

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41996	² Pool Code 96437	³ Pool Name Happy Valley, Bone Spring
⁴ Property Code 40354	⁵ Property Name WC B 6-04 S232628M; BS	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
		⁹ Elevation 3383.5

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
M	28	23 S	26 E		175	SOUTH	660	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

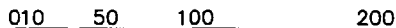
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	23 S	26 E		330	NORTH	660	WEST	EDDY

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

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.

N89°48'56"E 2667.85 FT 660' 330' BOTTOM OF HOLE NW CORNER SEC. 28 LAT. = 32.2823928°N LONG. = 104.3069050°W NMSP EAST (FT) N = 466468.32 E = 549504.75 W/4 CORNER SEC. 28 LAT. = 32.2751270°N LONG. = 104.3068945°W NMSP EAST (FT) N = 463825.13 E = 549508.66 SW CORNER SEC. 28 LAT. = 32.2678899°N LONG. = 104.3068859°W NMSP EAST (FT) N = 461192.40 E = 549511.96 175' SURFACE LOCATION N89°46'26"W 2662.19 FT		N89°49'12"E 2667.22 FT N/4 CORNER SEC. 28 LAT. = 32.2824143°N LONG. = 104.2982744°W NMSP EAST (FT) N = 466476.90 E = 552171.91 NE CORNER SEC. 28 LAT. = 32.2824346°N LONG. = 104.2896457°W NMSP EAST (FT) N = 466485.28 E = 554838.46 E/4 CORNER SEC. 28 LAT. = 32.2751882°N LONG. = 104.2896523°W NMSP EAST (FT) N = 463849.13 E = 554837.52 SE CORNER SEC. 28 COMPUTED 300°01'14"W 2636.81 FT	
NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. CLETUS 28 STATE COM 1H ELEV. = 3383.5' LAT. = 32.2683776°N (NAD83) LONG. = 104.3047516°W NMSP EAST (FT) N = 461369.97 E = 550171.60		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 enacted by the division. <i>[Signature]</i> Date: 1/23/2014 Ryan DeLong - Regulatory Coordinator Printed Name ryan.delong@dmv.com E-mail Address 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. NOVEMBER 13, 2013 Date of Survey 12797 <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: P. J. MONTEFARMELO, PLS 12797 SURVEY NO. 2312A	

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.



SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM MILE MARKER 25 LYING 0.48 MILES NORTH OF THE
INTERSECTION OF NATIONAL PARKS HWY AND CR 771 (SKINNER ROAD)
GO SOUTH 0.71 MILES TO TURNOUT ON RIGHT TO DEVON "FH" WELLS
GO 0.12 MILES TO 2-TRACK ON LEFT GO SOUTH ALONG 2 TRACK
ROAD 0.93 MILES TO SE. CORNER OF PAD

DEVON ENERGY PRODUCTION COMPANY, L.P.
CLETUS 28 STATE COM 1H
LOCATED 175 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 13, 2013

