



PHOENIX
TECHNOLOGY SERVICES

October 13, 2016

BC Operating
Attention: Regulatory Department
303 Veterans Airpark Lane #6101
PO Box 50820, Midland, TX 70710
Midland, TX 79705-4550

HOBBS OCD
APR 24 2017
RECEIVED

Re: BC Operating
Chili Parlor 17 Federal 2H
Lea County, NM
API #30-025-43137
Job No. 60336

Dear Regulatory Department,

Phoenix Technology Services, Inc. has filed the survey certification, surveys, and lease plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 2 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Larry Seebeck	2H	879	15886	9/19/16	10/5/16	MWD

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Bobbi Jo Jorgensen

Bobbi Jo Jorgensen
Operations Administrator

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

60336

ENERGY COMPANY BC Operating

WELL NAME Chili Parlor 17 Federal 2H

COUNTY & STATE

Lea, New Mexico

API WELL NUMBER	30-025-43137
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PROPOSED DIRECTION	182.73
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TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
781.00 ft	780.94 ft	2.05	241.16	-2.55 ft	-4.38 ft	Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
19-Sep-16	879.00 ft	1.94	246.71

SURVEY INSTRUMENT
TYPE
Phoenix MWD

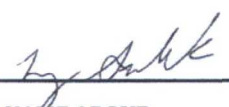
LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
5-Oct-16	15,886.00 ft	85.77	182.73

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
5-Oct-16	15,945.00 ft	85.77	182.73

Larry Seebeck

PRINT YOUR NAME ABOVE


SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.43
DECLINATION OR GRID	GRID

8-Sep
TODAY'S DATE

MWD SUPERVISOR 1

Larry Seebeck

DIRECTIONAL DRILLER 1

Vinn Adams

MWD SUPERVISOR 2

Seth Theriot

DIRECTIONAL DRILLER 2

Ruben Cano

12329 Cutten Rd., Houston, Texas 777066 (713)337-0600 (Voice), (713)337-0599 (Fax)



BC Operating, Inc.

**Lea County, NM (NAD27 NME)
Chili Parlor 17 Federal
#2H**

OH / Job #60336

Survey: Phoenix MWD Surveys

Standard Survey Report

05 October, 2016



Company: BC Operating, Inc.
Project: Lea County, NM (NAD27 NME)
Site: Chili Parlor 17 Federal
Well: #2H
Wellbore: OH / Job #60336
Design: Surveys (Patterson 244)

Local Co-ordinate Reference: Well #2H
TVD Reference: GL + KB @ 3620.50usft (Patterson 244)
MD Reference: GL + KB @ 3620.50usft (Patterson 244)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Chili Parlor 17 Federal

Site Position: Northing: 509,891.16 usft Latitude: 32° 23' 58.53638 N
From: Map Easting: 730,443.09 usft Longitude: 103° 35' 12.15148 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.40 °

Well #2H
Well Position +N/-S 0.00 usft Northing: 509,891.16 usft Latitude: 32° 23' 58.53638 N
 +E/-W 0.00 usft Easting: 730,443.09 usft Longitude: 103° 35' 12.15148 W
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,592.00 usft

Wellbore OH / Job #60336

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/7/2016	6.95	60.30	48,360

Design Surveys (Patterson 244)

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)
 0.00 0.00 0.00 182.73

Survey Program Date 10/5/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
80.84	781.00	VES Gyro Surveys (OH / Job #60336)	ISCWSA-GYRO-3	VES Gyro
880.00	15,945.00	Phoenix MWD Surveys (OH / Job #60336)	PHX+MWD+HDGM	PHX+MWD+HDGM

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)
781.00	2.05	241.16	780.94	-2.55	-4.38	2.76	0.00	0.00	0.00
Tie In									
879.00	1.94	246.71	878.88	-4.05	-7.44	4.40	0.23	-0.11	5.66
First Phoenix MWD Survey									
972.00	0.64	272.67	971.86	-4.65	-9.40	5.09	1.50	-1.40	27.91
1,065.00	0.61	347.54	1,064.85	-4.14	-10.03	4.62	0.82	-0.03	80.51
1,157.00	0.55	359.85	1,156.85	-3.22	-10.14	3.70	0.15	-0.07	13.38
1,250.00	0.40	36.90	1,249.84	-2.52	-9.94	2.99	0.36	-0.16	39.84
1,342.00	0.42	49.79	1,341.84	-2.04	-9.49	2.49	0.10	0.02	14.01

