

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Department 13
FEB 27 2013

INMOCD ARTESIA

District Office

☐ AMENDED REPORT

¹ API Number 30-015-41152	² Pool Code	³ Pool Name Wildcat; Bone Spring
⁴ Property Code 39749	⁵ Property Name DOC HOLLIDAY 32 STATE COM	
⁶ Well Number 4H		
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
	⁹ Elevation 3339.7	

GL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	24 S	27 E		150	NORTH	400	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	24 S	27 E		330	SOUTH	660	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

NW CORNER SEC. 32 LAT. = 32.1809310°N LONG. = 104.2211961°W NMSP EAST (FT) N = 429575.49 E = 576030.27 W.O. CORNER SEC. 32 COMPUTED SW CORNER SEC. 32 LAT. = 32.1663689°N LONG. = 104.2213071°W NMSP EAST (FT) N = 424278.05 E = 576001.44	N O CORNER SEC. 32 COMPUTED DOC HOLLIDAY 32 STATE COM #4H ELEV. = 3339.7' LAT. = 32.1805038°N (NAD83) LONG. = 104.2053512°W NMSP EAST (FT) N = 429425.55 E = 580932.53 BOTTOM OF HOLE LAT. = 32.1672984°N LONG. = 104.2062524°W NMSP EAST (FT) N = 424621.35 E = 580659.39 S O CORNER SEC. 32 LAT. = 32.1663845°N LONG. = 104.2127166°W NMSP EAST (FT) N = 424286.62 E = 578659.57
---	--