SURVEY NO. 2312A

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

CARLSBAD, NEW MEXICO

28, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
CLETUS 28 STATE COM 1H

LOCATED 175 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

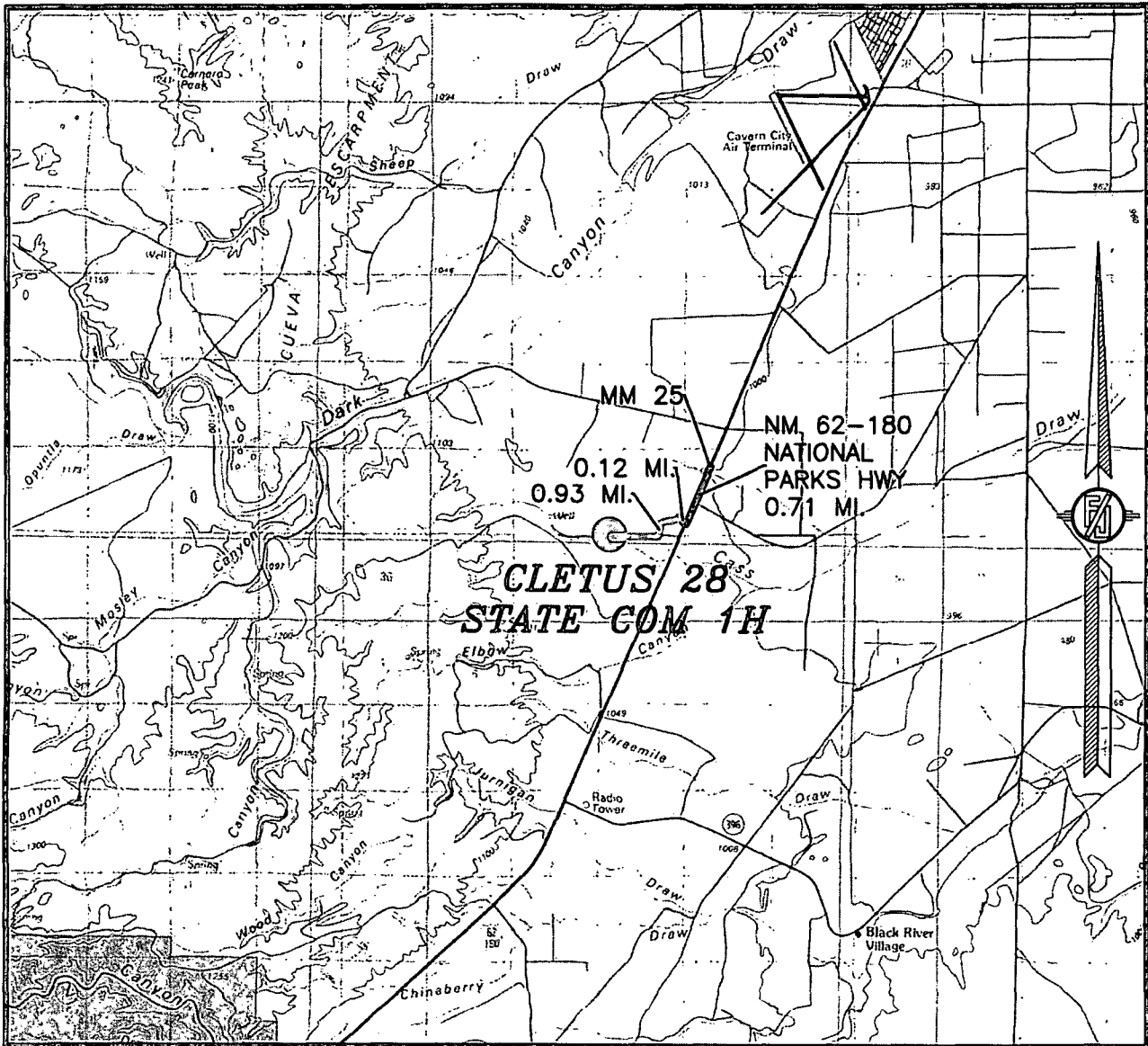
NOVEMBER 13, 2013

SURVEY NO. 2312A

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

301 SOUTH CANAL
(575) 234-3341

SECTION 28, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DIRECTIONS TO LOCATION

