

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

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		2 Pool Code		3 Pool Name LOST TANK; DELAWARE	
4 Property Code		5 Property Name BIG ARISTOTLE 27 STATE			6 Well Number 1H
7 OGRID No. 6137		8 Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			9 Elevation 3488.3

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
B	34	21 S	31 E		660	NORTH	1690	EAST	EDDY

11 Bottom Hole Location If Different From Surface

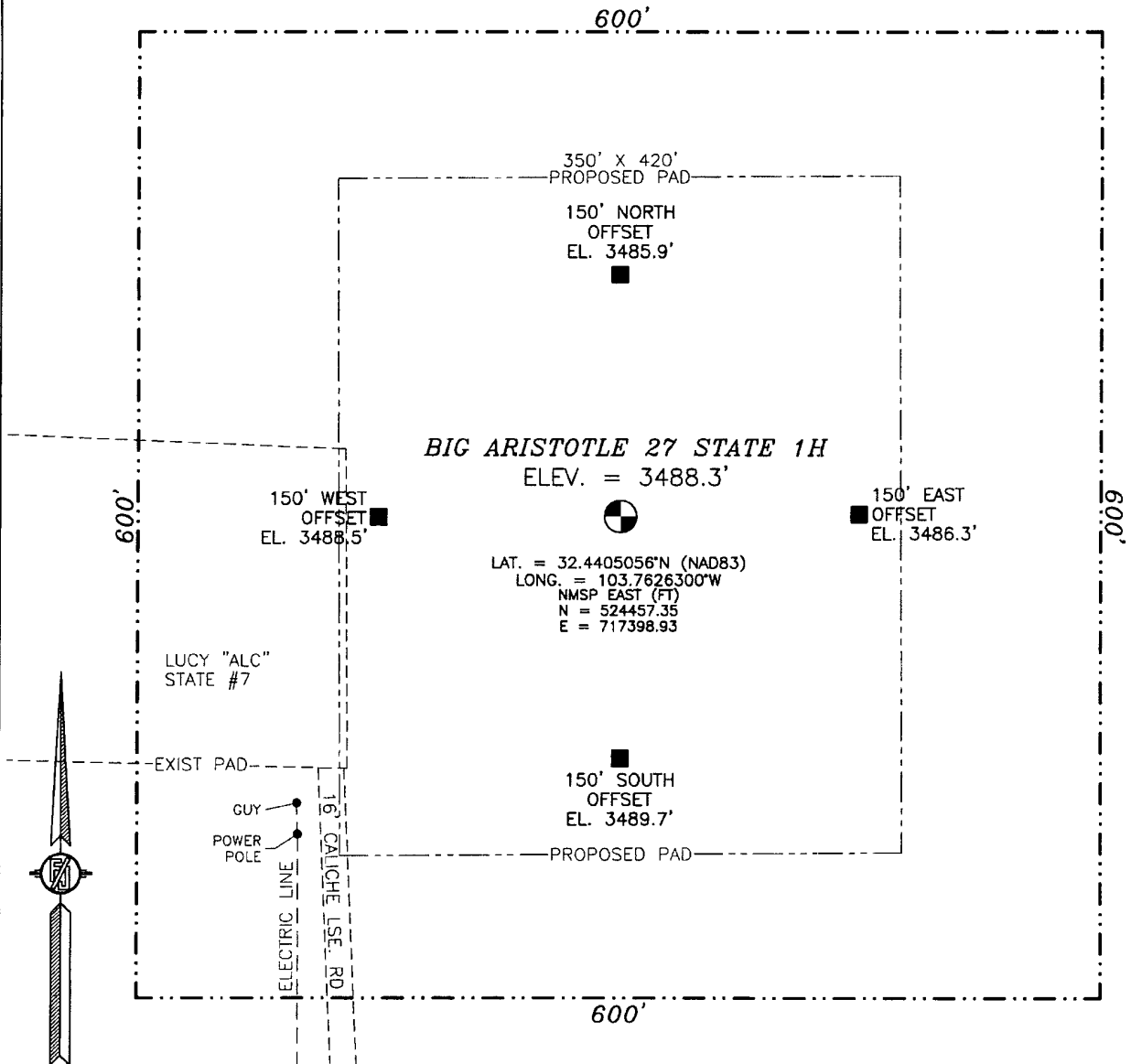
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	21 S	31 E		330	NORTH	1980	EAST	EDDY

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.

