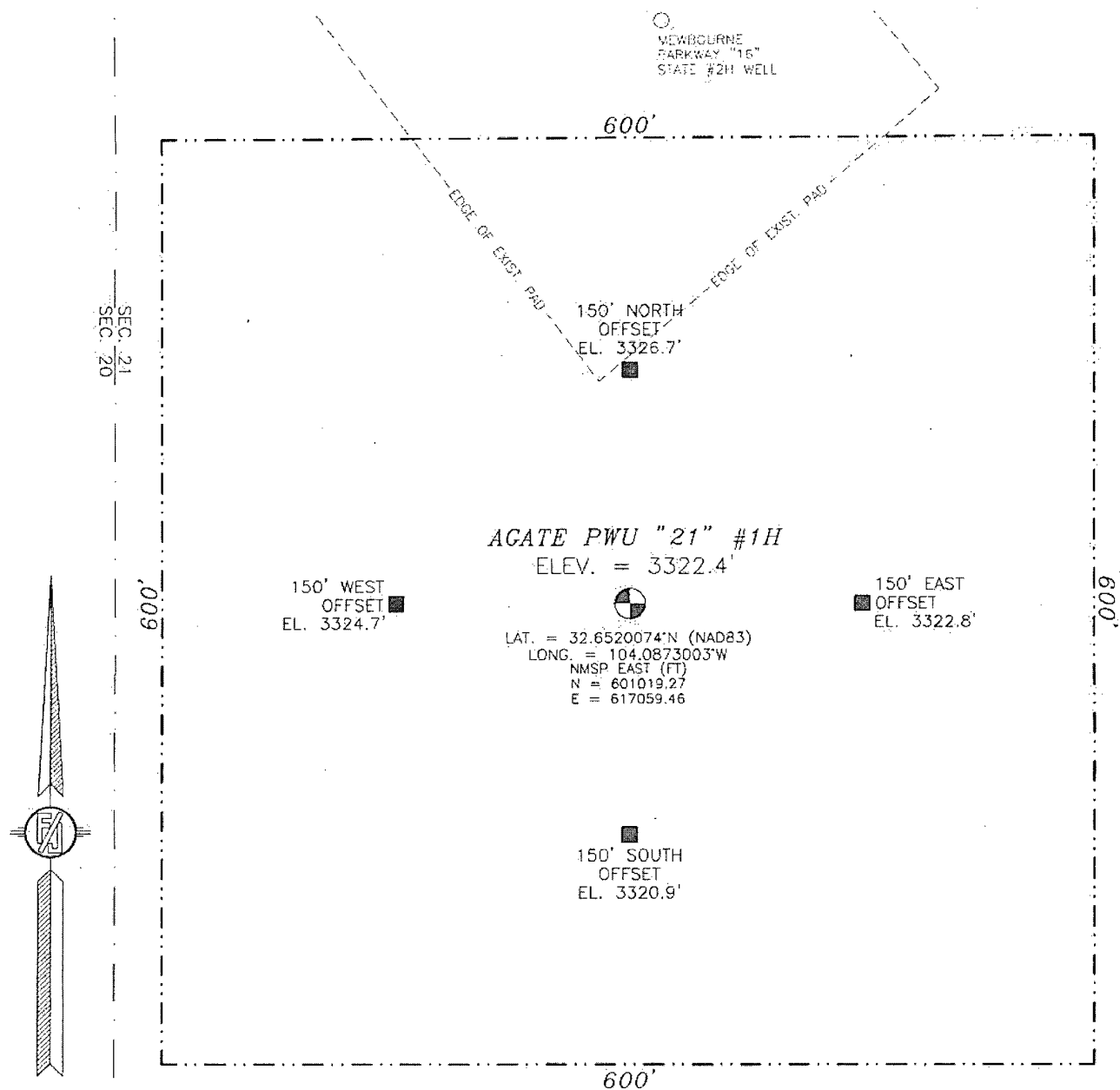
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	19 S	29 E		400	NORTH	330	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

