

Submit 1 Copy To Appropriate District Office

HOBBS OGD

State of New Mexico

Form C-103

Revised August 1, 2011

District I - (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

District II - (575) 748-1283

811 S. First St., Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87404

District IV - (505) 476-3460

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

87505

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-40611

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Ironhouse 20 State

8. Well Number

1H

9. OGRID Number

6137

10. Pool name or Wildcat

WC-025-G-06-S183518A; Bone Spring

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Devon Energy Production Company, L.P.

3. Address of Operator

333 W. Sheridan, Oklahoma City, OK 73102

4. Well Location

Unit Letter P feet 660 from the South line and 50 feet from the East line

Section 20 Township 18S Range 35E NMPM Lea, County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

n/a

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: To change SHL/BHL

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., LP respectfully requests approval to change the following:

Current SHL: 660' FSL, 50' FEL, P- Section 20-18S-35E
BHL: 660' FSL, 330' FWL, M- Section 20-18S-35E

Change to NOW:

Proposed: SHL: 200' FSL, 1,980 FEL, O-Section 20-T18S-R35E
BHL: 330' FNL, 1,980' FEL, B-Section 20-18S-R35E

Please see attached:

Revised C-102

Revised Directional Plan

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE:

Erin Workman

TITLE: Regulatory Compliance Associate

DATE: 11/16/12

Type or print name:

E-mail address: Erin.workman@dv.com

PHONE: 405-552-7970

For State Use Only

APPROVED BY:

[Signature]

TITLE

Dist MGR

DATE

11-20-2012

Conditions of Approval (if any):

NOV 29 2012

DEVON ENERGY

Project: Lea County, NM
Site: Ironhorse "20" State
Well: 1H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.94°

Magnetic Field
Strength: 48783.5nT
Dip Angle: 60.63°
Date: 11/14/2012
Model: IGRF2010

devon

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(1°20'S 1H)	0.00	0.00	0.00	629096.41	804539.12	32° 43' 35.413 N	103° 28' 38.653 W
PBHL(1°20'S 1H)	9800.00	4752.06	-58.16	633848.47	804480.96	32° 44' 22.435 N	103° 28' 39.084 W