NW CORNER SEC. 27 LAT. = 32.4568508°N LONG. = 103.7742689°W NMSP EAST (FT) N = 530384.76 E = 713777.17 SECTION CORNER LAT. = 32.4423277°N LONG. = 103.7742711°W NMSP EAST (FT) N = 525101.25 E = 713804.14 SW CORNER SEC. 34 LAT. = 32.4278120°N LONG. = 103.7742753°W NMSP EAST (FT) N = 519820.43 E = 713830.48		NE CORNER SEC. 27 LAT. = 32.4568370°N LONG. = 103.7571414°W NMSP EAST (FT) N = 530407.84 E = 719060.11 SECTION CORNER LAT. = 32.4423165°N LONG. = 103.7571513°W NMSP EAST (FT) N = 525125.24 E = 719085.58 SE CORNER SEC. 34 LAT. = 32.4278020°N LONG. = 103.7571637°W NMSP EAST (FT) N = 519844.84 E = 719110.23	
BOTTOM OF HOLE LAT. = 32.4559362°N LONG. = 103.7635688°W NMSP EAST (FT) N = 530069.48 E = 717079.36 V- 87.48 SEC 27 SURFACE LOCATION 660'		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 released 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>Judy A. Barnett</i> Date: 3/22/11 Printed Name: Judy A. Barnett Regulatory Specialist 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 18, 2011 NEW MEXICO Date of Survey: 12/18/2011 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 12797 SURVEY NO 741	

SECTION 34, TOWNSHIP 21 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



012 60 120 240

SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. 62/180 (HOBBS HWY.) AND LOUIS WHITLOCK ROAD TO WIPP SITE AT 0.85 MILES EAST OF MILE MARKER 64 ON U.S. 62/180 GO SOUTH ON LOUIS WHITLOCK ROAD 7.7 MILES TO A CALICHE LEASE RD ON LEFT (EAST) ABOUT 0.7 MILES SOUTH OF MILE MARKER 6 GO EAST ON CALICHE RD 0.10 MILES TO CALICHE ROAD TO THE LEFT (NORTH) GO NORTH ON CALICHE ROAD 0.7 MILES SITE IS EAST OF EXISTING PAD (LUCY "ALC" STATE #7)

DEVON ENERGY PRODUCTION COMPANY, L.P.

BIG ARISTOTLE 27 STATE 1H

LOCATED 660 FT. FROM THE NORTH LINE

AND 1690 FT. FROM THE EAST LINE OF

SECTION 34, TOWNSHIP 21 SOUTH,

RANGE 31 EAST, N.M.P.M.

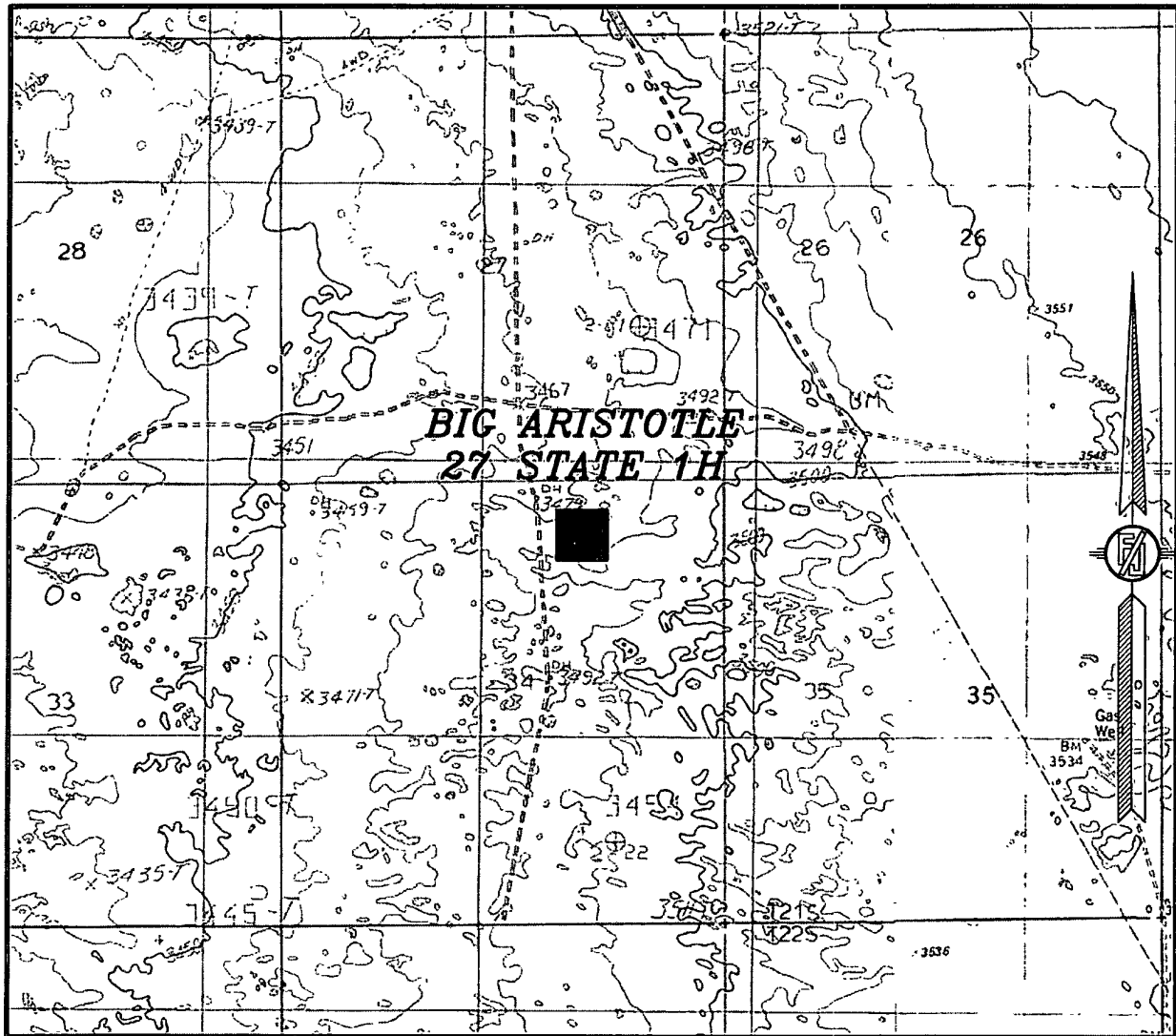
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 18, 2011