N90°00'00"W 2651.29 FT
 S00°18'42"W 2648.76 FT
 N00°09'20"E 2641.30 FT
 E00°00'00"W 2651.29 FT

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: _____ Date: **2-25-12**

Judith Barnett, Regulatory Specialist

Printed Name

Judith.Barnett@dnr.com

E-mail Address

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 28, 2012

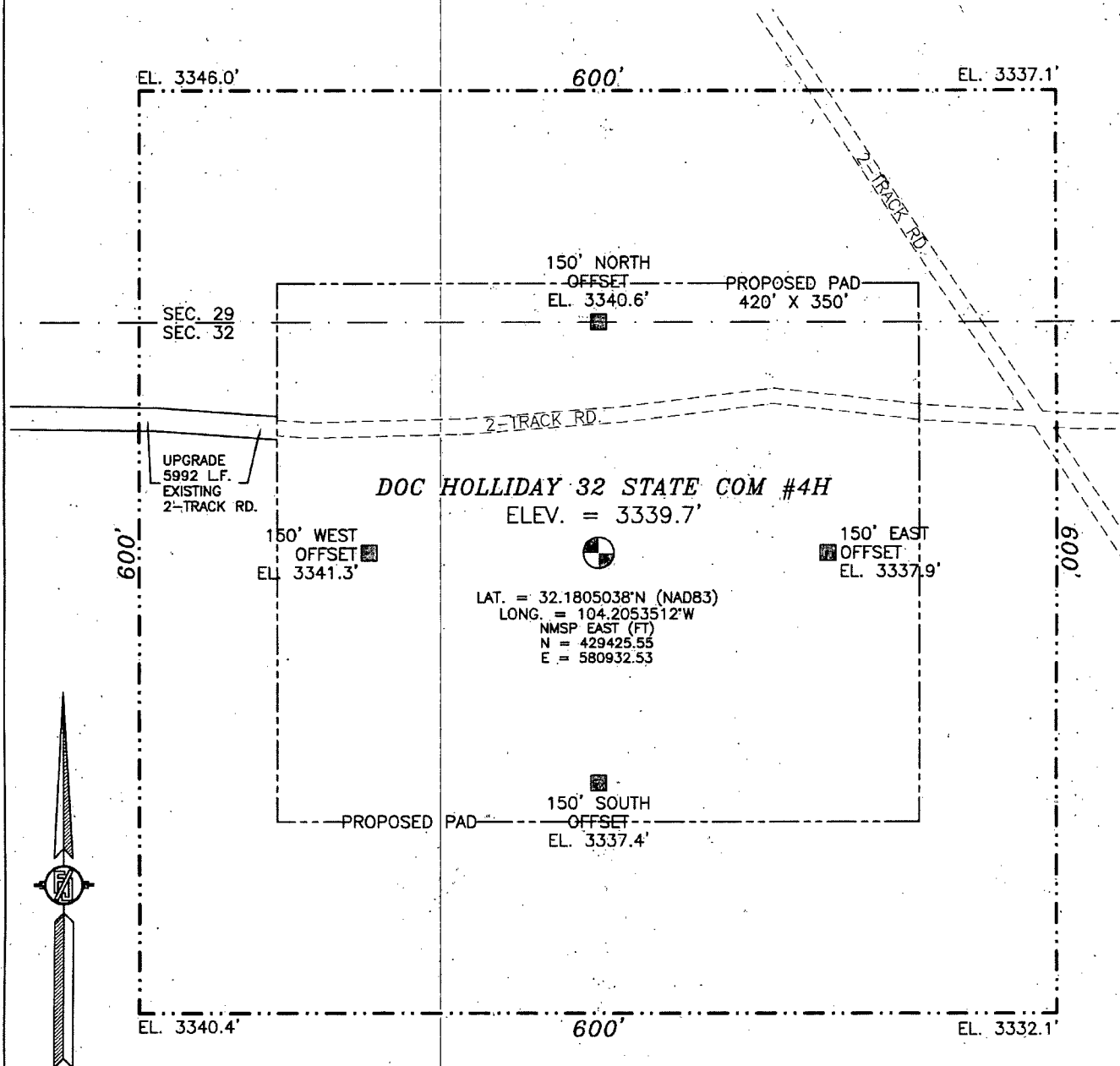
Date of Survey

Signature and Seal of Professional Surveyor: _____

Certificate Number: _____

FILLMORE, CALIFORNIA
JANUARY 1, 1991
SURVEY NO. 1460

SECTION 32, TOWNSHIP 24 SOUTH, RANGE 27 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 CO. RD. 720 (BLACK RIVER VILLAGE) &
CR. RD. 742 (JOHN D. FOREHAND) GO SOUTH ON 742 FOR APPROX.
3.6 MILES. GO EAST ON TWO TRACK ROAD APPROX. 1.1 MILES.
LOCATION IS APPROX. 100' SOUTH.

DEVON ENERGY PRODUCTION COMPANY, L.P.
DOC HOLLIDAY 32 STATE COM #4H
LOCATED 150 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 32, TOWNSHIP 24 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 28, 2012