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
1,435.00	0.48	78.78	1,434.84	-1.75	-8.85	2.17	0.25	0.06	31.17
1,527.00	0.51	71.96	1,526.84	-1.55	-8.08	1.93	0.07	0.03	-7.41
1,620.00	0.57	85.18	1,619.83	-1.38	-7.23	1.72	0.15	0.06	14.22
1,712.00	0.69	76.68	1,711.83	-1.21	-6.23	1.51	0.16	0.13	-9.24
1,805.00	0.63	77.73	1,804.82	-0.98	-5.19	1.22	0.07	-0.06	1.13
1,897.00	1.01	73.90	1,896.81	-0.64	-3.92	0.83	0.42	0.41	-4.16
1,989.00	1.22	64.54	1,988.79	0.00	-2.25	0.10	0.30	0.23	-10.17
2,083.00	1.74	70.40	2,082.76	0.91	0.00	-0.91	0.58	0.55	6.23
2,177.00	0.37	63.97	2,176.74	1.52	1.61	-1.60	1.46	-1.46	-6.84
2,271.00	0.16	20.75	2,270.74	1.78	1.93	-1.87	0.29	-0.22	-45.98
2,366.00	0.56	73.26	2,365.74	2.04	2.42	-2.15	0.50	0.42	55.27
2,460.00	1.04	75.80	2,459.73	2.38	3.69	-2.55	0.51	0.51	2.70
2,555.00	0.15	110.69	2,554.73	2.55	4.64	-2.76	0.97	-0.94	36.73
2,649.00	0.26	52.30	2,648.73	2.63	4.93	-2.86	0.24	0.12	-62.12
2,743.00	0.66	68.33	2,742.72	2.96	5.60	-3.23	0.44	0.43	17.05
2,838.00	1.16	53.20	2,837.71	3.74	6.88	-4.06	0.58	0.53	-15.93
2,932.00	0.11	99.64	2,931.70	4.30	7.73	-4.66	1.16	-1.12	49.40
3,027.00	0.31	131.89	3,026.70	4.11	8.01	-4.49	0.24	0.21	33.95
3,121.00	1.49	102.72	3,120.69	3.67	9.39	-4.11	1.31	1.26	-31.03
3,215.00	0.72	170.29	3,214.67	2.82	10.68	-3.32	1.47	-0.82	71.88
3,309.00	0.83	230.63	3,308.67	1.81	10.26	-2.29	0.83	0.12	64.19
3,403.00	0.46	200.56	3,402.66	1.02	9.60	-1.48	0.52	-0.39	-31.99
3,497.00	0.63	164.54	3,496.66	0.17	9.60	-0.63	0.40	0.18	-38.32
3,591.00	0.75	159.04	3,590.65	-0.90	9.96	0.43	0.15	0.13	-5.85
3,685.00	0.64	146.22	3,684.64	-1.91	10.47	1.41	0.20	-0.12	-13.64
3,780.00	0.97	128.52	3,779.63	-2.86	11.40	2.31	0.43	0.35	-18.63
3,874.00	1.30	132.42	3,873.62	-4.07	12.81	3.46	0.36	0.35	4.15
3,969.00	1.20	234.90	3,968.60	-5.37	12.79	4.76	2.05	-0.11	107.87
4,064.00	2.29	259.53	4,063.56	-6.29	10.11	5.80	1.37	1.15	25.93
4,158.00	0.58	326.99	4,157.53	-6.23	8.00	5.84	2.27	-1.82	71.77
4,252.00	2.63	29.47	4,251.49	-3.95	8.80	3.53	2.57	2.18	66.47
4,346.00	1.95	31.03	4,345.42	-0.70	10.69	0.19	0.73	-0.72	1.66
4,440.00	0.66	41.87	4,439.39	1.07	11.87	-1.63	1.39	-1.37	11.53
4,535.00	0.34	67.88	4,534.39	1.58	12.50	-2.18	0.40	-0.34	27.38
4,566.00	0.49	67.71	4,565.38	1.67	12.71	-2.27	0.48	0.48	-0.55
4,656.00	0.18	68.43	4,655.38	1.87	13.20	-2.49	0.34	-0.34	0.80
4,718.00	0.05	29.64	4,717.38	1.92	13.30	-2.56	0.23	-0.21	-62.56
4,811.00	0.08	227.16	4,810.38	1.92	13.27	-2.55	0.14	0.03	-174.71
4,905.00	0.19	225.70	4,904.38	1.76	13.11	-2.38	0.12	0.12	-1.55
4,999.00	0.24	230.00	4,998.38	1.53	12.85	-2.14	0.06	0.05	4.57
5,094.00	0.16	240.87	5,093.38	1.33	12.58	-1.93	0.09	-0.08	11.44
5,189.00	0.24	180.30	5,188.38	1.07	12.47	-1.66	0.22	0.08	-63.76
5,283.00	0.35	150.80	5,282.38	0.62	12.60	-1.22	0.20	0.12	-31.38