SURVEY NO. 741

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

SECTION 34, TOWNSHIP 21 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
LIVINGSTON RIDGE

NOT TO SCALE

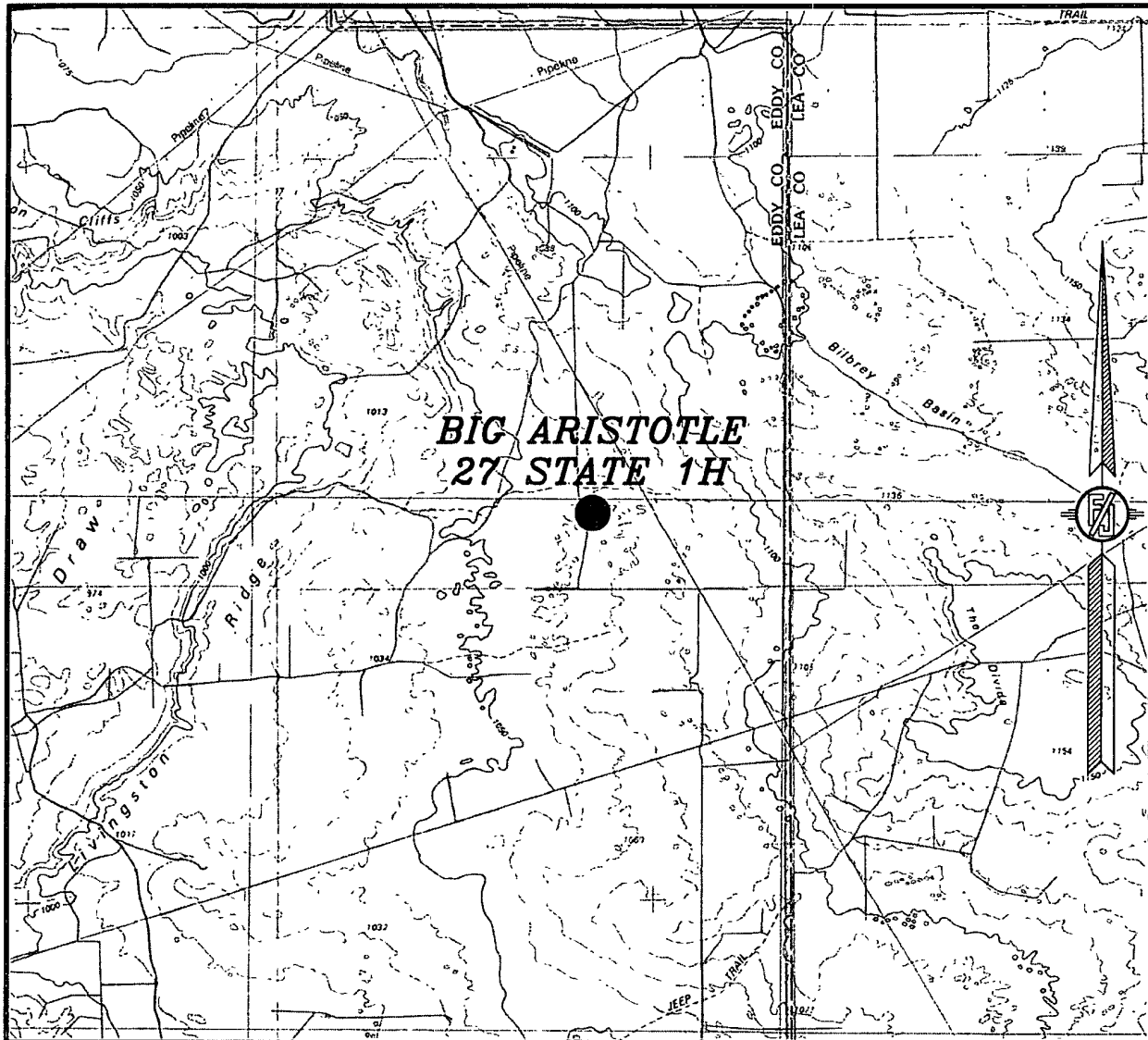
DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG ARISTOTLE 27 STATE 1H
LOCATED 660 FT. FROM THE NORTH LINE
AND 1690 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 21 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 18, 2011