SURVEY NO. 1460

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

301 SOUTH CANAL
(575) 234-3341

NOT TO SCALE

DECEMBER 28, 2012

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

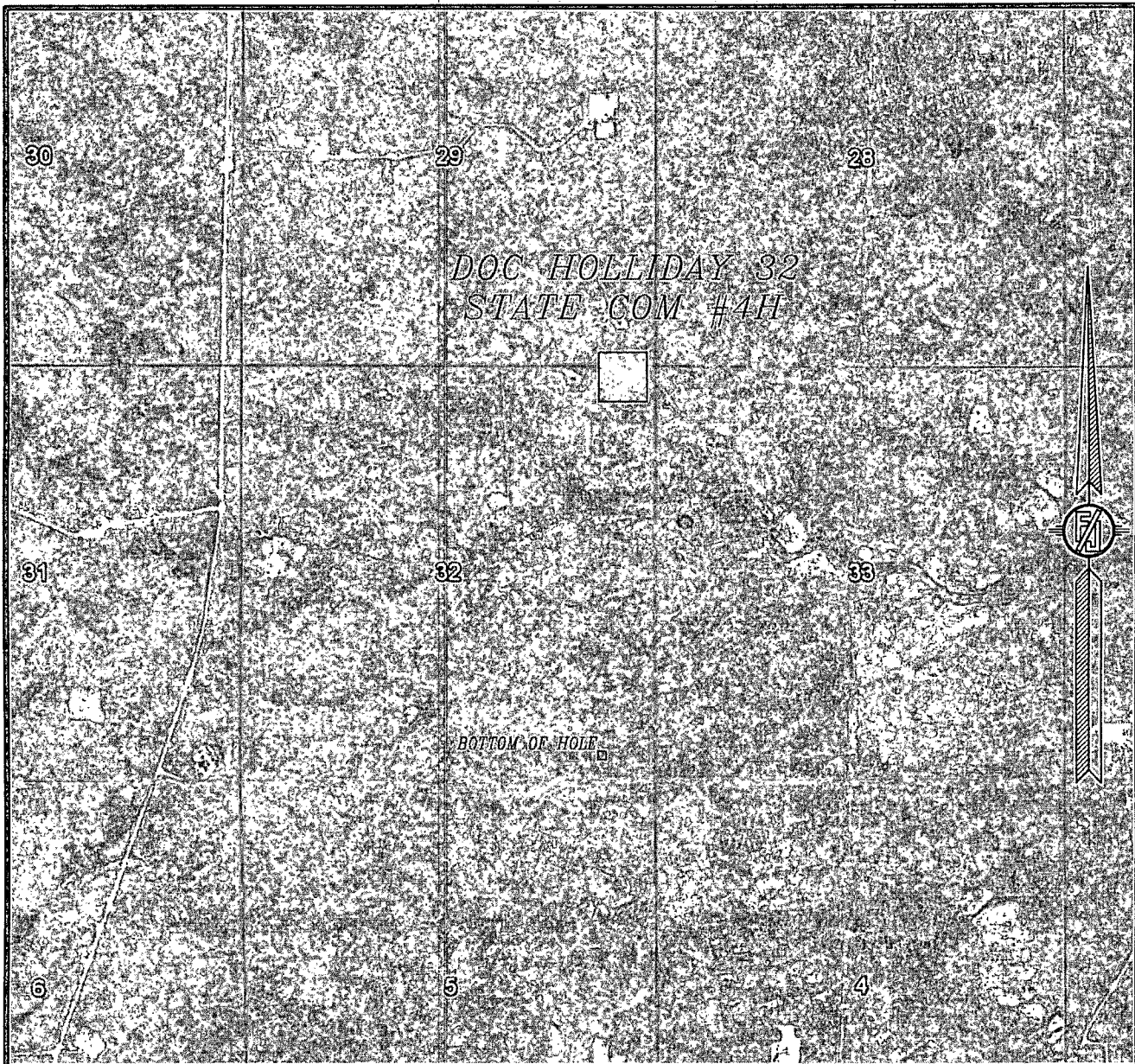
**DOC HOLLIDAY 32
STATE COM #4H**

DEVON ENERGY PRODUCTION COMPANY, L.P.
DOC HOLLIDAY 32 STATE COM #4H
LOCATED 150 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 32, TOWNSHIP 24 SOUTH,
RANGE 27 EAST, N.M.P.M..
EDDY COUNTY, STATE OF NEW MEXICO

SURVEY NO. 1460

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

SECTION 32, TOWNSHIP 24 SOUTH, RANGE 27 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.
DOC HOLLIDAY 32 STATE COM #4H
LOCATED 150 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 32, TOWNSHIP 24 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 28, 2012