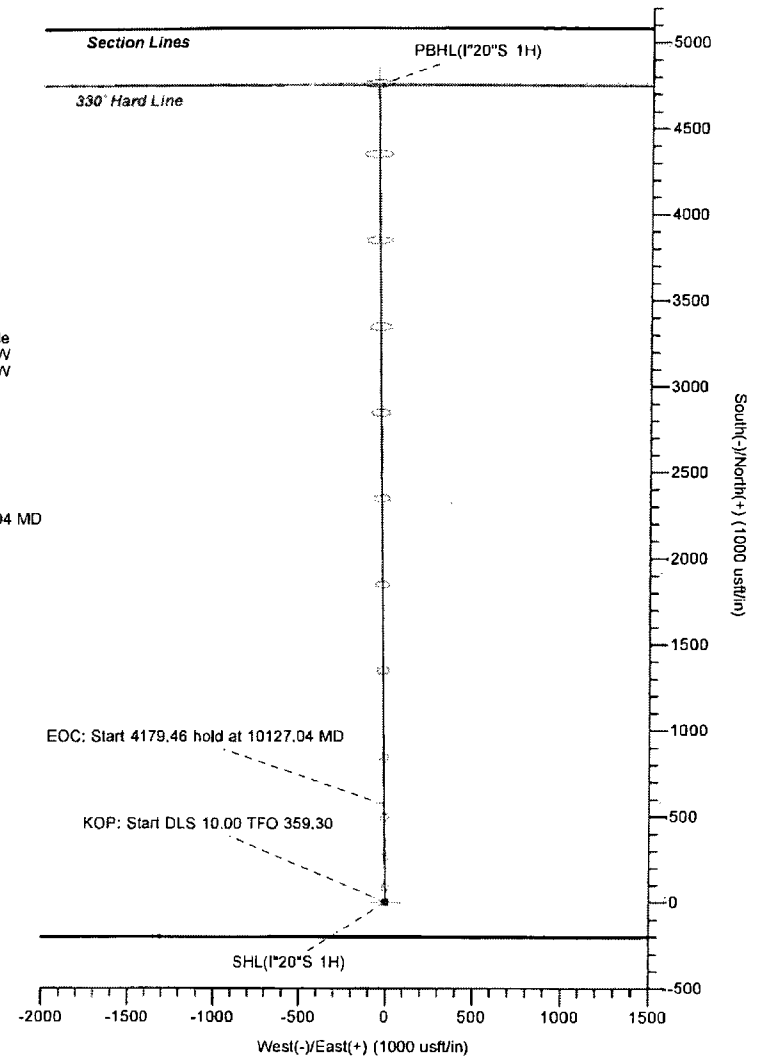
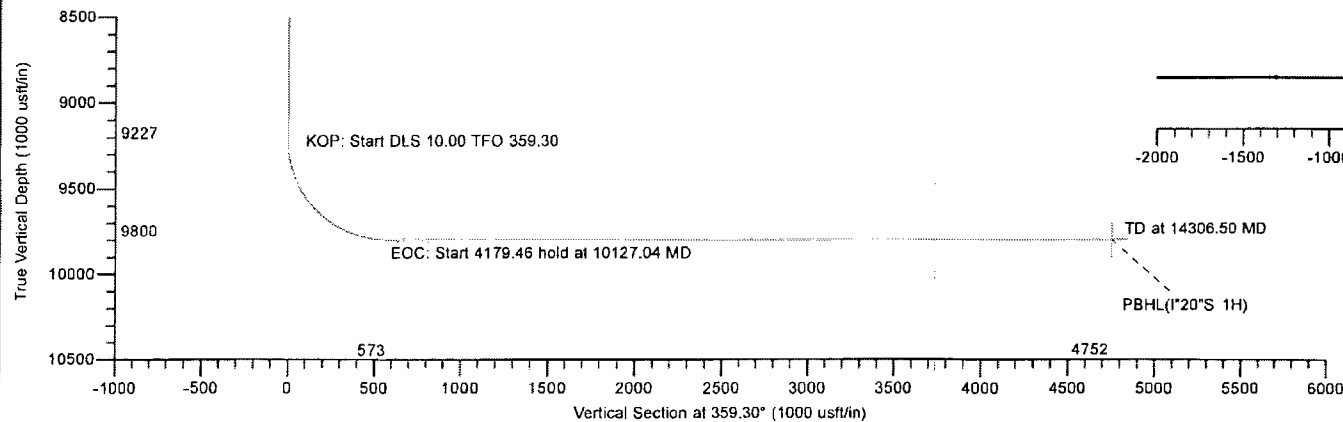
SECTION DETAILS

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	KOP: Start DLS 10.00 TFO 359.30
2	9227.04	0.00	0.00	9227.04	0.00	0.00	0.00	0.00	0.00	EOC: Start 4179.46 hold at 10127.04 MD
3	10127.04	90.00	359.30	9800.00	572.91	-7.01	10.00	359.30	572.96	TD at 14306.50 MD
4	14306.50	90.00	359.30	9800.00	4752.06	-58.16	0.00	0.00	4752.42	

HOBBS OGD

NOV 14 2012

RECEIVED



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

Plan: Plan #1 (1H/CH)
Ironhorse "20" State
Created By: Tyler Carlson
Date: 10:41, November 14 2012
Approved: _____
Date: _____

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
 Company: DEVON ENERGY
 Project: Lea County, NM
 Site: Ironhorse "20" State
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: GE 3933' + KB: 18' @ 3951.00usft (H&P 223)
 MD Reference: GE 3933' + KB: 18' @ 3951.00usft (H&P 223)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Ironhorse "20" State		
Site Position:		Northing:	629,096.41 usft
From:	Map	Easting:	804,539.12 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 43' 35.413 N
		Longitude:	103° 28' 38.853 W
		Grid Convergence:	0.46 "

Well	1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 43' 35.413 N
		Longitude:	103° 28' 38.853 W
		Ground Level:	3,933.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	11/14/12	7.40
		Dip Angle	60.63
		Field Strength	48,784
		(nT)	

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.30

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
9,227.04	0.00	0.00	9,227.04	0.00	0.00	0.00	0.00	0.00	0.00	
10,127.04	90.00	359.30	9,800.00	572.91	-7.01	10.00	10.00	-0.08	359.30	
14,306.50	90.00	359.30	9,800.00	4,752.06	-58.16	0.00	0.00	0.00	0.00	PBHL(I"20"S 1H)