330' SURFACE LOCATION NW CORNER SEC. 21 LAT. = 32.6535924°N LONG. = 104.0883657°W NMSP EAST (FT) N = 601595.30 E = 616730.14		AGATE PWU "21" #1H ELEV. = 3322.4' LAT. = 32.6520074°N (NAD83) LONG. = 104.0873003°W NMSP EAST (FT) N = 601019.27 E = 617059.46		BOTTOM OF HOLE LAT. = 32.6524487°N LONG. = 104.0722850°W NMSP EAST (FT) N = 601190.90 E = 621681.50		BOTTOM OF HOLE NE CORNER SEC. 21 LAT. = 32.6535461°N LONG. = 104.0712025°W NMSP EAST (FT) N = 601591.06 E = 622013.77	
PENETRATION POINT: 575' FNL & 530' FWL							
☐ PRODUCING AREA				☐ PROJECT AREA			
SW CORNER SEC. 21 LAT. = 32.6390700°N LONG. = 104.0883927°W NMSP EAST (FT) N = 596310.66 E = 616734.00		SE CORNER SEC. 21 LAT. = 32.6390370°N LONG. = 104.0712464°W NMSP EAST (FT) N = 596311.23 E = 622013.28		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>[Signature]</i> Date: 12/27/2009 Printed Name: _____			
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. DECEMBER 14, 2009 NEW MEXICO Date of Survey: _____ Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 27797 SURVEY NO. 341							

SECTION 21, 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 CR. 235 (CURRY COMB - CALICHE) AND CR. 210 (OLD LOCO - CALICHE) GO WEST ON CR. 235 0.35 MILES, TURN LEFT AND GO SOUTH 0.1 MILE TO THE EXISTING (MEWBOURNE) PARKWAY "16" STATE #2H WELL, LOCATION IS DUE SOUTH OF WELL 376'.

DEVON ENERGY PRODUCTION COMPANY, L.P.

AGATE PWU "21" #1H

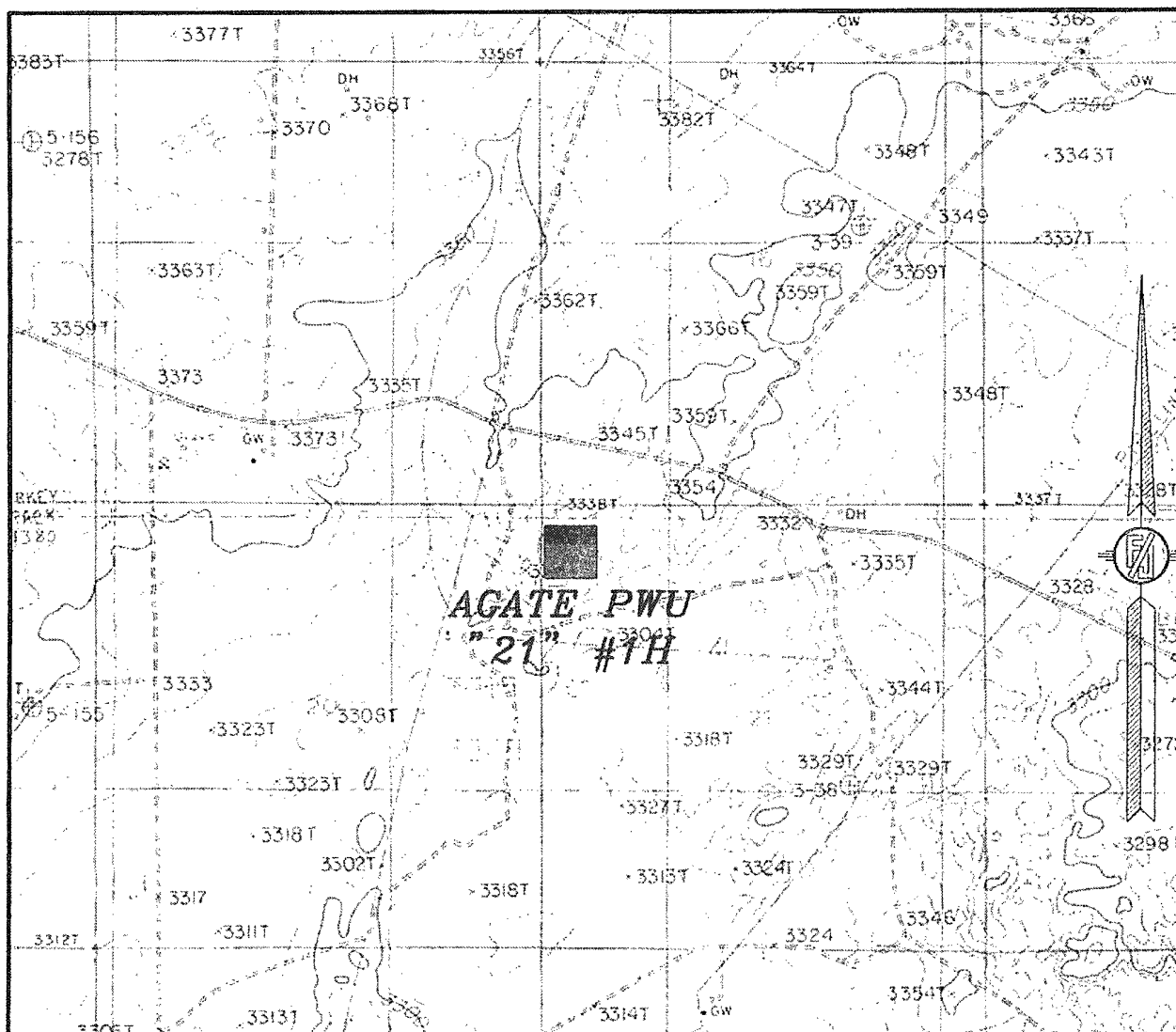
LOCATED 575 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 21, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 14, 2010