FROM MILE MARKER 25 LYING 0.46 MILES NORTH OF THE
INTERSECTION OF NATIONAL PARKS HWY AND CR 771 (SKINNER ROAD)
GO SOUTH 0.71 MILES TO TURNOUT ON RIGHT TO DEVON "FH" WELLS
GO 0.12 MILES TO 2-TRACK ON LEFT GO SOUTH ALONG 2 TRACK
ROAD 0.93 MILES TO SE. CORNER OF PAD

DEVON ENERGY PRODUCTION COMPANY, L.P.

CLETUS 28 STATE COM 1H

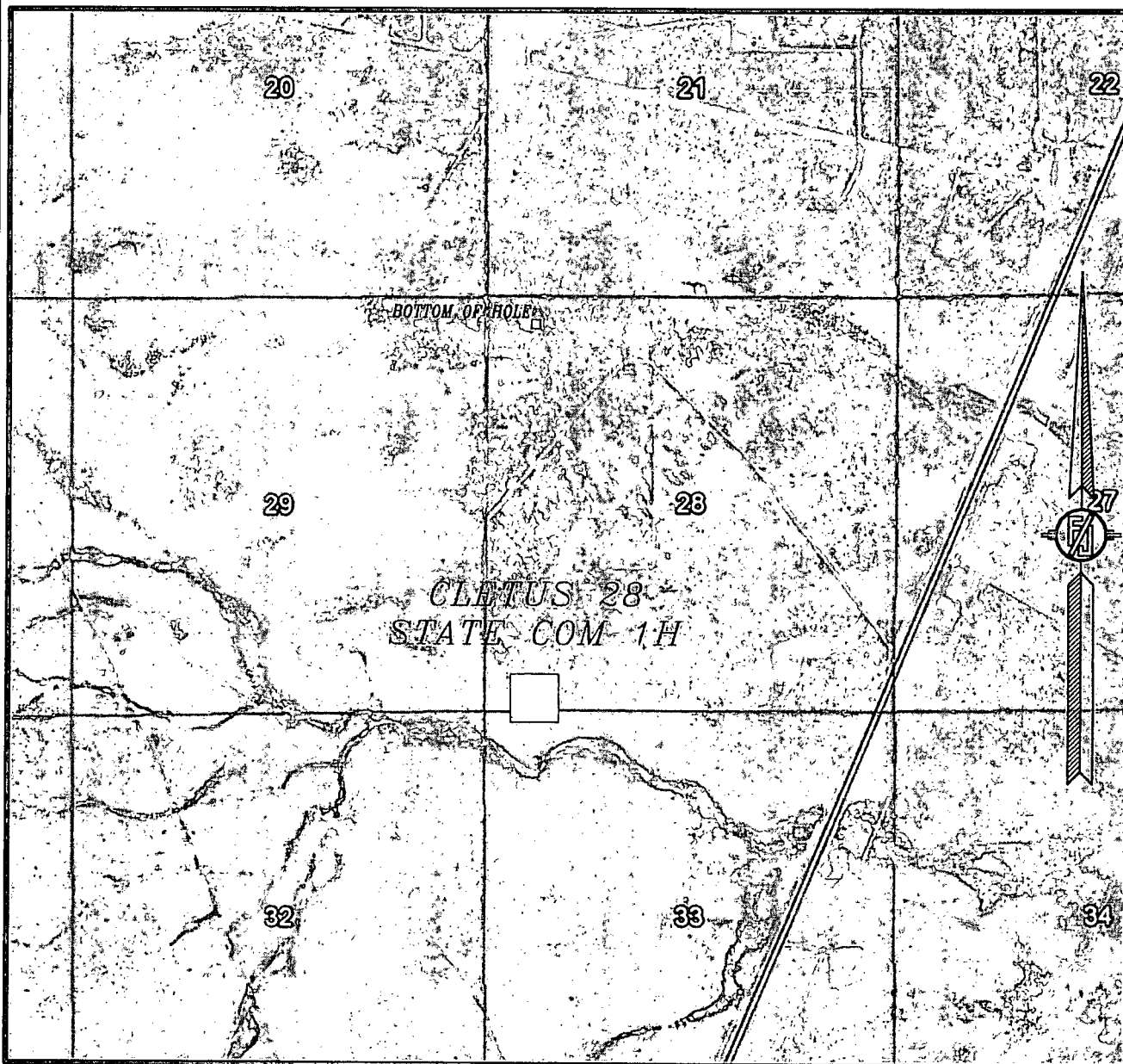
LOCATED 175 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 13, 2013