LEAM Drilling Systems LLC

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 Wellbore: OH
 Design: Plan #1

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 MD Reference: GE 3933' + KB: 18' @ 3951.00usft (H&P 223)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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
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

LEAM Drilling Systems LLC

Planning Report

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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
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,227.04	0.00	0.00	9,227.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 10.00 TFO 359.30									
9,250.00	2.30	359.30	9,249.99	0.46	-0.01	0.46	10.00	10.00	0.00
9,300.00	7.30	359.30	9,299.80	4.64	-0.06	4.64	10.00	10.00	0.00
9,350.00	12.30	359.30	9,349.06	13.14	-0.16	13.14	10.00	10.00	0.00
9,400.00	17.30	359.30	9,397.39	25.91	-0.32	25.91	10.00	10.00	0.00
9,450.00	22.30	359.30	9,444.42	42.83	-0.52	42.84	10.00	10.00	0.00
9,500.00	27.30	359.30	9,489.79	63.79	-0.78	63.80	10.00	10.00	0.00
9,550.00	32.30	359.30	9,533.17	88.63	-1.08	88.64	10.00	10.00	0.00
9,600.00	37.30	359.30	9,574.21	117.15	-1.43	117.16	10.00	10.00	0.00
9,650.00	42.30	359.30	9,612.62	149.14	-1.83	149.15	10.00	10.00	0.00
9,700.00	47.30	359.30	9,648.09	184.36	-2.26	184.37	10.00	10.00	0.00
9,750.00	52.30	359.30	9,680.35	222.53	-2.72	222.55	10.00	10.00	0.00
9,800.00	57.30	359.30	9,709.17	263.37	-3.22	263.39	10.00	10.00	0.00