SURVEY NO. 341

MADRON SURVEYING, INC. 301 SOUTH CANAL, CARLSBAD, NEW MEXICO
(575) 887-5810

SECTION 21, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
 ILLINOIS CAMP NE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
AGATE PWU "21" #1H
 LOCATED 575 FT. FROM THE NORTH LINE
 AND 330 FT. FROM THE WEST LINE OF
 SECTION 21, TOWNSHIP 19 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

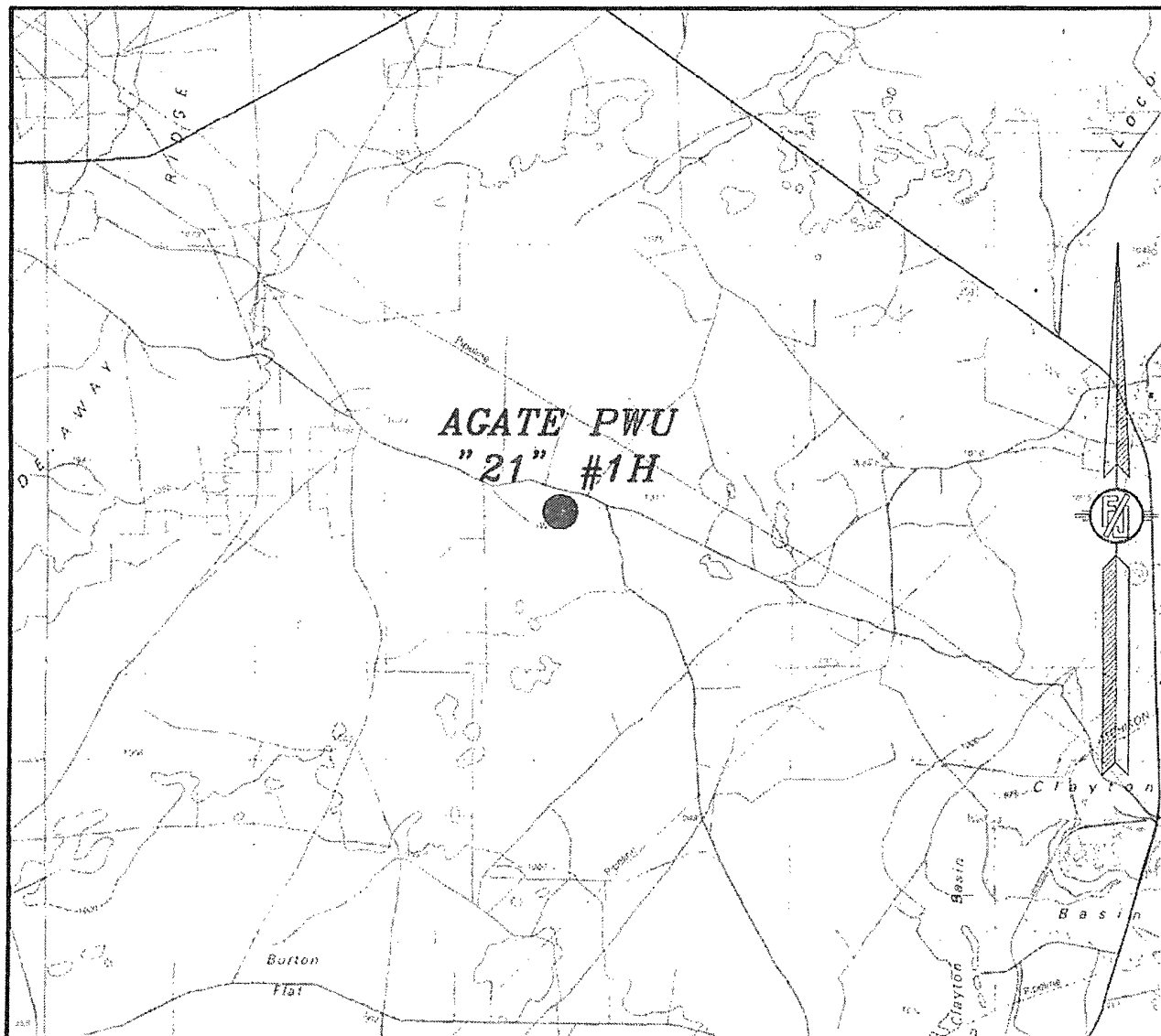