SURVEY NO. 1460

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

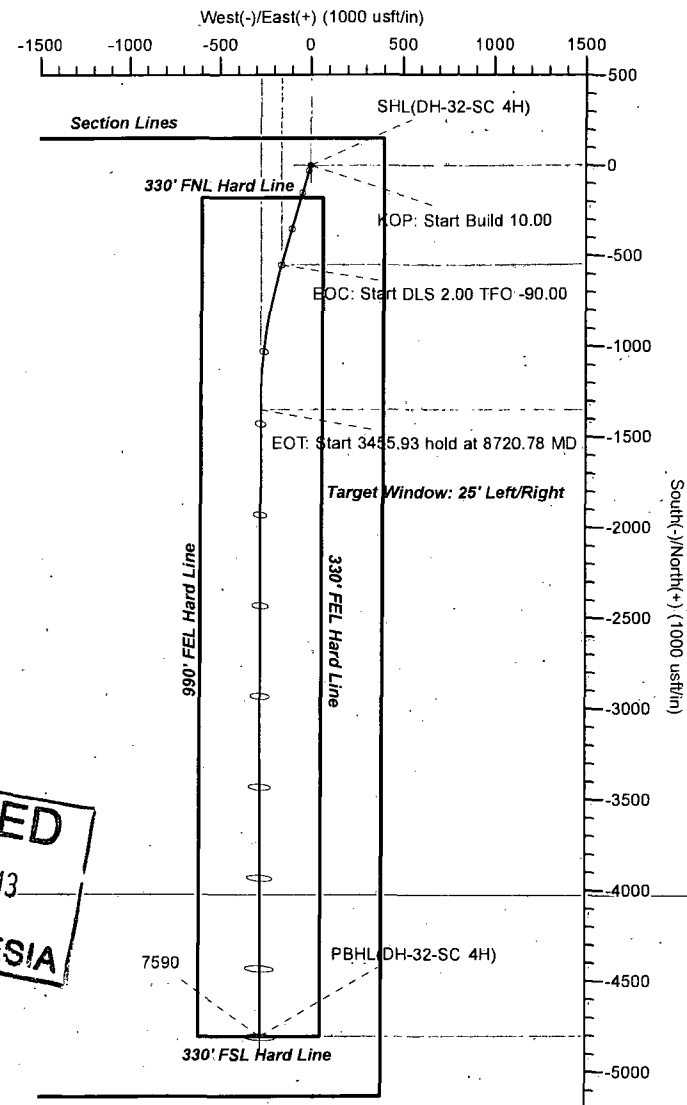
DEVON ENERGY

Project: Eddy County, NM (NAD-83)
 Site: Doc Holiday 32 State Com
 Well: 4H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.07°
 Magnetic North: 7.60°
 Magnetic Field
 Strength: 48351.3snT
 Dip Angle: 60.00°
 Date: 02/22/2013
 Model: IGRF2010

devon

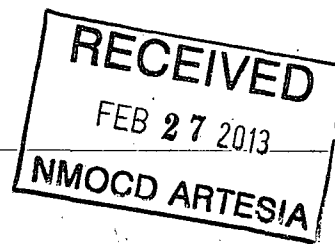
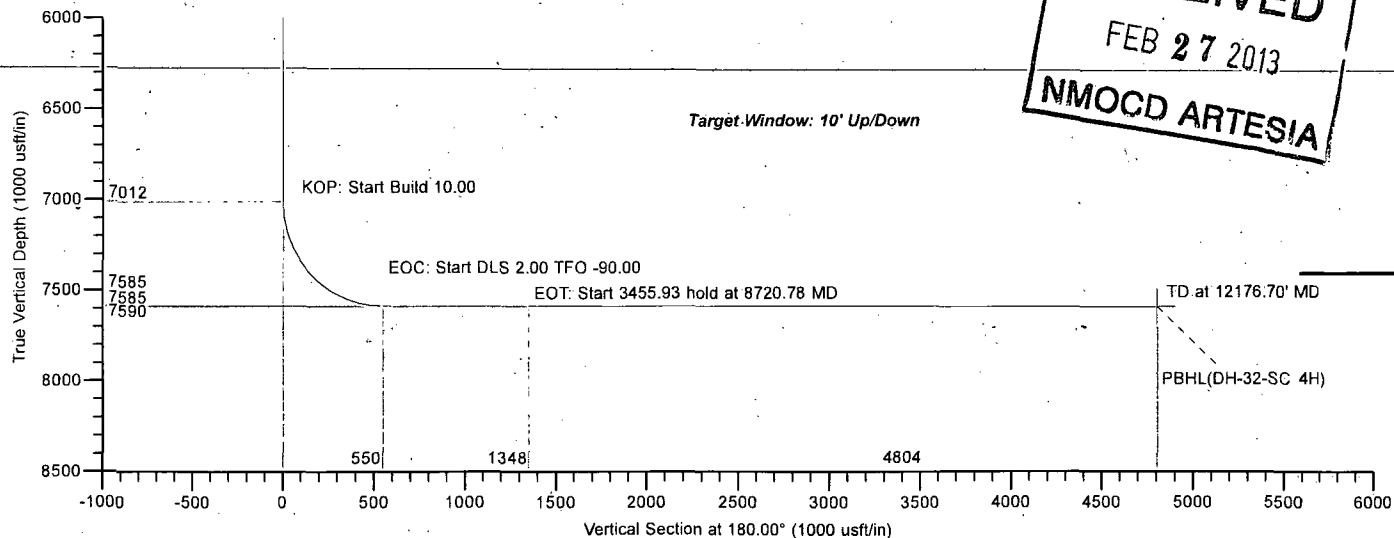