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5,378.00	0.59	163.54	5,377.38	-0.10	12.88	-0.51	0.27	0.25	13.41
5,471.00	0.63	168.23	5,470.37	-1.06	13.12	0.43	0.07	0.04	5.04
5,565.00	0.71	157.52	5,564.36	-2.10	13.45	1.46	0.16	0.09	-11.39
5,659.00	0.80	148.33	5,658.36	-3.20	14.02	2.53	0.16	0.10	-9.78
5,754.00	0.90	150.43	5,753.35	-4.41	14.74	3.71	0.11	0.11	2.21
5,848.00	0.92	152.31	5,847.33	-5.72	15.45	4.98	0.04	0.02	2.00
5,943.00	0.98	150.71	5,942.32	-7.11	16.20	6.33	0.07	0.06	-1.68
6,037.00	0.99	153.34	6,036.31	-8.53	16.96	7.72	0.05	0.01	2.80
6,131.00	0.97	160.69	6,130.29	-10.01	17.59	9.16	0.14	-0.02	7.82
6,225.00	0.92	157.36	6,224.28	-11.46	18.14	10.58	0.08	-0.05	-3.54
6,319.00	0.89	156.14	6,318.27	-12.82	18.73	11.92	0.04	-0.03	-1.30
6,413.00	0.85	163.44	6,412.26	-14.16	19.22	13.23	0.13	-0.04	7.77
6,507.00	0.83	159.18	6,506.25	-15.46	19.66	14.51	0.07	-0.02	-4.53
6,601.00	0.83	156.86	6,600.24	-16.72	20.17	15.75	0.04	0.00	-2.47
6,695.00	0.97	160.27	6,694.23	-18.10	20.71	17.09	0.16	0.15	3.63
6,789.00	1.04	161.30	6,788.21	-19.66	21.25	18.62	0.08	0.07	1.10
6,883.00	0.03	16.96	6,882.21	-20.44	21.53	19.39	1.13	-1.07	-153.55
6,977.00	0.00	282.48	6,976.21	-20.42	21.54	19.37	0.03	-0.03	0.00
7,071.00	0.15	102.60	7,070.21	-20.44	21.66	19.39	0.16	0.16	0.00
7,165.00	0.55	304.38	7,164.21	-20.22	21.41	19.17	0.74	0.43	-168.32
7,259.00	0.50	302.85	7,258.20	-19.74	20.69	18.73	0.06	-0.05	-1.63
7,354.00	0.47	296.33	7,353.20	-19.34	19.99	18.37	0.07	-0.03	-6.86
7,448.00	0.32	294.11	7,447.20	-19.06	19.41	18.12	0.16	-0.16	-2.36
7,542.00	0.19	268.57	7,541.20	-18.96	19.01	18.03	0.18	-0.14	-27.17
7,636.00	0.20	219.58	7,635.19	-19.09	18.75	18.18	0.17	0.01	-52.12
7,731.00	0.23	207.04	7,730.19	-19.39	18.56	18.48	0.06	0.03	-13.20
7,825.00	0.36	201.04	7,824.19	-19.83	18.37	18.93	0.14	0.14	-6.38
7,919.00	0.62	185.38	7,918.19	-20.61	18.21	19.72	0.31	0.28	-16.66
8,013.00	0.93	298.99	8,012.18	-20.75	17.50	19.89	1.39	0.33	120.86
8,107.00	0.87	286.55	8,106.17	-20.18	16.15	19.39	0.22	-0.06	-13.23
8,201.00	0.90	272.77	8,200.16	-19.94	14.72	19.21	0.23	0.03	-14.66
8,295.00	0.80	266.15	8,294.15	-19.95	13.33	19.29	0.15	-0.11	-7.04
8,389.00	0.80	263.32	8,388.14	-20.07	12.03	19.47	0.04	0.00	-3.01
8,483.00	1.02	322.47	8,482.13	-19.48	10.86	18.94	0.98	0.23	62.93
8,577.00	0.90	311.89	8,576.12	-18.32	9.81	17.84	0.23	-0.13	-11.26
8,671.00	0.91	300.46	8,670.11	-17.45	8.61	17.02	0.19	0.01	-12.16
8,765.00	0.98	289.24	8,764.09	-16.81	7.21	16.45	0.21	0.07	-11.94
8,859.00	1.02	291.55	8,858.08	-16.24	5.67	15.95	0.06	0.04	2.46
8,954.00	1.18	348.73	8,953.07	-14.97	4.70	14.73	1.12	0.17	60.19
9,048.00	0.89	337.26	9,047.05	-13.34	4.22	13.13	0.38	-0.31	-12.20
9,142.00	1.09	341.79	9,141.04	-11.82	3.66	11.63	0.23	0.21	4.82
9,236.00	0.79	338.01	9,235.02	-10.37	3.14	10.21	0.33	-0.32	-4.02
9,331.00	1.02	230.59	9,330.02	-10.30	2.24	10.18	1.54	0.24	-113.07
9,425.00	1.24	296.84	9,424.00	-10.37	0.69	10.33	1.33	0.23	70.48