DECEMBER 14, 2010

SURVEY NO. 341

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

501 SOUTH CANAL
 (505) 887-5830

SECTION 21, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

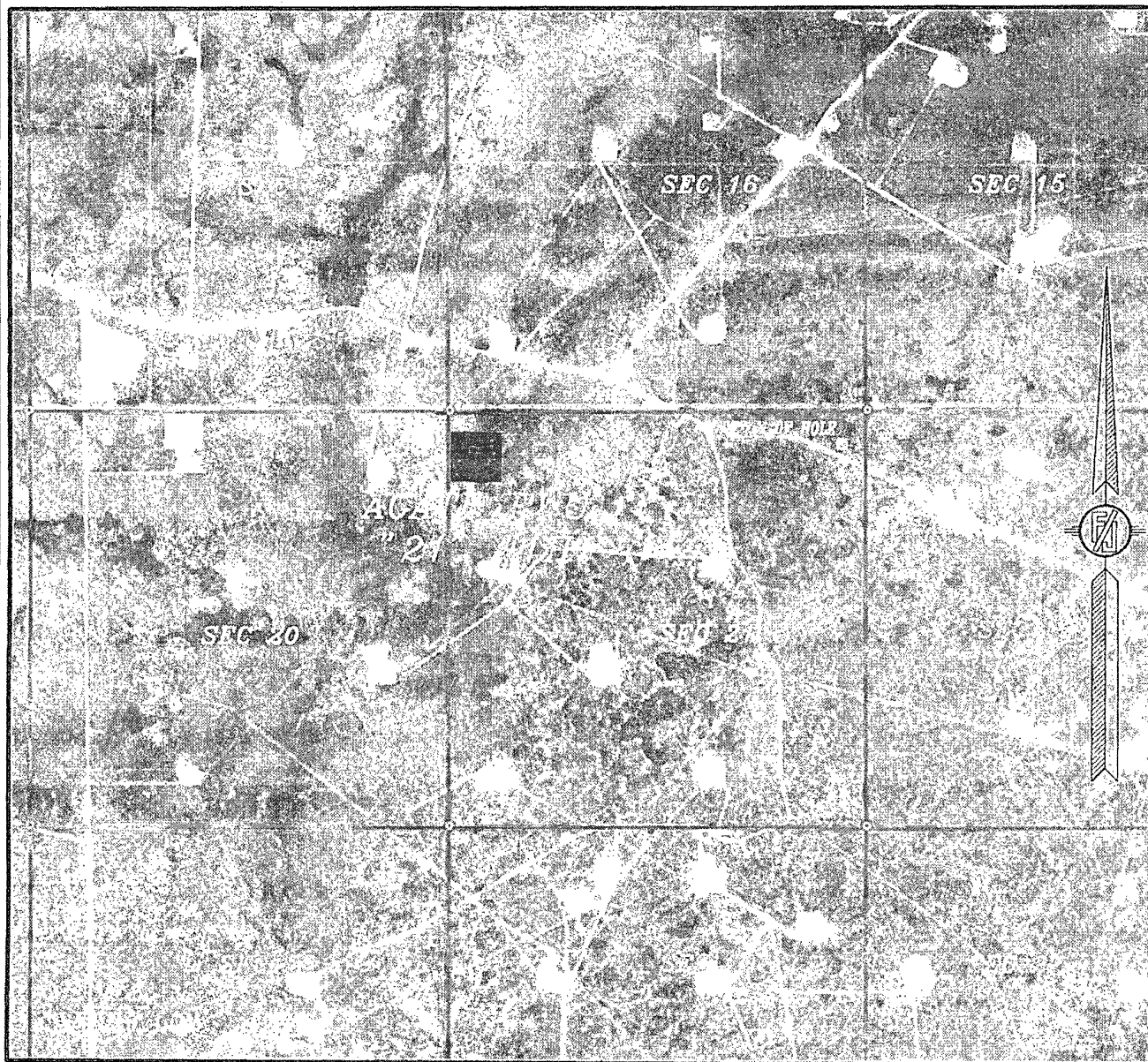
DEVON ENERGY PRODUCTION COMPANY, L.P.
AGATE PWU "21" #1H
LOCATED 575 FT. FROM THE NORTH LINE
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SECTION 21, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 14, 2010

