

B.C. OPERATING, INC.

CHILI PARLOR 17 FEDERAL

SEC. 17, T22S, R33E

3H

3H

Plan: 030415 V1

Planning Report

04 March, 2015



HOBBS OCD

MAR 28 2016

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GeoGuidance Drilling Planning Report



Company:	B.C. OPERATING, INC.	Local Co-ordinate Reference:	Well 3H
Project:	CHILI PARLOR 17 FEDERAL	TVD Reference:	3H @ 3589.00usft (GL + 20')
Site:	SEC. 17, T22S, R33E	MD Reference:	3H @ 3589.00usft (GL + 20')
Well:	3H	North Reference:	Grid
Wellbore:	3H	Survey Calculation Method:	Minimum Curvature
Design:	030415 V1	Database:	TEXAS

Project	CHILI PARLOR 17 FEDERAL	
Map System:	US State Plane 1983	System Datum:
Geo Datum:	North American Datum 1983	Mean Sea Level
Map Zone:	New Mexico Eastern Zone	

Site	SEC. 17, T22S, R33E			
Site Position:	Northings:	510,000.00 usft	Latitude:	32.399880
From:	Easting:	770,000.00 usft	Longitude:	-103.592459
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	3H, SUR. N 509950.43 E 769785.91			
Well Position	+N/-S	0.00 usft	Northings:	509,950.43 usft
	+E/-W	0.00 usft	Easting:	769,785.91 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,589.00 usft
			Latitude:	32.399748
			Longitude:	-103.593154
			Ground Level:	3,569.00 usft

Wellbore	3H			
Magnetics	Model Name	Sample Date	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/4/2015	7.22	60.25
				48,275

Design	030415 V1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.48

Survey Tool Program	Date	3/4/2015	
From (usft)	To (usft)	Survey (Wellbore)	Description
0.00	16,889.56	030415 V1 (3H)	

GeoGuidance Drilling

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 Well: 3H
 Wellbore: 3H
 Design: 030415 V1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well 3H
 3H @ 3589.00usft (GL + 20')
 3H @ 3589.00usft (GL + 20')
 Grid
 Minimum Curvature
 TEXAS

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	3,589.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
100.00	0.00	0.00	100.00	3,489.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
200.00	0.00	0.00	200.00	3,389.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
300.00	0.00	0.00	300.00	3,289.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
400.00	0.00	0.00	400.00	3,189.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
500.00	0.00	0.00	500.00	3,089.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
600.00	0.00	0.00	600.00	2,989.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
700.00	0.00	0.00	700.00	2,889.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
800.00	0.00	0.00	800.00	2,789.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
900.00	0.00	0.00	900.00	2,689.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,000.00	0.00	0.00	1,000.00	2,589.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,100.00	0.00	0.00	1,100.00	2,489.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,200.00	0.00	0.00	1,200.00	2,389.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,300.00	0.00	0.00	1,300.00	2,289.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,400.00	0.00	0.00	1,400.00	2,189.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,500.00	0.00	0.00	1,500.00	2,089.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,600.00	0.00	0.00	1,600.00	1,989.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,700.00	0.00	0.00	1,700.00	1,889.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,800.00	0.00	0.00	1,800.00	1,789.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
1,900.00	0.00	0.00	1,900.00	1,689.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,000.00	0.00	0.00	2,000.00	1,589.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,100.00	0.00	0.00	2,100.00	1,489.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,200.00	0.00	0.00	2,200.00	1,389.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,300.00	0.00	0.00	2,300.00	1,289.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,400.00	0.00	0.00	2,400.00	1,189.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,500.00	0.00	0.00	2,500.00	1,089.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,600.00	0.00	0.00	2,600.00	989.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91