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(DH-32-SC 4H)	0.00	0.00	0.00	429425.55	580932.53	32° 10' 49.814 N	104° 12' 19.264 W
PBHL(DH-32-SC 4H)	7590.00	-4804.20	-273.14	424621.35	580659.39	32° 10' 2.274 N	104° 12' 22.509 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7012.04	0.00	0.00	7012.04	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 10.00
3	7911.34	89.93	196.19	7585.00	-549.57	-159.55	10.00	196.19	549.57	EOC: Start DLS 2.00 TFO -90.00
4	8720.78	89.93	180.00	7585.97	-1348.27	-273.14	2.00	-90.00	1348.27	EOT: Start 3455.93 hold at 8720.78 MD
5	12176.70	89.93	180.00	7590.00	-4804.20	-273.14	0.00	0.00	4804.20	TD at 12176.70' MD



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (4H/OH)
 Doc Holiday 32 State Com
 Created By: Tyler Carlson Date: 11:47, February 22 2013
 Date: _____
 Approved: _____ Date: _____

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User.Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3340' + KB.25' @ 3365.00usft (Permitting)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Site:	Doc Holiday 32 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Doc Holiday 32 State Com		
Site Position:		Northing:	429,425.45 usft
From:	Map	Easting:	576,359.25 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 49.864 N
		Longitude:	104° 13' 12.480 W
		Grid Convergence:	0.06 °

Well:	4H					
Well Position	+N/-S	0.10 usft	Northing:	429,425.55 usft	Latitude:	32° 10' 49.814 N
	+E/-W	4,573.28 usft	Easting:	580,932.53 usft	Longitude:	104° 12' 19.264 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,340.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/22/13	7.66	60.00	48,351