SURVEY NO. 341

MADRON SURVEYING, INC. 501 SOUTH CANAL (575) 897-5850 CARLSBAD, NEW MEXICO

SECTION 21, 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
USDA - AUG, 2009

DEVON ENERGY PRODUCTION COMPANY, L.P.
AGATE PWU "21" #1H
LOCATED 575 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 21, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 14, 2010

SURVEY NO. 341

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5839

SECTION LAND PLAT

County Eddy State New Mexico

Section 21 Township 19 S Range 29 E

Agate PWU 21 1 H

SHL: 575' FNL, 330' FWL / BHL: 400' FNL, 330' FEL

SHL State NM K0 4251	State NM K0 3702	BHL State NM L0 6520	



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HOBBSOCD

Drilling Services

Proposal



devon

AGATE PWU 21 #1H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

DECEMBER 20, 2010

Weatherford International, Ltd.

P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com



Agate PWU 21 #1H
Eddy Co, NM



KB ELEV: 3347
GL ELEV: 3322

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	87.87	0.00	0.00	0.00	0.00	0.00	0.00	
2	7267.10	0.00	87.87	7267.10	0.00	0.00	0.00	0.00	0.00	
3	8159.34	89.22	87.87	7840.00	20.97	564.81	10.00	87.87	565.20	
4	12219.74	89.22	87.87	7895.00	171.63	4622.04	0.00	0.00	4625.23	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Agate PWU 21 #1H	0.00	0.00	601019.27	617059.46	32°39'07.218N	104°05'14.305W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7895.00	171.63	4622.04	601190.90	621681.50	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