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

SURVEY NO. 2312A
CARLSBAD, NEW MEXICO

SECTION 28, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
CLETUS 28 STATE COM 1H

LOCATED 175 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 13, 2013

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

SURVEY NO. 2312A

CARLSBAD, NEW MEXICO

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Cletus State
Well: 1H
Wellbore: OH
Design: Plan #1 Draft1



Azimuths to Grid North
True North: -0.01°
Magnetic North: 7.74°

Magnetic Field
Strength: 48305.2snT
Dip Angle: 60.03°
Date: 10/16/2013
Model: BGGM2013

devon



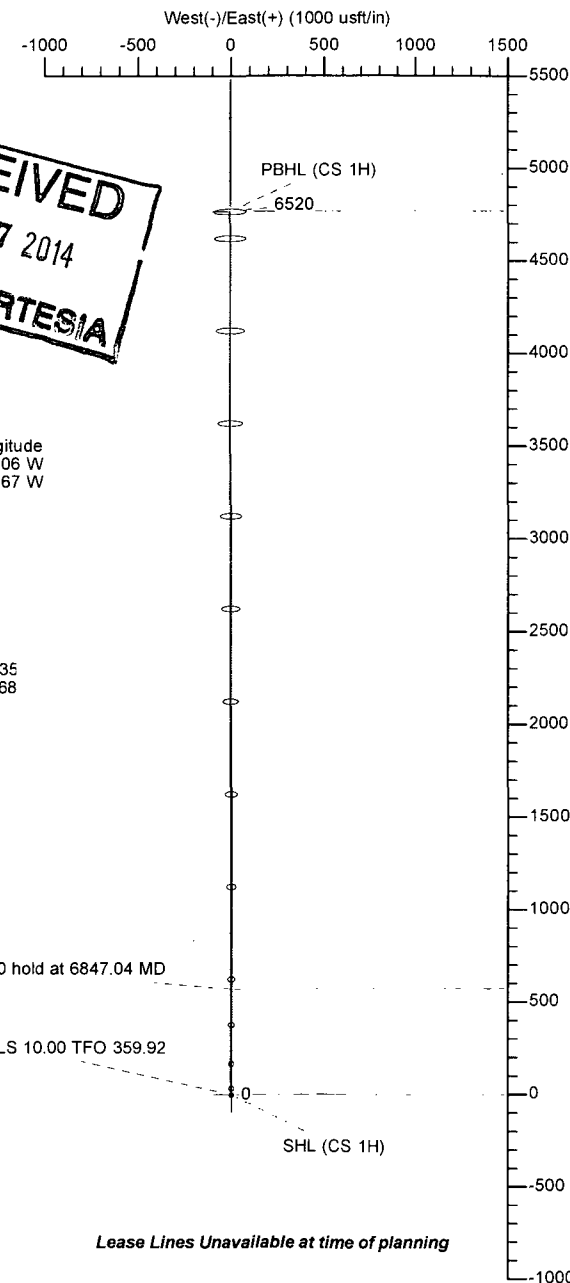
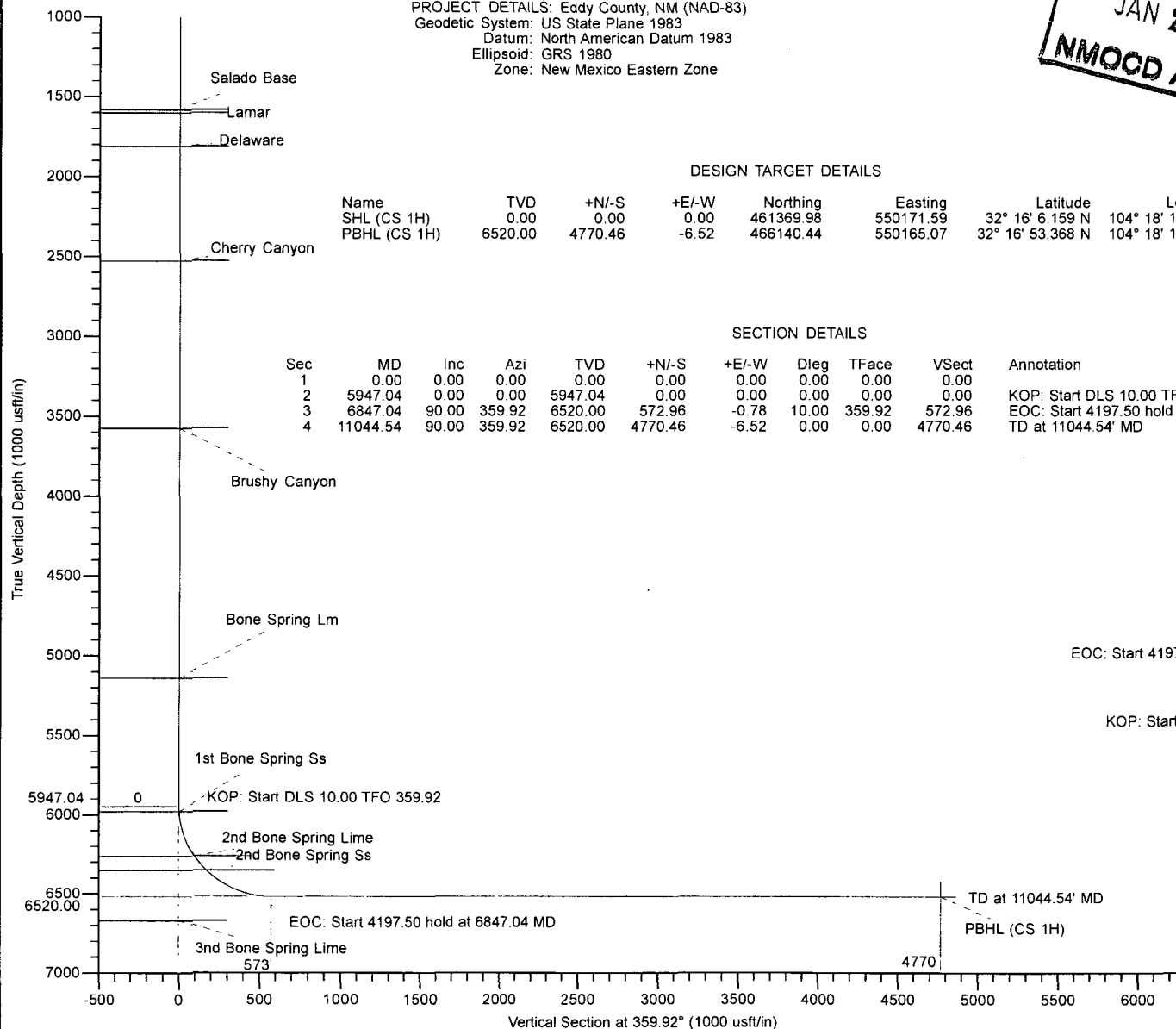
PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (CS 1H)	0.00	0.00	0.00	461369.98	550171.59	32° 16' 6.159 N	104° 18' 17.106 W
PBHL (CS 1H)	6520.00	4770.46	-6.52	466140.44	550165.07	32° 16' 53.368 N	104° 18' 17.167 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5947.04	0.00	0.00	5947.04	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 10.00 TFO 35
3	6847.04	90.00	359.92	6520.00	572.96	-0.78	10.00	359.92	572.96	EOC: Start 4197.50 hold at 68
4	11044.54	90.00	359.92	6520.00	4770.46	-6.52	0.00	0.00	4770.46	TD at 11044.54' MD



Lease Lines Unavailable at time of planning



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

Plan: Plan #1 Draft1 (1H/OH)
Cletus State
Created By: Heber Claros
Date: 14:55, October 16 2013
Approved: _____
Date: _____

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Cletus State
Well: 1H
Wellbore: OH
Design: Plan #1 Draft1