SURVEY NO. 741

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

SECTION 34, TOWNSHIP 21 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

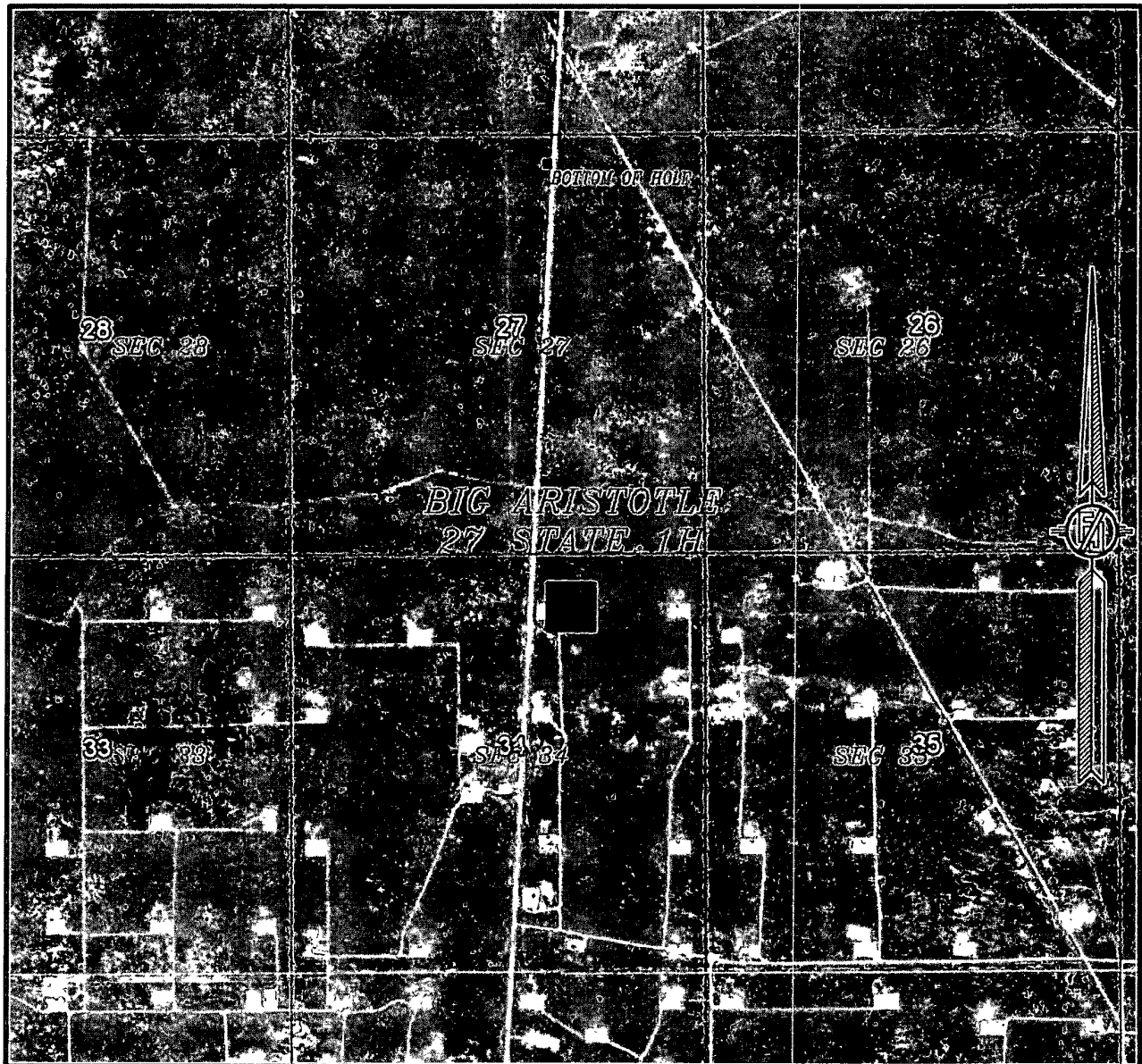
DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG ARISTOTLE 27 STATE 1H
LOCATED 660 FT. FROM THE NORTH LINE
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SECTION 34, TOWNSHIP 21 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 18, 2011