LEAM Drilling Systems LLC

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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
9,850.00	62.30	359.30	9,734.32	306.56	-3.75	306.59	10.00	10.00	0.00
9,900.00	67.30	359.30	9,755.80	351.78	-4.31	351.81	10.00	10.00	0.00
9,950.00	72.30	359.30	9,772.86	398.69	-4.88	398.72	10.00	10.00	0.00
10,000.00	77.30	359.30	9,785.97	446.92	-5.47	446.95	10.00	10.00	0.00
10,050.00	82.30	359.30	9,794.83	496.11	-6.07	496.15	10.00	10.00	0.00
10,100.00	87.30	359.30	9,799.36	545.88	-6.68	545.93	10.00	10.00	0.00
10,127.04	90.00	359.30	9,800.00	572.91	-7.01	572.96	10.00	10.00	0.00
EOC: Start 4179.46 hold at 10127.04 MD									
10,200.00	90.00	359.30	9,800.00	645.87	-7.90	645.92	0.00	0.00	0.00
10,300.00	90.00	359.30	9,800.00	745.86	-9.13	745.92	0.00	0.00	0.00
10,400.00	90.00	359.30	9,800.00	845.85	-10.35	845.92	0.00	0.00	0.00
10,500.00	90.00	359.30	9,800.00	945.84	-11.58	945.92	0.00	0.00	0.00
10,600.00	90.00	359.30	9,800.00	1,045.84	-12.80	1,045.92	0.00	0.00	0.00
10,700.00	90.00	359.30	9,800.00	1,145.83	-14.02	1,145.92	0.00	0.00	0.00
10,800.00	90.00	359.30	9,800.00	1,245.82	-15.25	1,245.92	0.00	0.00	0.00
10,900.00	90.00	359.30	9,800.00	1,345.81	-16.47	1,345.92	0.00	0.00	0.00
11,000.00	90.00	359.30	9,800.00	1,445.81	-17.70	1,445.92	0.00	0.00	0.00
11,100.00	90.00	359.30	9,800.00	1,545.80	-18.92	1,545.92	0.00	0.00	0.00
11,200.00	90.00	359.30	9,800.00	1,645.79	-20.14	1,645.92	0.00	0.00	0.00
11,300.00	90.00	359.30	9,800.00	1,745.78	-21.37	1,745.92	0.00	0.00	0.00
11,400.00	90.00	359.30	9,800.00	1,845.78	-22.59	1,845.92	0.00	0.00	0.00
11,500.00	90.00	359.30	9,800.00	1,945.77	-23.81	1,945.92	0.00	0.00	0.00
11,600.00	90.00	359.30	9,800.00	2,045.76	-25.04	2,045.92	0.00	0.00	0.00
11,700.00	90.00	359.30	9,800.00	2,145.75	-26.26	2,145.92	0.00	0.00	0.00
11,800.00	90.00	359.30	9,800.00	2,245.75	-27.49	2,245.92	0.00	0.00	0.00
11,900.00	90.00	359.30	9,800.00	2,345.74	-28.71	2,345.92	0.00	0.00	0.00
12,000.00	90.00	359.30	9,800.00	2,445.73	-29.93	2,445.92	0.00	0.00	0.00
12,100.00	90.00	359.30	9,800.00	2,545.72	-31.16	2,545.92	0.00	0.00	0.00
12,200.00	90.00	359.30	9,800.00	2,645.72	-32.38	2,645.92	0.00	0.00	0.00
12,300.00	90.00	359.30	9,800.00	2,745.71	-33.60	2,745.92	0.00	0.00	0.00
12,400.00	90.00	359.30	9,800.00	2,845.70	-34.83	2,845.92	0.00	0.00	0.00
12,500.00	90.00	359.30	9,800.00	2,945.70	-36.05	2,945.92	0.00	0.00	0.00
12,600.00	90.00	359.30	9,800.00	3,045.69	-37.28	3,045.92	0.00	0.00	0.00
12,700.00	90.00	359.30	9,800.00	3,145.68	-38.50	3,145.92	0.00	0.00	0.00
12,800.00	90.00	359.30	9,800.00	3,245.67	-39.72	3,245.92	0.00	0.00	0.00
12,900.00	90.00	359.30	9,800.00	3,345.67	-40.95	3,345.92	0.00	0.00	0.00
13,000.00	90.00	359.30	9,800.00	3,445.66	-42.17	3,445.92	0.00	0.00	0.00
13,100.00	90.00	359.30	9,800.00	3,545.65	-43.39	3,545.92	0.00	0.00	0.00
13,200.00	90.00	359.30	9,800.00	3,645.64	-44.62	3,645.92	0.00	0.00	0.00
13,300.00	90.00	359.30	9,800.00	3,745.64	-45.84	3,745.92	0.00	0.00	0.00
13,400.00	90.00	359.30	9,800.00	3,845.63	-47.07	3,845.92	0.00	0.00	0.00
13,500.00	90.00	359.30	9,800.00	3,945.62	-48.29	3,945.92	0.00	0.00	0.00
13,600.00	90.00	359.30	9,800.00	4,045.61	-49.51	4,045.92	0.00	0.00	0.00
13,700.00	90.00	359.30	9,800.00	4,145.61	-50.74	4,145.92	0.00	0.00	0.00
13,800.00	90.00	359.30	9,800.00	4,245.60	-51.96	4,245.92	0.00	0.00	0.00
13,900.00	90.00	359.30	9,800.00	4,345.59	-53.19	4,345.92	0.00	0.00	0.00
14,000.00	90.00	359.30	9,800.00	4,445.58	-54.41	4,445.92	0.00	0.00	0.00
14,100.00	90.00	359.30	9,800.00	4,545.58	-55.63	4,545.92	0.00	0.00	0.00
14,200.00	90.00	359.30	9,800.00	4,645.57	-56.86	4,645.92	0.00	0.00	0.00
14,306.50	90.00	359.30	9,800.00	4,752.06	-58.16	4,752.42	0.00	0.00	0.00
TD at 14306.50 MD									

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
 Company: DEVON ENERGY
 Project: Lea County, NM
 Site: Ironhorse "20" State
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: GE 3933' + KB: 18' @ 3951.00usft (H&P 223)
 MD Reference: GE 3933' + KB: 18' @ 3951.00usft (H&P 223)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL(1"20"S 1H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	629,096.41	804,539.12	32° 43' 35.413 N	103° 28' 38.853 W
PBHL(1"20"S 1H) - plan hits target center - Point	0.00	0.00	9,800.00	4,752.06	-58.16	633,848.47	804,480.96	32° 44' 22.435 N	103° 28' 39.084 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,227.04	9,227.04	0.00	0.00	KOP: Start DLS 10.00 TFO 359.30
10,127.04	9,800.00	572.91	-7.01	EOC: Start 4179.46 hold at 10127.04 MD
14,306.50	9,800.00	4,752.06	-58.16	TD at 14306.50 MD