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9,519.00	1.79	285.70	9,517.97	-9.52	-1.63	9.58	0.66	0.59	-11.85
9,614.00	2.71	321.51	9,612.90	-7.36	-4.46	7.56	1.72	0.97	37.69
9,708.00	1.23	354.98	9,706.84	-4.61	-5.93	4.89	1.93	-1.57	35.61
9,802.00	1.43	345.81	9,800.82	-2.47	-6.31	2.77	0.31	0.21	-9.76
9,896.00	1.35	317.91	9,894.79	-0.51	-7.34	0.86	0.72	-0.09	-29.68
9,991.00	1.25	303.67	9,989.77	0.89	-8.95	-0.47	0.35	-0.11	-14.99
10,084.00	1.17	280.48	10,082.75	1.63	-10.73	-1.12	0.53	-0.09	-24.94
10,178.00	1.18	254.15	10,176.73	1.54	-12.60	-0.94	0.57	0.01	-28.01
10,185.00	1.28	252.65	10,183.73	1.50	-12.75	-0.89	1.50	1.43	-21.43
10,279.00	1.32	168.61	10,277.71	0.12	-13.53	0.52	1.85	0.04	-89.40
10,327.00	6.02	176.65	10,325.60	-2.94	-13.28	3.56	9.83	9.79	16.75
10,374.00	12.97	176.08	10,371.93	-10.67	-12.77	11.26	14.79	14.79	-1.21
10,421.00	18.90	177.14	10,417.10	-23.54	-12.03	24.09	12.63	12.62	2.26
10,468.00	23.04	177.63	10,460.98	-40.34	-11.27	40.83	8.82	8.81	1.04
10,515.00	27.27	177.44	10,503.51	-60.30	-10.41	60.72	9.00	9.00	-0.40
10,562.00	31.37	180.80	10,544.48	-83.30	-10.10	83.68	9.40	8.72	7.15
10,610.00	34.92	183.14	10,584.67	-109.52	-11.03	109.92	7.86	7.40	4.88
10,657.00	37.68	183.08	10,622.54	-137.30	-12.54	137.74	5.87	5.87	-0.13
10,704.00	40.25	184.18	10,659.08	-166.79	-14.41	167.29	5.66	5.47	2.34
10,751.00	45.18	183.70	10,693.61	-198.59	-16.60	199.15	10.51	10.49	-1.02
10,798.00	49.26	182.97	10,725.52	-233.02	-18.60	233.64	8.76	8.68	-1.55
10,845.00	53.28	181.48	10,754.92	-269.65	-20.01	270.29	8.90	8.55	-3.17
10,892.00	56.86	181.53	10,781.83	-308.16	-21.02	308.81	7.62	7.62	0.11
10,940.00	60.73	181.81	10,806.69	-349.19	-22.22	349.85	8.08	8.06	0.58
10,987.00	64.06	181.40	10,828.47	-390.82	-23.38	391.49	7.13	7.09	-0.87
11,034.00	66.30	182.07	10,848.20	-433.45	-24.68	434.14	4.94	4.77	1.43
11,081.00	69.44	182.95	10,865.90	-476.94	-26.59	477.67	6.90	6.68	1.87
11,129.00	73.72	183.33	10,881.06	-522.41	-29.08	523.20	8.95	8.92	0.79
11,176.00	78.11	183.46	10,892.50	-567.90	-31.78	568.77	9.34	9.34	0.28
11,177.00	78.19	183.46	10,892.70	-568.88	-31.84	569.75	7.69	7.68	-0.47
Hardline Crossing									
11,223.00	81.72	183.24	10,900.73	-614.09	-34.48	615.03	7.69	7.68	-0.47
11,266.00	85.69	182.83	10,905.44	-656.76	-36.75	657.77	9.28	9.23	-0.95
11,313.00	86.92	182.57	10,908.47	-703.61	-38.95	704.67	2.67	2.62	-0.55
11,407.00	86.86	184.01	10,913.57	-797.31	-44.34	798.52	1.53	-0.06	1.53
11,501.00	88.32	183.76	10,917.52	-891.01	-50.70	892.42	1.58	1.55	-0.27
11,595.00	88.93	183.61	10,919.78	-984.79	-56.74	986.38	0.67	0.65	-0.16
11,689.00	89.27	183.85	10,921.26	-1,078.58	-62.86	1,080.35	0.44	0.36	0.26
11,783.00	90.50	185.24	10,921.44	-1,172.28	-70.31	1,174.30	1.97	1.31	1.48
11,877.00	88.63	185.03	10,922.16	-1,265.90	-78.72	1,268.21	2.00	-1.99	-0.22
11,971.00	87.73	185.31	10,925.14	-1,359.47	-87.19	1,362.07	1.00	-0.96	0.30
12,065.00	88.32	184.43	10,928.38	-1,453.07	-95.16	1,455.95	1.13	0.63	-0.94
12,160.00	89.36	183.71	10,930.31	-1,547.81	-101.90	1,550.90	1.33	1.09	-0.76