SURVEY NO. 741

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

SECTION 34, TOWNSHIP 21 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
OCT, 2010

DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG ARISTOTLE 27 STATE 1H

LOCATED 660 FT. FROM THE NORTH LINE
AND 1690 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 21 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 18, 2011

SURVEY NO. 741

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



Weatherford[®]

Drilling Services

Proposal



devon

BIG ARISTOTLE 27 STATE #1H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 20, 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



Big Aristotle 27 State #1H
Eddy Co., New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	356.74	0.00	0.00	0.00	0.00	0.00	0.00	
2	7352.05	0.00	356.74	7352.05	0.00	0.00	0.00	0.00	0.00	
3	8254.32	90.23	356.74	7925.00	574.30	-32.70	10.00	356.74	575.23	
4	13300.35	90.23	356.74	7905.00	5612.13	-319.57	0.00	0.00	5621.22	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
BA 27 State #1H	0.00	0.00	524457.35	717398.93	32°26'25.810N	103°45'45.485W	N/A

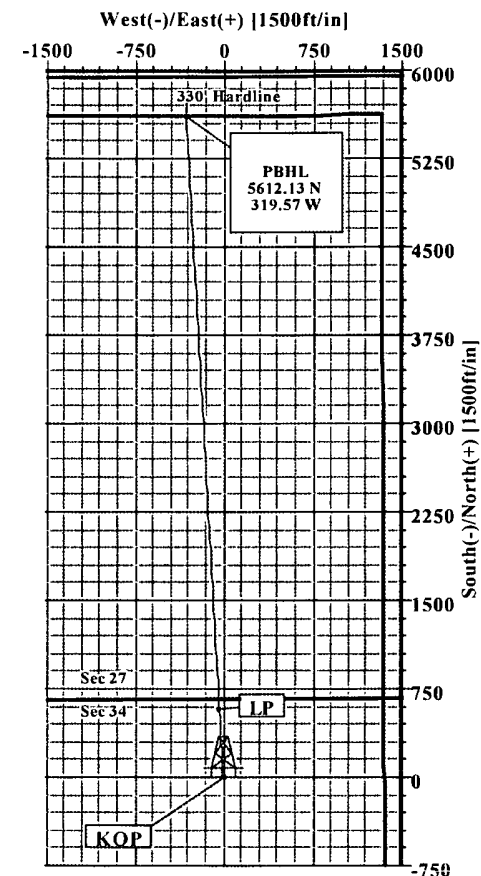
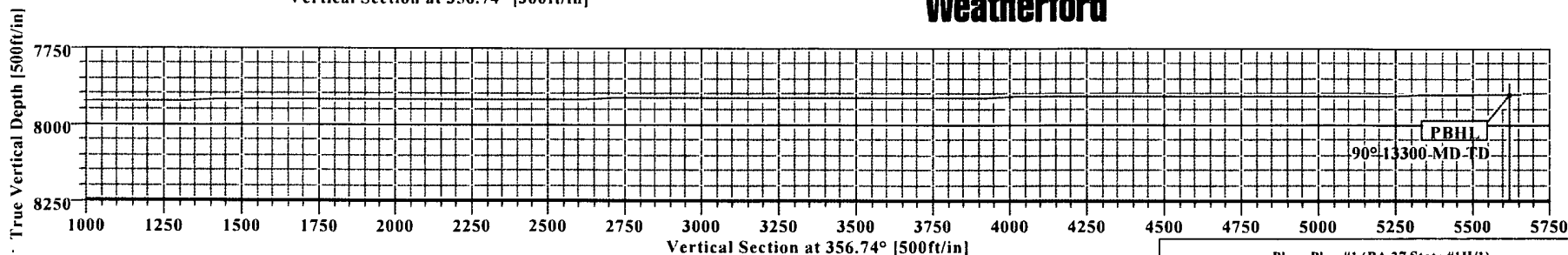
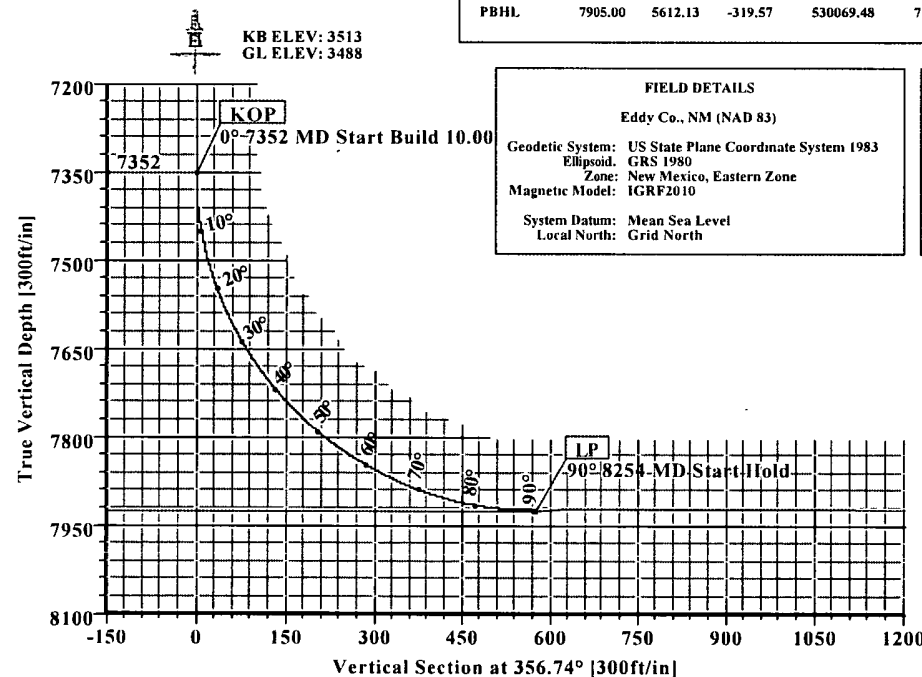
TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7905.00	5612.13	-319.57	530069.48	717079.36	32°27'21.360N	103°45'48.864W	Point