GeoGuidance Drilling

Planning Report



Company: B.C. OPERATING, INC.
 Project: CHILI PARLOR 17 FEDERAL
 Site: SEC. 17, T22S, R33E
 Well: 3H
 Wellbore: 3H
 Design: 030415 V1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well 3H
 3H @ 3589.00usft (GL + 20')
 3H @ 3589.00usft (GL + 20')
 Grid
 Minimum Curvature
 TEXAS

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0.00	2,700.00	889.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,800.00	0.00	0.00	2,800.00	789.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
2,900.00	0.00	0.00	2,900.00	689.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,000.00	0.00	0.00	3,000.00	589.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,100.00	0.00	0.00	3,100.00	489.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,200.00	0.00	0.00	3,200.00	389.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,300.00	0.00	0.00	3,300.00	289.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,400.00	0.00	0.00	3,400.00	189.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,500.00	0.00	0.00	3,500.00	89.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,600.00	0.00	0.00	3,600.00	-11.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,700.00	0.00	0.00	3,700.00	-111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,800.00	0.00	0.00	3,800.00	-211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
3,900.00	0.00	0.00	3,900.00	-311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,000.00	0.00	0.00	4,000.00	-411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,100.00	0.00	0.00	4,100.00	-511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,200.00	0.00	0.00	4,200.00	-611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,300.00	0.00	0.00	4,300.00	-711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,400.00	0.00	0.00	4,400.00	-811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,500.00	0.00	0.00	4,500.00	-911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,600.00	0.00	0.00	4,600.00	-1,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,700.00	0.00	0.00	4,700.00	-1,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,800.00	0.00	0.00	4,800.00	-1,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
4,900.00	0.00	0.00	4,900.00	-1,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,000.00	0.00	0.00	5,000.00	-1,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,100.00	0.00	0.00	5,100.00	-1,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,200.00	0.00	0.00	5,200.00	-1,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,300.00	0.00	0.00	5,300.00	-1,711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91

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MD Reference: 3H @ 3589.00usft (GL + 20')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: TEXAS

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5,400.00	0.00	0.00	5,400.00	-1,811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,500.00	0.00	0.00	5,500.00	-1,911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,600.00	0.00	0.00	5,600.00	-2,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,700.00	0.00	0.00	5,700.00	-2,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,800.00	0.00	0.00	5,800.00	-2,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
5,900.00	0.00	0.00	5,900.00	-2,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,000.00	0.00	0.00	6,000.00	-2,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,100.00	0.00	0.00	6,100.00	-2,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,200.00	0.00	0.00	6,200.00	-2,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,300.00	0.00	0.00	6,300.00	-2,711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,400.00	0.00	0.00	6,400.00	-2,811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,500.00	0.00	0.00	6,500.00	-2,911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,600.00	0.00	0.00	6,600.00	-3,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,700.00	0.00	0.00	6,700.00	-3,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,800.00	0.00	0.00	6,800.00	-3,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
6,900.00	0.00	0.00	6,900.00	-3,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,000.00	0.00	0.00	7,000.00	-3,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,100.00	0.00	0.00	7,100.00	-3,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,200.00	0.00	0.00	7,200.00	-3,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,300.00	0.00	0.00	7,300.00	-3,711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,400.00	0.00	0.00	7,400.00	-3,811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,500.00	0.00	0.00	7,500.00	-3,911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,600.00	0.00	0.00	7,600.00	-4,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,700.00	0.00	0.00	7,700.00	-4,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,800.00	0.00	0.00	7,800.00	-4,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
7,900.00	0.00	0.00	7,900.00	-4,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,000.00	0.00	0.00	8,000.00	-4,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91

GeoGuidance Drilling

Planning Report



Company: B.C. OPERATING, INC.
 Project: CHILI PARLOR 17 FEDERAL
 Site: SEC. 17, T22S, R33E
 Well: 3H
 Wellbore: 3H
 Design: 030415 V1

Local Co-ordinate Reference:
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 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well 3H
 3H @ 3589.00usft (GL + 20')
 3H @ 3589.00usft (GL + 20')
 Grid
 Minimum Curvature
 TEXAS