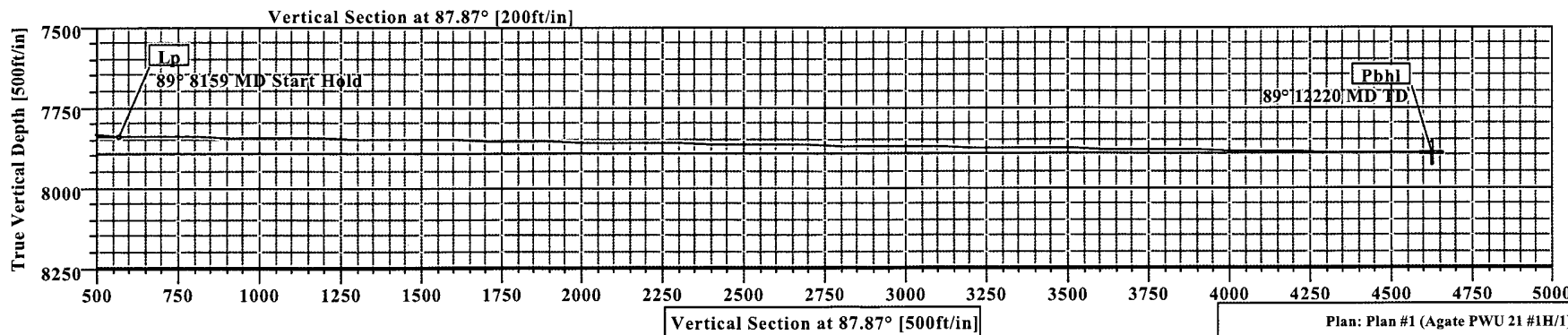
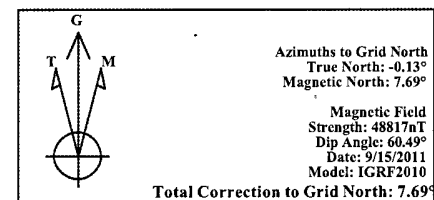
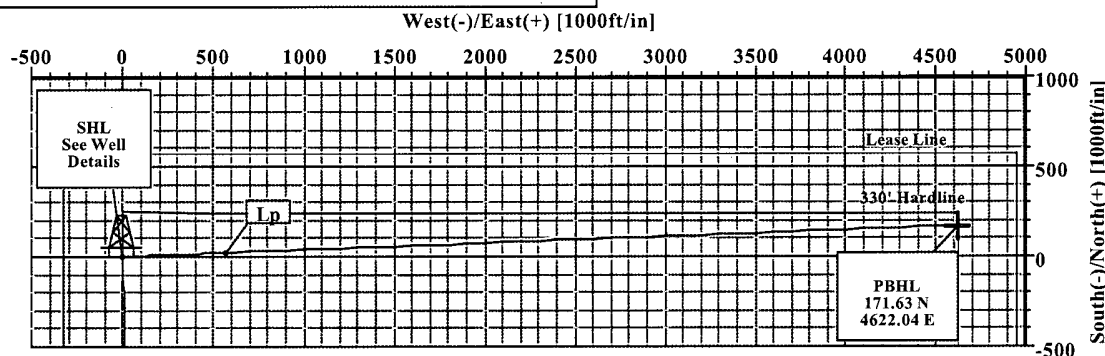
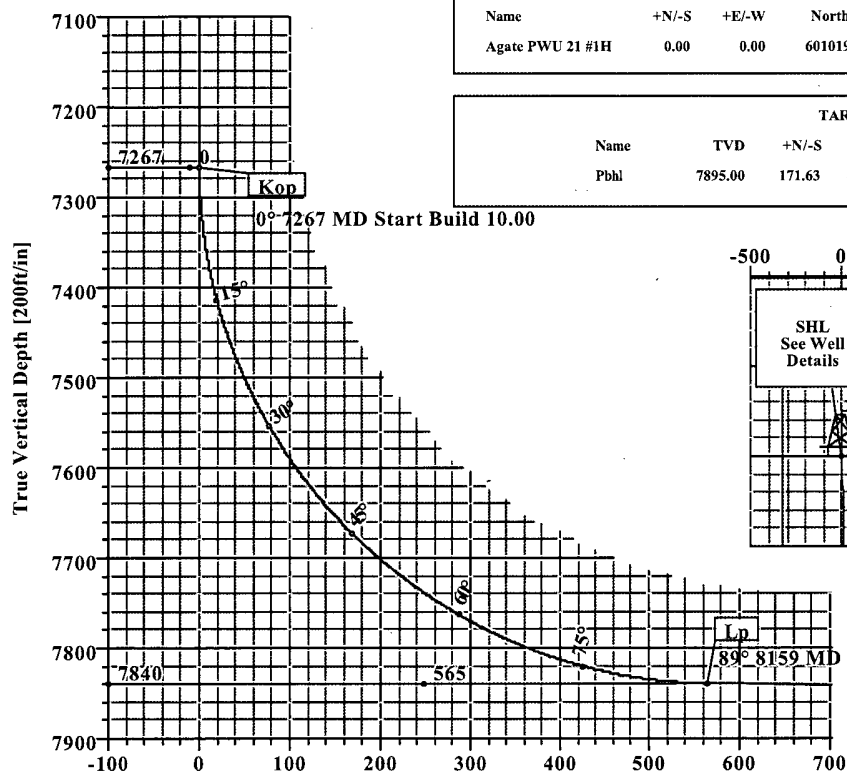
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Agate PWU 21 #1H

Site Centre Northing: 601019.27
Easting: 617059.46

Ground Level: 3322.00
Positional Uncertainty: 0.00
Convergence: 0.13



Plan: Plan #1 (Agate PWU 21 #1H/I)
Created By: Russell W. Joyner
Date: 12/20/2010



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Devon Energy Date: 12/20/2010 Time: 13:47:44 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Agate PWU 21 #1H, Grid North
Site: Agate PWU 21 #1H Vertical (TVD) Reference: SITE 3347.0
Well: Agate PWU 21 #1H Section (VS) Reference: Well (0.00N,0.00E,87.87Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 12/20/2010
Principal: Yes Version: 1
Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983 Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980 Coordinate System: Well Centre
Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Agate PWU 21 #1H