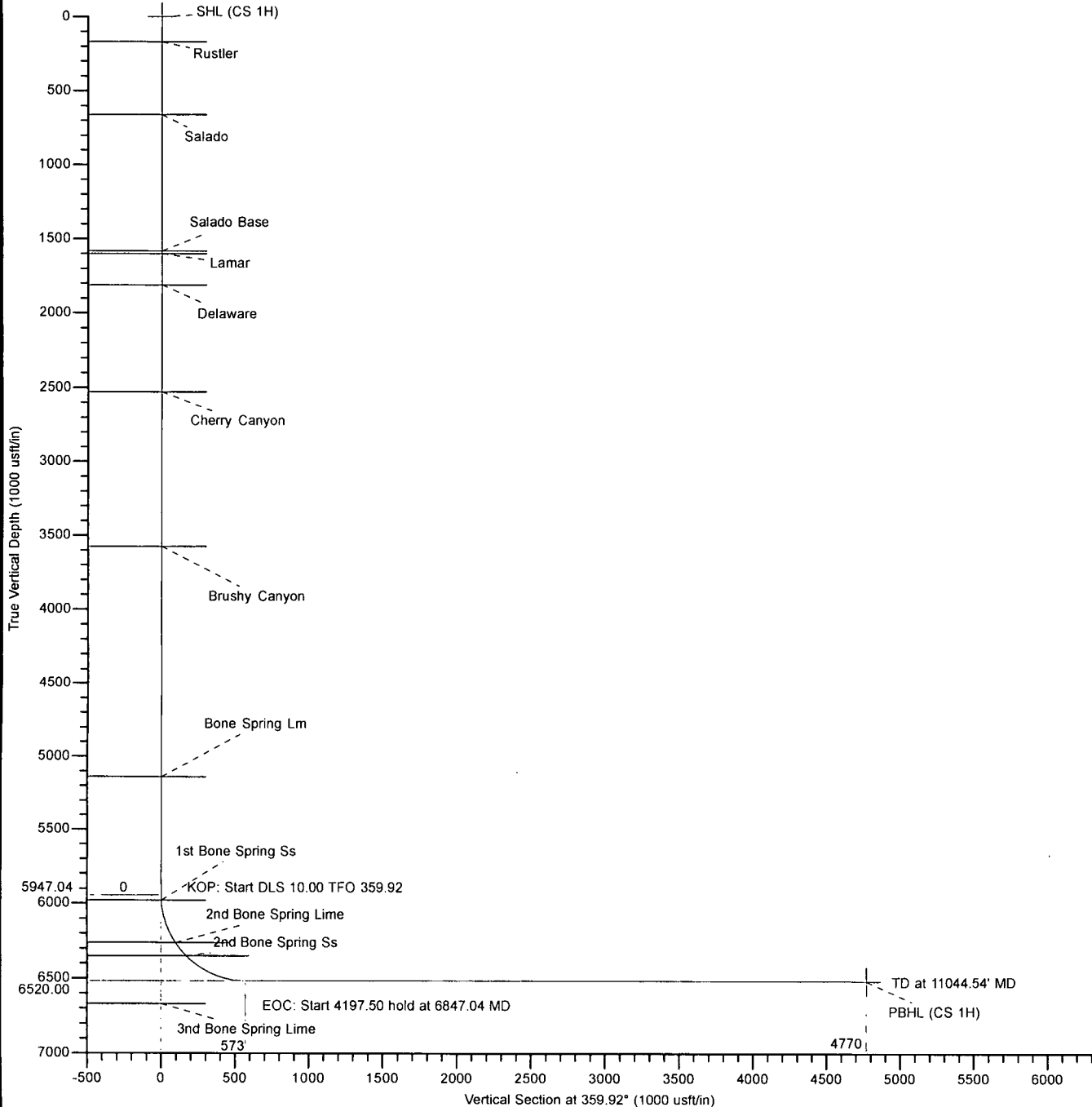


Azimuths to Grid North
True North: -0.01°
Magnetic North: 7.74°

Magnetic Field
Strength: 48305.2snT
Dip Angle: 60.03°
Date: 10/16/2013
Model: BGGM2013

devon

PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone



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

Plan: Plan #1 Draft1 (1H/OH)
Cletus State
Created By: Heber Claros
Date: 15:02, October 16 2013
Approved: _____
Date: _____

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Site:	Cletus State	MD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft1	Database:	EDM 5000.1 Single User Db

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		Cletus State			
Site Position:		Northing:	461,369.98 usft	Latitude:	32° 16' 6.159 N
From:	Lat/Long	Easting:	550,171.59 usft	Longitude:	104° 18' 17.106 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.02 °

Well	1H					
Well Position	+N/-S	0.00 usft	Northing:	461,369.98 usft	Latitude:	32° 16' 6.159 N
	+E/-W	0.00 usft	Easting:	550,171.59 usft	Longitude:	104° 18' 17.106 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,384.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	10/16/13	7.75	60.03	48,305

Design:	Plan #1 Draft1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.92	

Survey Tool Program	Date 10/16/13				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,044.50	Plan #1 Draft1 (OH)	LEAM MWD-ADJ	MWD - Standard	

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)	
5,947.04	0.00	0.00	5,947.04	0.00	0.00	0.00	0.00	0.00	0.00	
KOP: Start DLS 10.00 TFO 359.92										
5,950.00	0.30	359.92	5,950.00	0.01	0.00	0.01	10.00	10.00	0.00	
5,981.02	3.40	359.92	5,981.00	1.01	0.00	1.01	10.00	10.00	0.00	
1st Bone Spring Ss										
6,000.00	5.30	359.92	5,999.92	2.45	0.00	2.45	10.00	10.00	0.00	
6,050.00	10.30	359.92	6,049.45	9.23	-0.01	9.23	10.00	10.00	0.00	
6,100.00	15.30	359.92	6,098.19	20.30	-0.03	20.30	10.00	10.00	0.00	
6,150.00	20.30	359.92	6,145.78	35.57	-0.05	35.57	10.00	10.00	0.00	
6,200.00	25.30	359.92	6,191.86	54.94	-0.08	54.94	10.00	10.00	0.00	