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	
Big Aristotle 27 State #1H	
Site Centre Northing:	524457.35
Easting:	717398.93
Ground Level:	3488.00
Positional Uncertainty:	0.00
Convergence:	0.31

	Azimuths to Grid North True North: -0.31° Magnetic North: 7.23°
	Magnetic Field Strength: 48626nT Dip Angle: 60.32° Date: 9/15/2012 Model: IGRF2010
	Total Correction to Grid North: 7.23°

LEGEND	
	Plan #1



SHL
See Well
Details

Plan: Plan #1 (BA 27 State #1H/1)
Created By: Russell W. Joyner
Date: 3/20/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/20/2012	Time: 08:56:14	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North		
Site: Big Aristotle 27 State #1H	Vertical (TVD) Reference: SITE 3513 0		
Well: BA 27 State #1H	Section (VS) Reference: Well (0 00N,0.00E,356.74Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 3/20/2012
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: Big Aristotle 27 State #1H

Site Position:	Northing: 524457.35 ft	Latitude: 32 26 25.810 N
From: Map	Easting: 717398.93 ft	Longitude: 103 45 45.485 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3488.00 ft		Grid Convergence: 0.31 deg

Well: BA 27 State #1H

Slot Name:

Well Position:	+N/-S 0.00 ft	Northing: 524457.35 ft	Latitude: 32 26 25.810 N
	+E/-W 0.00 ft	Easting: 717398.93 ft	Longitude: 103 45 45.485 W
Position Uncertainty: 0.00 ft			

Wellpath: 1

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.54 deg
Mag Dip Angle: 60.32 deg
+E/-W Direction
deg

Current Datum: SITE	Height 3513.00 ft
Magnetic Data: 9/15/2012	
Field Strength: 48626 nT	
Vertical Section: Depth From (TVD)	+N/-S
ft	ft
0.00	0.00