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.00	0.00	0.00	8,100.00	-4,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,200.00	0.00	0.00	8,200.00	-4,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,300.00	0.00	0.00	8,300.00	-4,711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,400.00	0.00	0.00	8,400.00	-4,811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,500.00	0.00	0.00	8,500.00	-4,911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,600.00	0.00	0.00	8,600.00	-5,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,700.00	0.00	0.00	8,700.00	-5,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,800.00	0.00	0.00	8,800.00	-5,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
8,900.00	0.00	0.00	8,900.00	-5,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,000.00	0.00	0.00	9,000.00	-5,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,100.00	0.00	0.00	9,100.00	-5,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,200.00	0.00	0.00	9,200.00	-5,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,300.00	0.00	0.00	9,300.00	-5,711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,400.00	0.00	0.00	9,400.00	-5,811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,500.00	0.00	0.00	9,500.00	-5,911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,600.00	0.00	0.00	9,600.00	-6,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,700.00	0.00	0.00	9,700.00	-6,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,800.00	0.00	0.00	9,800.00	-6,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
9,900.00	0.00	0.00	9,900.00	-6,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,000.00	0.00	0.00	10,000.00	-6,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,100.00	0.00	0.00	10,100.00	-6,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,200.00	0.00	0.00	10,200.00	-6,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,300.00	0.00	0.00	10,300.00	-6,711.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,400.00	0.00	0.00	10,400.00	-6,811.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,500.00	0.00	0.00	10,500.00	-6,911.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,600.00	0.00	0.00	10,600.00	-7,011.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,700.00	0.00	0.00	10,700.00	-7,111.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91

GeoGuidance Drilling Planning Report



Company: B.C. OPERATING, INC.
Project: CHILLI PARLOR 17 FEDERAL
Site: SEC. 17, T22S, R33E
Well: 3H
Wellbore: 3H
Design: 030415 V1

Local Co-ordinate Reference:
TVD Reference: 3H @ 3589.00usft (GL + 20')
MD Reference: 3H @ 3589.00usft (GL + 20')
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: TEXAS

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,800.00	0.00	0.00	10,800.00	-7,211.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
10,900.00	0.00	0.00	10,900.00	-7,311.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
11,000.00	0.00	0.00	11,000.00	-7,411.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
11,100.00	0.00	0.00	11,100.00	-7,511.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
11,200.00	0.00	0.00	11,200.00	-7,611.00	0.00	0.00	0.00	0.00	509,950.43	769,785.91
11,280.46	0.00	0.00	11,280.46	-7,691.46	0.00	0.00	0.00	0.00	509,950.43	769,785.91
Start Build 10.06										
11,300.00	1.97	179.57	11,300.00	-7,711.00	-0.34	0.00	0.34	10.06	509,950.09	769,785.91
11,400.00	12.03	179.57	11,399.12	-7,810.12	-12.50	0.09	12.50	10.06	509,937.93	769,786.00
11,500.00	22.09	179.57	11,494.60	-7,905.60	-41.79	0.31	41.79	10.06	509,908.64	769,786.22
11,600.00	32.15	179.57	11,583.50	-7,994.50	-87.31	0.65	87.31	10.06	509,863.12	769,786.56
11,700.00	42.21	179.57	11,663.07	-8,074.07	-147.66	1.11	147.66	10.06	509,802.77	769,787.02
11,800.00	52.27	179.57	11,730.89	-8,141.89	-220.98	1.66	220.98	10.06	509,729.45	769,787.57
11,900.00	62.33	179.57	11,784.85	-8,195.85	-305.01	2.29	305.02	10.06	509,645.42	769,788.20
12,000.00	72.39	179.57	11,823.30	-8,234.30	-397.18	2.98	397.19	10.06	509,553.25	769,788.89
12,100.00	82.45	179.57	11,845.06	-8,256.06	-494.65	3.71	494.67	10.06	509,455.78	769,789.62
12,175.09	90.00	179.57	11,850.00	-8,261.00	-569.52	4.27	569.54	10.06	509,380.91	769,790.18
12,175.54	90.00	179.57	11,850.00	-8,261.00	-569.97	4.27	569.99	0.00	509,380.46	769,790.18
Start DLS 0.00 TFO -90.00 - 3H FTP										
12,200.00	90.00	179.57	11,850.00	-8,261.00	-594.43	4.45	594.45	0.00	509,356.00	769,790.36
12,300.00	90.00	179.57	11,850.00	-8,261.00	-694.43	5.21	694.45	0.00	509,256.00	769,791.12
12,400.00	90.00	179.56	11,850.00	-8,261.00	-794.43	5.97	794.45	0.00	509,156.00	769,791.88
12,500.00	90.00	179.56	11,850.00	-8,261.00	-894.42	6.74	894.45	0.00	509,056.01	769,792.65
12,600.00	90.00	179.55	11,850.00	-8,261.00	-994.42	7.52	994.45	0.00	508,956.01	769,793.43
12,700.00	90.00	179.55	11,850.00	-8,261.00	-1,094.42	8.30	1,094.45	0.00	508,856.01	769,794.21
12,800.00	90.00	179.54	11,850.00	-8,261.00	-1,194.41	9.10	1,194.45	0.00	508,756.02	769,795.01
12,900.00	90.00	179.54	11,850.00	-8,261.00	-1,294.41	9.90	1,294.45	0.00	508,656.02	769,795.81