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Site:	Cletus State	MD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft1	Database:	EDM 5000.1 Single User Db

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)
6,250.00	30.30	359.92	6,236.08	78.25	-0.11	78.25	10.00	10.00	0.00
6,282.91	33.59	359.92	6,264.00	95.66	-0.13	95.66	10.00	10.00	0.00
2nd Bone Spring Lime									
6,300.00	35.30	359.92	6,278.10	105.32	-0.14	105.32	10.00	10.00	0.00
6,350.00	40.30	359.92	6,317.59	135.96	-0.19	135.96	10.00	10.00	0.00
6,398.20	45.12	359.92	6,353.00	168.63	-0.23	168.63	10.00	10.00	0.00
2nd Bone Spring Ss									
6,400.00	45.30	359.92	6,354.27	169.91	-0.23	169.91	10.00	10.00	0.00
6,450.00	50.30	359.92	6,387.85	206.94	-0.28	206.94	10.00	10.00	0.00
6,500.00	55.30	359.92	6,418.07	246.75	-0.34	246.75	10.00	10.00	0.00
6,550.00	60.30	359.92	6,444.71	289.05	-0.40	289.05	10.00	10.00	0.00
6,600.00	65.30	359.92	6,467.56	333.50	-0.46	333.50	10.00	10.00	0.00
6,650.00	70.30	359.92	6,486.45	379.78	-0.52	379.78	10.00	10.00	0.00
6,700.00	75.30	359.92	6,501.23	427.53	-0.58	427.53	10.00	10.00	0.00
6,750.00	80.30	359.92	6,511.80	476.38	-0.65	476.38	10.00	10.00	0.00
6,800.00	85.30	359.92	6,518.07	525.97	-0.72	525.97	10.00	10.00	0.00
6,847.04	90.00	359.92	6,520.00	572.96	-0.78	572.96	10.00	10.00	0.00
EOC: Start 4197.50 hold at 6847.04 MD									
6,900.00	90.00	359.92	6,520.00	625.92	-0.86	625.92	0.00	0.00	0.00
7,000.00	90.00	359.92	6,520.00	725.92	-0.99	725.92	0.00	0.00	0.00
7,100.00	90.00	359.92	6,520.00	825.92	-1.13	825.92	0.00	0.00	0.00
7,200.00	90.00	359.92	6,520.00	925.92	-1.27	925.92	0.00	0.00	0.00
7,300.00	90.00	359.92	6,520.00	1,025.92	-1.40	1,025.92	0.00	0.00	0.00
7,400.00	90.00	359.92	6,520.00	1,125.92	-1.54	1,125.92	0.00	0.00	0.00
7,500.00	90.00	359.92	6,520.00	1,225.92	-1.68	1,225.92	0.00	0.00	0.00
7,600.00	90.00	359.92	6,520.00	1,325.92	-1.81	1,325.92	0.00	0.00	0.00
7,700.00	90.00	359.92	6,520.00	1,425.92	-1.95	1,425.92	0.00	0.00	0.00
7,800.00	90.00	359.92	6,520.00	1,525.92	-2.09	1,525.92	0.00	0.00	0.00
7,900.00	90.00	359.92	6,520.00	1,625.92	-2.22	1,625.92	0.00	0.00	0.00
8,000.00	90.00	359.92	6,520.00	1,725.92	-2.36	1,725.92	0.00	0.00	0.00
8,100.00	90.00	359.92	6,520.00	1,825.92	-2.50	1,825.92	0.00	0.00	0.00
8,200.00	90.00	359.92	6,520.00	1,925.92	-2.63	1,925.92	0.00	0.00	0.00
8,300.00	90.00	359.92	6,520.00	2,025.92	-2.77	2,025.92	0.00	0.00	0.00
8,400.00	90.00	359.92	6,520.00	2,125.92	-2.91	2,125.92	0.00	0.00	0.00
8,500.00	90.00	359.92	6,520.00	2,225.92	-3.04	2,225.92	0.00	0.00	0.00
8,600.00	90.00	359.92	6,520.00	2,325.92	-3.18	2,325.92	0.00	0.00	0.00
8,700.00	90.00	359.92	6,520.00	2,425.92	-3.32	2,425.92	0.00	0.00	0.00
8,800.00	90.00	359.92	6,520.00	2,525.92	-3.45	2,525.92	0.00	0.00	0.00
8,900.00	90.00	359.92	6,520.00	2,625.92	-3.59	2,625.92	0.00	0.00	0.00
9,000.00	90.00	359.92	6,520.00	2,725.92	-3.73	2,725.92	0.00	0.00	0.00
9,100.00	90.00	359.92	6,520.00	2,825.92	-3.87	2,825.92	0.00	0.00	0.00
9,200.00	90.00	359.92	6,520.00	2,925.92	-4.00	2,925.92	0.00	0.00	0.00
9,300.00	90.00	359.92	6,520.00	3,025.92	-4.14	3,025.92	0.00	0.00	0.00
9,400.00	90.00	359.92	6,520.00	3,125.91	-4.28	3,125.92	0.00	0.00	0.00