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	356.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7352.05	0.00	356.74	7352.05	0.00	0.00	0.00	0.00	0.00	0.00	
8254.32	90.23	356.74	7925.00	574.30	-32.70	10.00	10.00	0.00	356.74	
13300.35	90.23	356.74	7905.00	5612.13	-319.57	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
7300.00	0.00	356.74	7300.00	0.00	0.00	0.00	0.00	524457.35	717398.93	
7352.05	0.00	356.74	7352.05	0.00	0.00	0.00	0.00	524457.35	717398.93	KOP
7400.00	4.80	356.74	7399.94	2.00	-0.11	2.01	10.00	524459.35	717398.82	
7500.00	14.80	356.74	7498.36	18.97	-1.08	19.00	10.00	524476.32	717397.85	
7600.00	24.80	356.74	7592.33	52.73	-3.00	52.82	10.00	524510.08	717395.93	
7700.00	34.80	356.74	7679.00	102.28	-5.82	102.45	10.00	524559.63	717393.11	
7800.00	44.80	356.74	7755.74	166.10	-9.46	166.37	10.00	524623.45	717389.47	
7900.00	54.80	356.74	7820.21	242.25	-13.79	242.65	10.00	524699.60	717385.14	
8000.00	64.80	356.74	7870.46	328.43	-18.70	328.96	10.00	524785.78	717380.23	
8100.00	74.80	356.74	7904.95	422.00	-24.03	422.69	10.00	524879.35	717374.90	
8200.00	84.80	356.74	7922.65	520.14	-29.62	520.98	10.00	524977.49	717369.31	
8254.32	90.23	356.74	7925.00	574.30	-32.70	575.23	10.00	525031.65	717366.23	LP
8300.00	90.23	356.74	7924.82	619.90	-35.30	620.91	0.00	525077.25	717363.63	
8400.00	90.23	356.74	7924.43	719.74	-40.98	720.91	0.00	525177.09	717357.95	
8500.00	90.23	356.74	7924.03	819.58	-46.67	820.91	0.00	525276.93	717352.26	
8600.00	90.23	356.74	7923.63	919.42	-52.35	920.91	0.00	525376.77	717346.58	
8700.00	90.23	356.74	7923.24	1019.25	-58.04	1020.90	0.00	525476.60	717340.89	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Big Aristotle 27 State #1H
Well: BA 27 State #1H
Wellpath: 1

Date: 3/20/2012
Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North
Vertical (TVD) Reference: SITE 3513 0
Section (VS) Reference: Well (0 00N,0.00E,356.74Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Page: 2