GeoGuidance Drilling

Planning Report



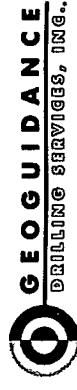
Company: B.C. OPERATING, INC.
 Project: CHILI PARLOR 17 FEDERAL
 Site: SEC. 17, T2S, R33E
 Well: 3H
 Wellbore: 3H
 Design: 030415 V1

Local Co-ordinate Reference: Well 3H
 TVD Reference: 3H @ 3589.00usft (GL + 20')
 MD Reference: 3H @ 3589.00usft (GL + 20')
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: TEXAS

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,000.00	90.00	179.53	11,850.00	-8,261.00	-1,394.41	10.71	1,394.45	0.00	508,556.02	769,796.62
13,100.00	90.00	179.53	11,850.00	-8,261.00	-1,494.40	11.52	1,494.45	0.00	508,456.03	769,797.43
13,200.00	90.00	179.53	11,850.00	-8,261.00	-1,594.40	12.34	1,594.45	0.00	508,356.03	769,798.25
13,300.00	90.00	179.52	11,850.00	-8,261.00	-1,694.40	13.18	1,694.45	0.00	508,256.03	769,799.09
13,400.00	90.00	179.52	11,850.00	-8,261.00	-1,794.39	14.01	1,794.45	0.00	508,156.04	769,799.92
13,500.00	90.00	179.51	11,850.00	-8,261.00	-1,894.39	14.86	1,894.45	0.00	508,056.04	769,800.77
13,600.00	90.00	179.51	11,850.00	-8,261.00	-1,994.39	15.71	1,994.45	0.00	507,956.04	769,801.62
13,700.00	90.00	179.50	11,850.00	-8,261.00	-2,094.38	16.58	2,094.45	0.00	507,856.05	769,802.49
13,800.00	90.00	179.50	11,850.00	-8,261.00	-2,194.38	17.44	2,194.45	0.00	507,756.05	769,803.35
13,900.00	90.00	179.50	11,850.00	-8,261.00	-2,294.38	18.32	2,294.45	0.00	507,656.05	769,804.23
14,000.00	90.00	179.49	11,850.00	-8,261.00	-2,394.37	19.21	2,394.45	0.00	507,556.06	769,805.12
14,100.00	90.00	179.49	11,850.00	-8,261.00	-2,494.37	20.10	2,494.45	0.00	507,456.06	769,806.01
14,200.00	90.00	179.48	11,850.00	-8,261.00	-2,594.36	21.00	2,594.45	0.00	507,356.07	769,806.91
14,300.00	90.00	179.48	11,850.00	-8,261.00	-2,694.36	21.90	2,694.45	0.00	507,256.07	769,807.81
14,400.00	90.00	179.47	11,850.00	-8,261.00	-2,794.36	22.82	2,794.45	0.00	507,156.07	769,808.73
14,500.00	90.00	179.47	11,850.00	-8,261.00	-2,894.35	23.74	2,894.45	0.00	507,056.08	769,809.65
14,600.00	90.00	179.46	11,850.00	-8,261.00	-2,994.35	24.67	2,994.45	0.00	506,956.08	769,810.58
14,700.00	90.00	179.46	11,850.00	-8,261.00	-3,094.34	25.61	3,094.45	0.00	506,856.09	769,811.52
14,800.00	90.00	179.46	11,850.00	-8,261.00	-3,194.34	26.55	3,194.45	0.00	506,756.09	769,812.46
14,900.00	90.00	179.45	11,850.00	-8,261.00	-3,294.33	27.51	3,294.45	0.00	506,656.10	769,813.42
15,000.00	90.00	179.45	11,850.00	-8,261.00	-3,394.33	28.47	3,394.45	0.00	506,556.10	769,814.38
15,100.00	90.00	179.44	11,850.00	-8,261.00	-3,494.32	29.44	3,494.45	0.00	506,456.11	769,815.35
15,200.00	90.00	179.44	11,850.00	-8,261.00	-3,594.32	30.41	3,594.45	0.00	506,356.11	769,816.32
15,300.00	90.00	179.43	11,850.00	-8,261.00	-3,694.31	31.40	3,694.45	0.00	506,256.12	769,817.31
15,400.00	90.00	179.43	11,850.00	-8,261.00	-3,794.31	32.39	3,794.45	0.00	506,156.12	769,818.30
15,500.00	90.00	179.43	11,850.00	-8,261.00	-3,894.30	33.39	3,894.45	0.00	506,056.13	769,819.30
15,600.00	90.00	179.42	11,850.00	-8,261.00	-3,994.30	34.39	3,994.45	0.00	505,956.13	769,820.30

GeoGuidance Drilling Planning Report



Company: B.C. OPERATING, INC.
Project: CHILI PARLOR 17 FEDERAL
Site: SEC. 17, T22S, R33E
Well: 3H
Wellbore: 3H
Design: 030415 V1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 3H
3H @ 3589.00usft (GL + 20')
3H @ 3589.00usft (GL + 20')
Grid
Minimum Curvature
TEXAS