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Site:	Cletus State	MD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft1	Database:	EDM 5000.1 Single User Db

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)
9,500.00	90.00	359.92	6,520.00	3,225.91	-4.41	3,225.92	0.00	0.00	0.00
9,600.00	90.00	359.92	6,520.00	3,325.91	-4.55	3,325.92	0.00	0.00	0.00
9,700.00	90.00	359.92	6,520.00	3,425.91	-4.69	3,425.92	0.00	0.00	0.00
9,800.00	90.00	359.92	6,520.00	3,525.91	-4.82	3,525.92	0.00	0.00	0.00
9,900.00	90.00	359.92	6,520.00	3,625.91	-4.96	3,625.92	0.00	0.00	0.00
10,000.00	90.00	359.92	6,520.00	3,725.91	-5.10	3,725.92	0.00	0.00	0.00
10,100.00	90.00	359.92	6,520.00	3,825.91	-5.23	3,825.92	0.00	0.00	0.00
10,200.00	90.00	359.92	6,520.00	3,925.91	-5.37	3,925.92	0.00	0.00	0.00
10,300.00	90.00	359.92	6,520.00	4,025.91	-5.51	4,025.92	0.00	0.00	0.00
10,400.00	90.00	359.92	6,520.00	4,125.91	-5.64	4,125.92	0.00	0.00	0.00
10,500.00	90.00	359.92	6,520.00	4,225.91	-5.78	4,225.92	0.00	0.00	0.00
10,600.00	90.00	359.92	6,520.00	4,325.91	-5.92	4,325.92	0.00	0.00	0.00
10,700.00	90.00	359.92	6,520.00	4,425.91	-6.05	4,425.92	0.00	0.00	0.00
10,800.00	90.00	359.92	6,520.00	4,525.91	-6.19	4,525.92	0.00	0.00	0.00
10,900.00	90.00	359.92	6,520.00	4,625.91	-6.33	4,625.92	0.00	0.00	0.00
11,000.00	90.00	359.92	6,520.00	4,725.91	-6.46	4,725.92	0.00	0.00	0.00
11,044.54	90.00	359.92	6,520.00	4,770.46	-6.52	4,770.46	0.00	0.00	0.00
TD at 11044.54' MD - PBHL (CS 1H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (CS 1H)	0.00	0.00	0.00	0.00	0.00	461,369.98	550,171.59	32° 16' 6.159 N	104° 18' 17.106 W
- hit/miss target									
- Shape									
- plan misses target center by 5947.04usft at 5947.04usft MD (5947.04 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL (CS 1H)	0.00	0.00	6,520.00	4,770.46	-6.52	466,140.44	550,165.07	32° 16' 53.368 N	104° 18' 17.167 W
- plan hits target center									
- Point									

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Site:	Cletus State	MD Reference:	GE 3384' + KB 25' @ 3409.00usft (Cactus 126)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft1	Database:	EDM 5000.1 Single User Db

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
170.00	170.00	Rustler		0.01		
661.00	661.00	Salado		0.01		
1,583.00	1,583.00	Salado Base		0.01		
1,602.00	1,602.00	Lamar		0.01		
1,812.00	1,812.00	Delaware		0.01		
2,529.00	2,529.00	Cherry Canyon		0.01		
3,576.00	3,576.00	Brushy Canyon		0.01		
5,140.00	5,140.00	Bone Spring Lm		0.01		
5,981.02	5,981.00	1st Bone Spring Ss		0.01		
6,282.91	6,264.00	2nd Bone Spring Lime		0.01		
6,398.20	6,353.00	2nd Bone Spring Ss		0.01		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5947	5947	0	0	KOP: Start DLS 10.00 TFO 359.92
6847	6520	573	-1	EOC: Start 4197.50 hold at 6847.04 MD
11,045	6520	4770	-7	TD at 11044.54' MD

Checked By: _____	Approved By: _____	Date: _____
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MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN
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
200.00	0.00	0.00	200.00	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
400.00	0.00	0.00	400.00	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
600.00	0.00	0.00	600.00	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
800.00	0.00	0.00	800.00	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
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00