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
8800.00	90.23	356.74	7922.84	1119.09	-63.72	1120.90	0.00	525576.44	717335.21	
8900.00	90.23	356.74	7922.44	1218.93	-69.41	1220.90	0.00	525676.28	717329.52	
9000.00	90.23	356.74	7922.05	1318.77	-75.09	1320.90	0.00	525776.12	717323.84	
9100.00	90.23	356.74	7921.65	1418.60	-80.78	1420.90	0.00	525875.95	717318.15	
9200.00	90.23	356.74	7921.25	1518.44	-86.46	1520.90	0.00	525975.79	717312.47	
9300.00	90.23	356.74	7920.86	1618.28	-92.15	1620.90	0.00	526075.63	717306.78	
9400.00	90.23	356.74	7920.46	1718.12	-97.83	1720.90	0.00	526175.47	717301.10	
9500.00	90.23	356.74	7920.07	1817.95	-103.52	1820.90	0.00	526275.30	717295.41	
9600.00	90.23	356.74	7919.67	1917.79	-109.20	1920.90	0.00	526375.14	717289.73	
9700.00	90.23	356.74	7919.27	2017.63	-114.89	2020.90	0.00	526474.98	717284.04	
9800.00	90.23	356.74	7918.88	2117.47	-120.57	2120.90	0.00	526574.82	717278.36	
9900.00	90.23	356.74	7918.48	2217.30	-126.26	2220.89	0.00	526674.65	717272.67	
10000.00	90.23	356.74	7918.08	2317.14	-131.94	2320.89	0.00	526774.49	717266.99	
10100.00	90.23	356.74	7917.69	2416.98	-137.63	2420.89	0.00	526874.33	717261.30	
10200.00	90.23	356.74	7917.29	2516.82	-143.31	2520.89	0.00	526974.17	717255.62	
10300.00	90.23	356.74	7916.89	2616.65	-149.00	2620.89	0.00	527074.00	717249.93	
10400.00	90.23	356.74	7916.50	2716.49	-154.68	2720.89	0.00	527173.84	717244.25	
10500.00	90.23	356.74	7916.10	2816.33	-160.37	2820.89	0.00	527273.68	717238.56	
10600.00	90.23	356.74	7915.70	2916.17	-166.05	2920.89	0.00	527373.52	717232.88	
10700.00	90.23	356.74	7915.31	3016.00	-171.74	3020.89	0.00	527473.35	717227.19	
10800.00	90.23	356.74	7914.91	3115.84	-177.42	3120.89	0.00	527573.19	717221.51	
10900.00	90.23	356.74	7914.52	3215.68	-183.11	3220.89	0.00	527673.03	717215.82	
11000.00	90.23	356.74	7914.12	3315.52	-188.79	3320.89	0.00	527772.87	717210.14	
11100.00	90.23	356.74	7913.72	3415.35	-194.48	3420.89	0.00	527872.70	717204.45	
11200.00	90.23	356.74	7913.33	3515.19	-200.16	3520.88	0.00	527972.54	717198.77	
11300.00	90.23	356.74	7912.93	3615.03	-205.85	3620.88	0.00	528072.38	717193.08	
11400.00	90.23	356.74	7912.53	3714.87	-211.53	3720.88	0.00	528172.22	717187.40	
11500.00	90.23	356.74	7912.14	3814.70	-217.22	3820.88	0.00	528272.05	717181.71	
11600.00	90.23	356.74	7911.74	3914.54	-222.90	3920.88	0.00	528371.89	717176.03	
11700.00	90.23	356.74	7911.34	4014.38	-228.59	4020.88	0.00	528471.73	717170.34	
11800.00	90.23	356.74	7910.95	4114.22	-234.27	4120.88	0.00	528571.57	717164.66	
11900.00	90.23	356.74	7910.55	4214.05	-239.96	4220.88	0.00	528671.40	717158.97	
12000.00	90.23	356.74	7910.15	4313.89	-245.64	4320.88	0.00	528771.24	717153.29	
12100.00	90.23	356.74	7909.76	4413.73	-251.33	4420.88	0.00	528871.08	717147.60	
12200.00	90.23	356.74	7909.36	4513.57	-257.01	4520.88	0.00	528970.92	717141.92	
12300.00	90.23	356.74	7908.97	4613.40	-262.70	4620.88	0.00	529070.75	717136.23	
12400.00	90.23	356.74	7908.57	4713.24	-268.38	4720.88	0.00	529170.59	717130.55	
12500.00	90.23	356.74	7908.17	4813.08	-274.07	4820.87	0.00	529270.43	717124.86	
12600.00	90.23	356.74	7907.78	4912.92	-279.75	4920.87	0.00	529370.27	717119.18	
12700.00	90.23	356.74	7907.38	5012.75	-285.44	5020.87	0.00	529470.10	717113.49	
12800.00	90.23	356.74	7906.98	5112.59	-291.12	5120.87	0.00	529569.94	717107.81	
12900.00	90.23	356.74	7906.59	5212.43	-296.81	5220.87	0.00	529669.78	717102.12	
13000.00	90.23	356.74	7906.19	5312.27	-302.49	5320.87	0.00	529769.62	717096.44	
13100.00	90.23	356.74	7905.79	5412.10	-308.18	5420.87	0.00	529869.45	717090.75	
13200.00	90.23	356.74	7905.40	5511.94	-313.86	5520.87	0.00	529969.29	717085.07	
13300.00	90.23	356.74	7905.00	5611.78	-319.55	5620.87	0.00	530069.13	717079.38	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Devon Energy	Date: 3/20/2012	Time: 08.56 14	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: BA 27 State #1H, Grid North	
Site: Big Aristotle 27 State #1H	Vertical (TVD) Reference:	SITE 3513.0	
Well: BA 27 State #1H	Section (VS) Reference:	Well (0 00N,0 00E,356 74Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

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			7905 00	5612 13	-319.57	530069.48	717079.36	32 27 21.360 N	103 45 48.864 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7352.05	7352.05	KOP
8254.32	7925.00	LP
13300.35	7905.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: March 20, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Big Aristotle 27 State #1H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
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 524457.350 USFT	Latitude 32.4405056 DEG
East/West 717398.930 USFT	Longitude -103.7626300 DEG
Grid Convergence: .31°	
Total Correction: +7.23°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.44051° N	32° 26 min 25.820 sec
Longitude =	103.76263° W	103° 45 min 45.468 sec

Magnetic Declination =	7.54°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6514
Local Field Strength =	48622 nT	Magnetic Vector X = 23865 nT
Magnetic Dip =	60.32°	Magnetic Vector Y = 3158 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42245 nT
Spud Date =	Sep 15, 2012	Magnetic Vector H = 24073 nT

Signed: _____

Date: _____