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	180.00

Plan Sections:										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,012.04	0.00	0.00	7,012.04	0.00	0.00	0.00	0.00	0.00	0.00	
7,911.34	89.93	196.19	7,585.00	-549.57	-159.55	10.00	10.00	0.00	196.19	
8,720.78	89.93	180.00	7,585.97	-1,348.27	-273.14	2.00	0.00	-2.00	-90.00	
12,176.70	89.93	180.00	7,590.00	-4,804.20	-273.14	0.00	0.00	0.00	0.00	PBHL(DH-32-SC 4H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Site:	Doc Holiday 32 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3340' + KB.25' @ 3365.00usft (Permitting)
Site:	Doc Holiday 32 State Com.	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,012.04	0.00	0.00	7,012.04	0.00	0.00	0.00	0.00	0.00	0.00	
KOP: Start Build 10.00										
7,050.00	3.80	196.19	7,049.97	-1.21	-0.35	1.21	10.00	10.00	0.00	
7,100.00	8.80	196.19	7,099.66	-6.47	-1.88	6.47	10.00	10.00	0.00	
7,150.00	13.80	196.19	7,148.67	-15.87	-4.61	15.87	10.00	10.00	0.00	
7,200.00	18.80	196.19	7,196.65	-29.34	-8.52	29.34	10.00	10.00	0.00	
7,250.00	23.80	196.19	7,243.22	-46.78	-13.58	46.78	10.00	10.00	0.00	
7,300.00	28.80	196.19	7,288.03	-68.04	-19.75	68.04	10.00	10.00	0.00	
7,350.00	33.80	196.19	7,330.74	-92.98	-26.99	92.98	10.00	10.00	0.00	
7,400.00	38.80	196.19	7,371.03	-121.39	-35.24	121.39	10.00	10.00	0.00	
7,450.00	43.80	196.19	7,408.58	-153.07	-44.44	153.07	10.00	10.00	0.00	
7,500.00	48.80	196.19	7,443.12	-187.77	-54.51	187.77	10.00	10.00	0.00	
7,550.00	53.80	196.19	7,474.37	-225.23	-65.39	225.23	10.00	10.00	0.00	
7,600.00	58.80	196.19	7,502.11	-265.17	-76.98	265.17	10.00	10.00	0.00	
7,650.00	63.80	196.19	7,526.11	-307.27	-89.20	307.27	10.00	10.00	0.00	
7,700.00	68.80	196.19	7,546.21	-351.22	-101.96	351.22	10.00	10.00	0.00	
7,750.00	73.80	196.19	7,562.24	-396.69	-115.16	396.69	10.00	10.00	0.00	
7,800.00	78.80	196.19	7,574.08	-443.32	-128.70	443.32	10.00	10.00	0.00	
7,850.00	83.80	196.19	7,581.64	-490.77	-142.48	490.77	10.00	10.00	0.00	
7,900.00	88.80	196.19	7,584.87	-538.68	-156.38	538.68	10.00	10.00	0.00	
7,911.34	89.93	196.19	7,585.00	-549.57	-159.55	549.57	10.00	10.00	0.00	
EOC: Start DLS 2.00 TFO -90.00										
8,000.00	89.93	194.42	7,585.11	-635.08	-182.94	635.08	2.00	0.00	-2.00	
8,100.00	89.93	192.42	7,585.23	-732.34	-206.14	732.34	2.00	0.00	-2.00	
8,200.00	89.93	190.42	7,585.35	-830.36	-225.93	830.36	2.00	0.00	-2.00	
8,300.00	89.93	188.42	7,585.47	-929.01	-242.29	929.01	2.00	0.00	-2.00	
8,400.00	89.93	186.42	7,585.59	-1,028.17	-255.20	1,028.17	2.00	0.00	-2.00	
8,500.00	89.93	184.42	7,585.71	-1,127.72	-264.64	1,127.72	2.00	0.00	-2.00	
8,600.00	89.93	182.42	7,585.83	-1,227.53	-270.59	1,227.53	2.00	0.00	-2.00	
8,700.00	89.93	180.42	7,585.95	-1,327.50	-273.06	1,327.50	2.00	0.00	-2.00	
8,720.78	89.93	180.00	7,585.97	-1,348.27	-273.14	1,348.27	2.00	0.00	-2.00	
EOT: Start 3455.93 hold at 8720.78 MD										