Company: BC Operating, Inc.
Project: Lea County, NM (NAD27 NME)
Site: Chili Parlor 17 Federal
Well: #2H
Wellbore: OH / Job #60336
Design: Surveys (Patterson 244)

Local Co-ordinate Reference: Well #2H
TVD Reference: GL + KB @ 3620.50usft (Patterson 244)
MD Reference: GL + KB @ 3620.50usft (Patterson 244)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
12,253.00	89.86	181.28	10,930.94	-1,640.71	-105.95	1,643.89	2.67	0.54	-2.61
12,348.00	90.39	180.92	10,930.73	-1,735.69	-107.77	1,738.86	0.67	0.56	-0.38
12,442.00	90.34	181.40	10,930.13	-1,829.67	-109.68	1,832.82	0.51	-0.05	0.51
12,536.00	89.30	182.05	10,930.43	-1,923.63	-112.51	1,926.80	1.30	-1.11	0.69
12,630.00	88.96	182.47	10,931.86	-2,017.54	-116.21	2,020.79	0.57	-0.36	0.45
12,724.00	90.50	181.43	10,932.30	-2,111.48	-119.41	2,114.77	1.98	1.64	-1.11
12,818.00	89.69	181.90	10,932.14	-2,205.44	-122.14	2,208.76	1.00	-0.86	0.50
12,912.00	89.27	182.65	10,933.00	-2,299.36	-125.87	2,302.75	0.91	-0.45	0.80
13,006.00	89.94	181.38	10,933.64	-2,393.30	-129.18	2,396.74	1.53	0.71	-1.35
13,101.00	90.14	181.08	10,933.58	-2,488.28	-131.22	2,491.70	0.38	0.21	-0.32
13,195.00	89.64	180.73	10,933.76	-2,582.27	-132.70	2,585.65	0.65	-0.53	-0.37
13,289.00	90.95	180.60	10,933.27	-2,676.26	-133.79	2,679.59	1.40	1.39	-0.14
13,383.00	89.41	181.20	10,932.98	-2,770.24	-135.27	2,773.54	1.76	-1.64	0.64
13,477.00	90.98	180.86	10,932.66	-2,864.22	-136.96	2,867.49	1.71	1.67	-0.36
13,571.00	91.74	181.13	10,930.43	-2,958.18	-138.59	2,961.42	0.86	0.81	0.29
13,665.00	90.84	181.23	10,928.31	-3,052.14	-140.53	3,055.36	0.96	-0.96	0.11
13,760.00	90.73	181.57	10,927.01	-3,147.10	-142.85	3,150.33	0.38	-0.12	0.36
13,854.00	89.75	182.02	10,926.62	-3,241.05	-145.79	3,244.31	1.15	-1.04	0.48
13,948.00	89.52	181.86	10,927.22	-3,334.99	-148.97	3,338.30	0.30	-0.24	-0.17