Site Position: Northing: 601019.27 ft Latitude: 32 39 7.218 N
From: Map Easting: 617059.46 ft Longitude: 104 5 14.305 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3322.00 ft Grid Convergence: 0.13 deg

Well: Agate PWU 21 #1H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 601019.27 ft Latitude: 32 39 7.218 N
+E/-W 0.00 ft Easting: 617059.46 ft Longitude: 104 5 14.305 W
Position Uncertainty: 0.00 ft

Wellpath: 1
Current Datum: SITE Height 3347.00 ft
Magnetic Data: 9/15/2011
Field Strength: 48817 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
7895.00 0.00 0.00 87.87

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	87.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7267.10	0.00	87.87	7267.10	0.00	0.00	0.00	0.00	0.00	0.00	
8159.34	89.22	87.87	7840.00	20.97	564.81	10.00	10.00	0.00	87.87	
12219.74	89.22	87.87	7895.00	171.63	4622.04	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
7200.00	0.00	87.87	7200.00	0.00	0.00	0.00	0.00	601019.27	617059.46	Kop
7267.10	0.00	87.87	7267.10	0.00	0.00	0.00	0.00	601019.27	617059.46	
7300.00	3.29	87.87	7299.98	0.04	0.94	0.94	10.00	601019.31	617060.40	
7400.00	13.29	87.87	7398.81	0.57	15.33	15.35	10.00	601019.84	617074.79	
7500.00	23.29	87.87	7493.64	1.73	46.66	46.69	10.00	601021.00	617106.12	
7600.00	33.29	87.87	7581.58	3.49	93.96	94.02	10.00	601022.76	617153.42	Lp
7700.00	43.29	87.87	7659.97	5.79	155.80	155.91	10.00	601025.06	617215.26	
7800.00	53.29	87.87	7726.42	8.55	230.31	230.47	10.00	601027.82	617289.77	
7900.00	63.29	87.87	7778.92	11.70	315.21	315.43	10.00	601030.97	617374.67	
8000.00	73.29	87.87	7815.86	15.15	407.94	408.22	10.00	601034.42	617467.40	
8100.00	83.29	87.87	7836.13	18.78	505.67	506.01	10.00	601038.05	617565.13	
8159.34	89.22	87.87	7840.00	20.97	564.81	565.20	10.00	601040.24	617624.27	
8200.00	89.22	87.87	7840.55	22.48	605.44	605.86	0.00	601041.75	617664.90	
8300.00	89.22	87.87	7841.91	26.19	705.36	705.85	0.00	601045.46	617764.82	
8400.00	89.22	87.87	7843.26	29.90	805.28	805.84	0.00	601049.17	617864.74	
8500.00	89.22	87.87	7844.62	33.61	905.21	905.83	0.00	601052.88	617964.67	
8600.00	89.22	87.87	7845.97	37.32	1005.13	1005.82	0.00	601056.59	618064.59	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