LEAM Drilling Systems LLC

Planning Report

Database:	EDM-5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Site:	Doc Holiday 32 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,800.00	89.93	180.00	7,586.06	-1,427.50	-273.14	1,427.50	0.00	0.00	0.00	
8,900.00	89.93	180.00	7,586.18	-1,527.50	-273.14	1,527.50	0.00	0.00	0.00	
9,000.00	89.93	180.00	7,586.30	-1,627.50	-273.14	1,627.50	0.00	0.00	0.00	
9,100.00	89.93	180.00	7,586.41	-1,727.50	-273.14	1,727.50	0.00	0.00	0.00	
9,200.00	89.93	180.00	7,586.53	-1,827.50	-273.14	1,827.50	0.00	0.00	0.00	
9,300.00	89.93	180.00	7,586.65	-1,927.50	-273.14	1,927.50	0.00	0.00	0.00	
9,400.00	89.93	180.00	7,586.76	-2,027.50	-273.14	2,027.50	0.00	0.00	0.00	
9,500.00	89.93	180.00	7,586.88	-2,127.50	-273.14	2,127.50	0.00	0.00	0.00	
9,600.00	89.93	180.00	7,587.00	-2,227.50	-273.14	2,227.50	0.00	0.00	0.00	
9,700.00	89.93	180.00	7,587.11	-2,327.50	-273.14	2,327.50	0.00	0.00	0.00	
9,800.00	89.93	180.00	7,587.23	-2,427.50	-273.14	2,427.50	0.00	0.00	0.00	
9,900.00	89.93	180.00	7,587.35	-2,527.50	-273.14	2,527.50	0.00	0.00	0.00	
10,000.00	89.93	180.00	7,587.46	-2,627.50	-273.14	2,627.50	0.00	0.00	0.00	
10,100.00	89.93	180.00	7,587.58	-2,727.50	-273.14	2,727.50	0.00	0.00	0.00	
10,200.00	89.93	180.00	7,587.70	-2,827.50	-273.14	2,827.50	0.00	0.00	0.00	
10,300.00	89.93	180.00	7,587.81	-2,927.50	-273.14	2,927.50	0.00	0.00	0.00	
10,400.00	89.93	180.00	7,587.93	-3,027.50	-273.14	3,027.50	0.00	0.00	0.00	
10,500.00	89.93	180.00	7,588.05	-3,127.50	-273.14	3,127.50	0.00	0.00	0.00	
10,600.00	89.93	180.00	7,588.16	-3,227.50	-273.14	3,227.50	0.00	0.00	0.00	
10,700.00	89.93	180.00	7,588.28	-3,327.50	-273.14	3,327.50	0.00	0.00	0.00	
10,800.00	89.93	180.00	7,588.40	-3,427.50	-273.14	3,427.50	0.00	0.00	0.00	
10,900.00	89.93	180.00	7,588.51	-3,527.50	-273.14	3,527.50	0.00	0.00	0.00	
11,000.00	89.93	180.00	7,588.63	-3,627.50	-273.14	3,627.50	0.00	0.00	0.00	
11,100.00	89.93	180.00	7,588.75	-3,727.50	-273.14	3,727.50	0.00	0.00	0.00	
11,200.00	89.93	180.00	7,588.86	-3,827.50	-273.14	3,827.50	0.00	0.00	0.00	
11,300.00	89.93	180.00	7,588.98	-3,927.50	-273.14	3,927.50	0.00	0.00	0.00	
11,400.00	89.93	180.00	7,589.09	-4,027.50	-273.14	4,027.50	0.00	0.00	0.00	
11,500.00	89.93	180.00	7,589.21	-4,127.50	-273.14	4,127.50	0.00	0.00	0.00	
11,600.00	89.93	180.00	7,589.33	-4,227.50	-273.14	4,227.50	0.00	0.00	0.00	
11,700.00	89.93	180.00	7,589.44	-4,327.50	-273.14	4,327.50	0.00	0.00	0.00	
11,800.00	89.93	180.00	7,589.56	-4,427.50	-273.14	4,427.50	0.00	0.00	0.00	
11,900.00	89.93	180.00	7,589.68	-4,527.50	-273.14	4,527.50	0.00	0.00	0.00	
12,000.00	89.93	180.00	7,589.79	-4,627.50	-273.14	4,627.50	0.00	0.00	0.00	
12,100.00	89.93	180.00	7,589.91	-4,727.50	-273.14	4,727.50	0.00	0.00	0.00	
12,176.70	89.93	180.00	7,590.00	-4,804.20	-273.14	4,804.20	0.00	0.00	0.00	
TD at 12176.70' MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL(DH-32-SC 4H) - hit/miss target - Shape	0.00	0.00	0.00	0.00	0.00	429,425.55	580,932.53	32° 10' 49.814 N	104° 12' 19.264 W	
PBHL(DH-32-SC 4H) - plan hits target center - Point	0.00	0.00	7,590.00	-4,804.20	-273.14	424,621.35	580,659.39	32° 10' 2.274 N	104° 12' 22.509 W	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3340' + KB 25' @ 3365.00usft (Permitting)
Site:	Doc Holiday 32 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,012.04	7,012.04	0.00	0.00	KOP: Start Build 10.00
7,911.34	7,585.00	-549.57	-159.55	EOC: Start DLS 2.00 TFO -90.00
8,720.78	7,585.97	-1,348.27	-273.14	EOT: Start 3455.93 hold at 8720.78 MD
12,176.70	7,590.00	-4,804.20	-273.14	TD at 12176.70' MD