14,043.00	91.04	182.88	10,926.75	-3,429.91	-152.90	3,433.30	1.93	1.60	1.07
14,137.00	90.22	183.78	10,925.72	-3,523.74	-158.36	3,527.28	1.30	-0.87	0.96
14,232.00	90.19	184.06	10,925.38	-3,618.52	-164.86	3,622.26	0.30	-0.03	0.29
14,326.00	89.50	184.35	10,925.63	-3,712.26	-171.75	3,716.23	0.80	-0.73	0.31
14,420.00	89.19	184.47	10,926.71	-3,805.98	-178.98	3,810.18	0.35	-0.33	0.13
14,514.00	89.19	183.11	10,928.04	-3,899.76	-185.19	3,904.16	1.45	0.00	-1.45
14,609.00	89.02	183.14	10,929.52	-3,994.61	-190.37	3,999.14	0.18	-0.18	0.03
14,703.00	90.76	182.01	10,929.70	-4,088.51	-194.59	4,093.14	2.21	1.85	-1.20
14,797.00	90.87	182.76	10,928.36	-4,182.42	-198.50	4,187.13	0.81	0.12	0.80
14,891.00	90.28	183.16	10,927.42	-4,276.29	-203.35	4,281.12	0.76	-0.63	0.43
14,986.00	89.83	183.48	10,927.33	-4,371.13	-208.86	4,376.11	0.58	-0.47	0.34
15,080.00	89.39	183.54	10,927.97	-4,464.95	-214.61	4,470.10	0.47	-0.47	0.06
15,174.00	89.39	182.96	10,928.97	-4,558.79	-219.94	4,564.09	0.62	0.00	-0.62
15,268.00	89.36	183.78	10,929.99	-4,652.62	-225.47	4,658.08	0.87	-0.03	0.87
15,362.00	89.02	183.27	10,931.32	-4,746.43	-231.24	4,752.06	0.65	-0.36	-0.54
15,456.00	87.57	183.56	10,934.12	-4,840.22	-236.84	4,846.01	1.57	-1.54	0.31
15,550.00	87.96	182.46	10,937.79	-4,934.02	-241.77	4,939.94	1.24	0.41	-1.17
15,644.00	87.43	182.01	10,941.57	-5,027.87	-245.44	5,033.86	0.74	-0.56	-0.48
15,739.00	86.44	182.49	10,946.65	-5,122.66	-249.16	5,128.72	1.16	-1.04	0.51
15,805.00	85.75	182.45	10,951.14	-5,188.45	-252.00	5,194.56	1.04	-1.04	-0.05
Hardline Crossing									
15,833.00	85.46	182.44	10,953.28	-5,216.34	-253.19	5,222.48	1.04	-1.04	-0.05
15,886.00	85.77	182.73	10,957.34	-5,269.13	-255.58	5,275.32	0.80	0.58	0.55
Final Phoenix MWD Survey									
15,945.00	85.77	182.73	10,961.69	-5,327.90	-258.38	5,334.16	0.00	0.00	0.00