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

Date: 12/20/2010 Time: 13:47:44 Page: 2
Co-ordinate(NE) Reference: Well: Agate PWU 21 #1H, Grid North
Vertical (TVD) Reference: SITE 3347.0
Section (VS) Reference: Well (0.00N,0.00E,87.87Azi)
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	Comment
8700.00	89.22	87.87	7847.32	41.03	1105.05	1105.81	0.00	601060.30	618164.51	
8800.00	89.22	87.87	7848.68	44.74	1204.97	1205.80	0.00	601064.01	618264.43	
8900.00	89.22	87.87	7850.03	48.45	1304.89	1305.79	0.00	601067.72	618364.35	
9000.00	89.22	87.87	7851.39	52.16	1404.82	1405.78	0.00	601071.43	618464.28	
9100.00	89.22	87.87	7852.74	55.88	1504.74	1505.78	0.00	601075.15	618564.20	
9200.00	89.22	87.87	7854.10	59.59	1604.66	1605.77	0.00	601078.86	618664.12	
9300.00	89.22	87.87	7855.45	63.30	1704.58	1705.76	0.00	601082.57	618764.04	
9400.00	89.22	87.87	7856.81	67.01	1804.50	1805.75	0.00	601086.28	618863.96	
9500.00	89.22	87.87	7858.16	70.72	1904.43	1905.74	0.00	601089.99	618963.89	
9600.00	89.22	87.87	7859.52	74.43	2004.35	2005.73	0.00	601093.70	619063.81	
9700.00	89.22	87.87	7860.87	78.14	2104.27	2105.72	0.00	601097.41	619163.73	
9800.00	89.22	87.87	7862.22	81.85	2204.19	2205.71	0.00	601101.12	619263.65	
9900.00	89.22	87.87	7863.58	85.56	2304.11	2305.70	0.00	601104.83	619363.57	
10000.00	89.22	87.87	7864.93	89.27	2404.04	2405.69	0.00	601108.54	619463.50	
10100.00	89.22	87.87	7866.29	92.98	2503.96	2505.68	0.00	601112.25	619563.42	
10200.00	89.22	87.87	7867.64	96.69	2603.88	2605.67	0.00	601115.96	619663.34	
10300.00	89.22	87.87	7869.00	100.40	2703.80	2705.67	0.00	601119.67	619763.26	
10400.00	89.22	87.87	7870.35	104.11	2803.72	2805.66	0.00	601123.38	619863.18	
10500.00	89.22	87.87	7871.71	107.82	2903.65	2905.65	0.00	601127.09	619963.11	
10600.00	89.22	87.87	7873.06	111.53	3003.57	3005.64	0.00	601130.80	620063.03	
10700.00	89.22	87.87	7874.42	115.24	3103.49	3105.63	0.00	601134.51	620162.95	
10800.00	89.22	87.87	7875.77	118.95	3203.41	3205.62	0.00	601138.22	620262.87	
10900.00	89.22	87.87	7877.12	122.66	3303.33	3305.61	0.00	601141.93	620362.79	
11000.00	89.22	87.87	7878.48	126.37	3403.26	3405.60	0.00	601145.64	620462.72	
11100.00	89.22	87.87	7879.83	130.08	3503.18	3505.59	0.00	601149.35	620562.64	
11200.00	89.22	87.87	7881.19	133.79	3603.10	3605.58	0.00	601153.06	620662.56	
11300.00	89.22	87.87	7882.54	137.50	3703.02	3705.57	0.00	601156.77	620762.48	
11400.00	89.22	87.87	7883.90	141.21	3802.94	3805.56	0.00	601160.48	620862.40	
11500.00	89.22	87.87	7885.25	144.92	3902.87	3905.56	0.00	601164.19	620962.33	
11600.00	89.22	87.87	7886.61	148.64	4002.79	4005.55	0.00	601167.91	621062.25	
11700.00	89.22	87.87	7887.96	152.35	4102.71	4105.54	0.00	601171.62	621162.17	
11800.00	89.22	87.87	7889.31	156.06	4202.63	4205.53	0.00	601175.33	621262.09	
11900.00	89.22	87.87	7890.67	159.77	4302.55	4305.52	0.00	601179.04	621362.01	
12000.00	89.22	87.87	7892.02	163.48	4402.48	4405.51	0.00	601182.75	621461.94	
12100.00	89.22	87.87	7893.38	167.19	4502.40	4505.50	0.00	601186.46	621561.86	
12200.00	89.22	87.87	7894.73	170.90	4602.32	4605.49	0.00	601190.17	621661.78	
12219.74	89.22	87.87	7895.00	171.63	4622.04	4625.23	0.00	601190.90	621681.50	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
Pbhl			7895.00	171.63	4622.04	601190.90	621681.50	32	39	8.807 N	104	4	20.237 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



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

Date: 12/20/2010 **Time:** 13:47:44 **Page:** 3
Co-ordinate(NE) Reference: Well: Agate PWU 21 #1H, Grid North
Vertical (TVD) Reference: SITE 3347.0
Section (VS) Reference: Well (0.00N,0.00E,87.87Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Annotation

MD ft	TVD ft	
7267.10	7267.10	Kop
8159.34	7840.00	Lp
12219.73	7895.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: December 20, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Agate PWU 21 #1H
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 601019.270 USFT	Latitude 32.6520082 DEG
East/West 617059.460 USFT	Longitude -104.0873029 DEG
Grid Convergence: .13°	
Total Correction: +7.70°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.65201° N	32° 39 min 7.230 sec
Longitude =	104.08730° W	104° 5 min 14.291 sec

Magnetic Declination =	7.83°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6663
Local Field Strength =	48813 nT	Magnetic Vector X =	23822 nT
Magnetic Dip =	60.49°	Magnetic Vector Y =	3274 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42480 nT
Spud Date =	Sep 15, 2011	Magnetic Vector H =	24046 nT

Signed: _____

Date: _____