4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00
5947.04	0.00	0.00	5947.04	0.00	0.00	0.00	0.00	0.00
5950.00	0.30	359.92	5950.00	0.01	0.00	10.00	10.00	0.00
6000.00	5.30	359.92	5999.92	2.45	0.00	10.00	10.00	0.00
6050.00	10.30	359.92	6049.45	9.23	-0.01	10.00	10.00	0.00
6100.00	15.30	359.92	6098.19	20.30	-0.03	10.00	10.00	0.00
6150.00	20.30	359.92	6145.78	35.57	-0.05	10.00	10.00	0.00
6200.00	25.30	359.92	6191.86	54.94	-0.08	10.00	10.00	0.00
6250.00	30.30	359.92	6236.08	78.25	-0.11	10.00	10.00	0.00
6300.00	35.30	359.92	6278.10	105.32	-0.14	10.00	10.00	0.00
6350.00	40.30	359.92	6317.59	135.96	-0.19	10.00	10.00	0.00
6400.00	45.30	359.92	6354.27	169.91	-0.23	10.00	10.00	0.00
6450.00	50.30	359.92	6387.85	206.94	-0.28	10.00	10.00	0.00
6500.00	55.30	359.92	6418.07	246.75	-0.34	10.00	10.00	0.00
6550.00	60.30	359.92	6444.71	289.05	-0.40	10.00	10.00	0.00
6600.00	65.30	359.92	6467.56	333.50	-0.46	10.00	10.00	0.00
6650.00	70.30	359.92	6486.45	379.78	-0.52	10.00	10.00	0.00
6700.00	75.30	359.92	6501.23	427.53	-0.58	10.00	10.00	0.00
6750.00	80.30	359.92	6511.80	476.38	-0.65	10.00	10.00	0.00
6800.00	85.30	359.92	6518.07	525.97	-0.72	10.00	10.00	0.00
6847.04	90.00	359.92	6520.00	572.96	-0.78	10.00	10.00	0.00
6900.00	90.00	359.92	6520.00	625.92	-0.86	0.00	0.00	0.00
7000.00	90.00	359.92	6520.00	725.92	-0.99	0.00	0.00	0.00
7100.00	90.00	359.92	6520.00	825.92	-1.13	0.00	0.00	0.00
7200.00	90.00	359.92	6520.00	925.92	-1.27	0.00	0.00	0.00
7300.00	90.00	359.92	6520.00	1025.92	-1.40	0.00	0.00	0.00
7400.00	90.00	359.92	6520.00	1125.92	-1.54	0.00	0.00	0.00
7500.00	90.00	359.92	6520.00	1225.92	-1.68	0.00	0.00	0.00
7600.00	90.00	359.92	6520.00	1325.92	-1.81	0.00	0.00	0.00
7700.00	90.00	359.92	6520.00	1425.92	-1.95	0.00	0.00	0.00
7800.00	90.00	359.92	6520.00	1525.92	-2.09	0.00	0.00	0.00
7900.00	90.00	359.92	6520.00	1625.92	-2.22	0.00	0.00	0.00
8000.00	90.00	359.92	6520.00	1725.92	-2.36	0.00	0.00	0.00
8100.00	90.00	359.92	6520.00	1825.92	-2.50	0.00	0.00	0.00

8200.00	90.00	359.92	6520.00	1925.92	-2.63	0.00	0.00	0.00
8300.00	90.00	359.92	6520.00	2025.92	-2.77	0.00	0.00	0.00
8400.00	90.00	359.92	6520.00	2125.92	-2.91	0.00	0.00	0.00
8500.00	90.00	359.92	6520.00	2225.92	-3.04	0.00	0.00	0.00
8600.00	90.00	359.92	6520.00	2325.92	-3.18	0.00	0.00	0.00
8700.00	90.00	359.92	6520.00	2425.92	-3.32	0.00	0.00	0.00
8800.00	90.00	359.92	6520.00	2525.92	-3.45	0.00	0.00	0.00
8900.00	90.00	359.92	6520.00	2625.92	-3.59	0.00	0.00	0.00
9000.00	90.00	359.92	6520.00	2725.92	-3.73	0.00	0.00	0.00
9100.00	90.00	359.92	6520.00	2825.92	-3.87	0.00	0.00	0.00
9200.00	90.00	359.92	6520.00	2925.92	-4.00	0.00	0.00	0.00
9300.00	90.00	359.92	6520.00	3025.91	-4.14	0.00	0.00	0.00
9400.00	90.00	359.92	6520.00	3125.91	-4.28	0.00	0.00	0.00
9500.00	90.00	359.92	6520.00	3225.91	-4.41	0.00	0.00	0.00
9600.00	90.00	359.92	6520.00	3325.91	-4.55	0.00	0.00	0.00
9700.00	90.00	359.92	6520.00	3425.91	-4.69	0.00	0.00	0.00
9800.00	90.00	359.92	6520.00	3525.91	-4.82	0.00	0.00	0.00
9900.00	90.00	359.92	6520.00	3625.91	-4.96	0.00	0.00	0.00
10000.00	90.00	359.92	6520.00	3725.91	-5.10	0.00	0.00	0.00
10100.00	90.00	359.92	6520.00	3825.91	-5.23	0.00	0.00	0.00
10200.00	90.00	359.92	6520.00	3925.91	-5.37	0.00	0.00	0.00
10300.00	90.00	359.92	6520.00	4025.91	-5.51	0.00	0.00	0.00
10400.00	90.00	359.92	6520.00	4125.91	-5.64	0.00	0.00	0.00
10500.00	90.00	359.92	6520.00	4225.91	-5.78	0.00	0.00	0.00
10600.00	90.00	359.92	6520.00	4325.91	-5.92	0.00	0.00	0.00
10700.00	90.00	359.92	6520.00	4425.91	-6.05	0.00	0.00	0.00
10800.00	90.00	359.92	6520.00	4525.91	-6.19	0.00	0.00	0.00
10900.00	90.00	359.92	6520.00	4625.91	-6.33	0.00	0.00	0.00
11000.00	90.00	359.92	6520.00	4725.91	-6.46	0.00	0.00	0.00
11044.54	90.00	359.92	6520.00	4770.46	-6.52	0.00	0.00	0.00

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