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
15,700.00	90.00	179.42	11,850.00	-8,261.00	-4,094.29	35.41	4,094.45	0.00	505,856.14	769,821.32
15,800.00	90.00	179.41	11,850.00	-8,261.00	-4,194.29	36.43	4,194.45	0.00	505,756.14	769,822.34
15,900.00	90.00	179.41	11,850.00	-8,261.00	-4,294.28	37.46	4,294.45	0.00	505,656.15	769,823.37
16,000.00	90.00	179.40	11,850.00	-8,261.00	-4,394.28	38.49	4,394.45	0.00	505,556.15	769,824.40
16,100.00	90.00	179.40	11,850.00	-8,261.00	-4,494.27	39.54	4,494.45	0.00	505,456.16	769,825.45
16,200.00	90.00	179.40	11,850.00	-8,261.00	-4,594.27	40.59	4,594.45	0.00	505,356.16	769,826.50
16,300.00	90.00	179.39	11,850.00	-8,261.00	-4,694.26	41.65	4,694.45	0.00	505,256.17	769,827.56
16,400.00	90.00	179.39	11,850.00	-8,261.00	-4,794.26	42.72	4,794.45	0.00	505,156.17	769,828.63
16,500.00	90.00	179.38	11,850.00	-8,261.00	-4,894.25	43.79	4,894.45	0.00	505,056.18	769,829.70
16,600.00	90.00	179.38	11,850.00	-8,261.00	-4,994.24	44.87	4,994.45	0.00	504,956.19	769,830.78
16,700.00	90.00	179.37	11,850.00	-8,261.00	-5,094.24	45.96	5,094.45	0.00	504,856.19	769,831.87
16,799.57	90.00	179.37	11,850.00	-8,261.00	-5,193.80	47.06	5,194.01	0.00	504,756.63	769,832.97
3H LTP										
16,800.00	90.00	179.37	11,850.00	-8,261.00	-5,194.23	47.06	5,194.45	0.00	504,756.20	769,832.97
16,889.56	90.00	179.36	11,850.00	-8,261.00	-5,283.79	48.05	5,284.01	0.00	504,666.64	769,833.96
TD at 16889.56 - 3H BHL										

GeoGuidance Drilling Planning Report



Company: B.C. OPERATING, INC.
Project: CHILI PARLOR 17 FEDERAL
Site: SEC. 17, T22S, R33E
Well: 3H
Wellbore: 3H
Design: 030415 V1

Local Co-ordinate Reference: Well 3H
TVD Reference: 3H @ 3589.00usft (GL + 20')
MD Reference: 3H @ 3589.00usft (GL + 20')
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: TEXAS

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
3H LTP - hit/miss target - Shape - Point	0.00	0.00	11,850.00	-5,193.80	47.21	504,756.63	769,833.12	32.385472	-103.593118
- plan misses target center by 0.15usft at 16799.57usft MD (11850.00 TVD, -5193.80 N, 47.06 E)									
3H FTP - plan hits target center - Point	0.00	0.00	11,850.00	-569.97	4.27	509,380.46	769,790.18	32.398181	-103.593153
3H BHL - plan hits target center - Point	0.00	0.00	11,850.00	-5,283.79	48.05	504,666.64	769,833.96	32.385224	-103.593117

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	+E-W (usft)	Comment
11,280.46	11,280.46	0.00	0.00	Start Build 10.06
12,175.54	11,850.00	-569.97	4.27	Start DLS 0.00 TFO -90.00
16,889.56	11,850.00	-5,283.79	48.05	TD at 16889.56