Company: BC Operating, Inc.
Project: Lea County, NM (NAD27 NME)
Site: Chili Parlor 17 Federal
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Local Co-ordinate Reference: Well #2H
TVD Reference: GL + KB @ 3620.50usft (Patterson 244)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
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Projection to TD

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
781.00	780.94	-2.55	-4.38	Tie In
879.00	878.88	-4.05	-7.44	First Phoenix MWD Survey
11,177.00	10,892.70	-568.88	-31.84	Hardline Crossing
15,805.00	10,951.14	-5,188.45	-252.00	Hardline Crossing
15,886.00	10,957.34	-5,269.13	-255.58	Final Phoenix MWD Survey
15,945.00	10,961.69	-5,327.90	-258.38	Projection to TD

HOBBS OCD

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 30-025-43137	² Pool Code 51487	³ Pool Name Red Tank; Bone Spring, East
⁴ Property Code 313309	⁵ Property Name CHILI PARLOR 17 FEDERAL	⁶ Well Number 2H
⁷ OGRID No. 160825	⁸ Operator Name B.C. OPERATING, INC.	⁹ Elevation 3592

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	8	T22S	R33E		240'	SOUTH	360'	EAST	LEA

" 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
P	17	T22S	R33E		240'	SOUTH	660'	EAST	LEA

¹⁰ Dedicated Acres 160.00	¹¹ Joint or Infill	¹² Consolidation Code	¹³ 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.

SECTION 7	SECTION 8	SECTION 9	SECTION 16
SECTION 18	SECTION 17	SECTION 16	SECTION 16
SURFACE HOLE LOCATION NAD 83, SPCS NM EAST X:771623.59' / Y:509951.79' LAT:32.39971673N / LON:103.58819381W NAD 27, SPCS NM EAST X:730443.09' / Y:509891.16' LAT:32.39959341N / LON:103.58767087W		" 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. Pam Stevens 9/18/14 Signature Date Pam Stevens Printed Name ostevens@bcoperating.com E-mail Address	
FIRST TAKE POINT NAD 83, SPCS NM EAST X:771398.46' / Y:509382.64' LAT:32.39815289N / LON:103.58729457W NAD 27, SPCS NM EAST X:730415.93' / Y:509322.83' LAT:32.39802956N / LON:103.58680951W		" 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. SEPTEMBER 18, 2014 Date of Survey Signature and Seal of Professional Surveyor LLOYD P. SHORT 21653 Certificate Number LLOYD P. SHORT	
CORNER COORDINATES NAD 83, SPCS NM EAST A - Y: 509711.53' / X: 770671.07' B - Y: 509713.11' / X: 771987.19' C - Y: 504433.52' / X: 776036.20' D - Y: 504430.20' / X: 770718.23' NAD 27, SPCS NM EAST A - Y: 509650.91' / X: 729488.57' B - Y: 509652.49' / X: 730804.68' C - Y: 504373.05' / X: 730853.57' D - Y: 504369.73' / X: 729535.61'		SECTION 18	
LAST TAKE POINT NAD 83, SPCS NM EAST X:771378.25' / Y:504762.87' LAT:32.38533585N / LON:103.58762762W NAD 27, SPCS NM EAST X:730195.63' / Y:504702.39' LAT:32.38508851N / LON:103.58764356V		SECTION 19	
BOTTOM HOLE LOCATION NAD 83, SPCS NM EAST X:771373.96' / Y:504672.85' LAT:32.38521186N / LON:103.58812821W NAD 27, SPCS NM EAST X:730191.34' / Y:504612.38' LAT:32.38508851N / LON:103.58764356V		SECTION 20	
SECTION 18		SECTION 21	
SECTION 19		SECTION 21	

MAR 28 2016