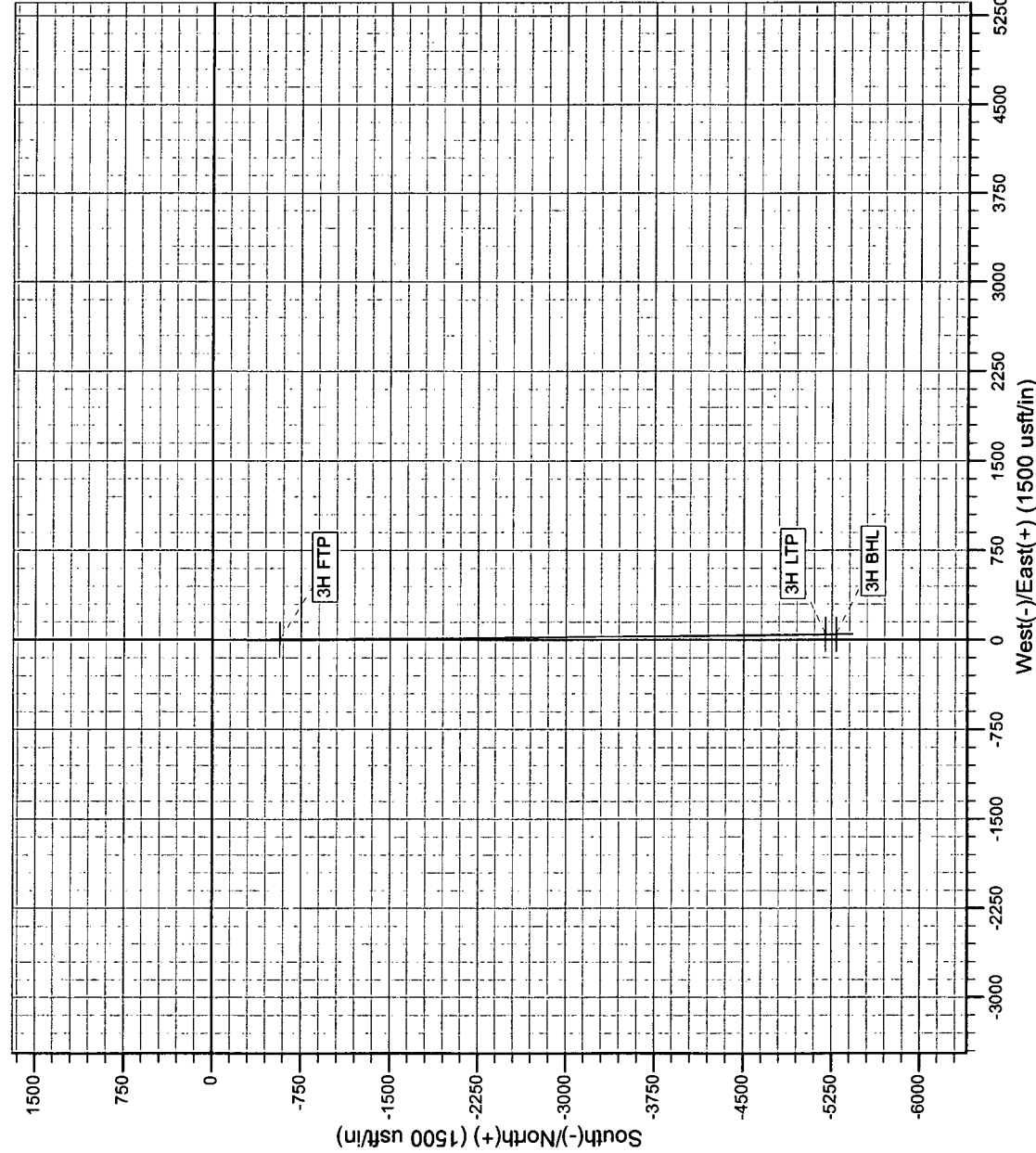
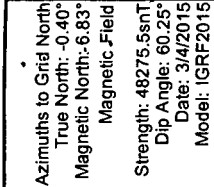
Checked By: _____

Approved By: _____

Date: _____



GEOGUIDANCE
DRILLING SERVICES, INC.



COMMENTS:	DESIGN TARGET DETAILS					SECTION DETAILS										
	Name	+N+S	+E+W	Shape		Sec	MD	Inc	Azi	TVD	+N+S	+E+W	Dleg	TFace	V\$ect	Target
KOP: 11280.46' DOGLEGS: 10.06' - plan misses target center by 0.15u\$ft at 16799.57u\$ft MD (11850.00 TVD, -5193.80 N, 47.06 E)	3H BHL	11850.00	-5283.79	48.05	Point	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
						2	11280.46	0.00	0.00	11280.46	0.00	0.00	0.00	0.00	0.00	
	3H FTP	11850.00	-569.97	4.27	Point	3	12172.03	90.00	179.57	11850.00	-569.52	4.27	10.06	179.57	569.54	3H FTP
						4	15172.53	90.00	179.57	11850.00	-569.97	4.27	0.00	569.99		3H BHL
						5	16689.56	90.00	179.36	11850.00	-5283.79	48.05	0.00	-90.00	5284.01	