

# Noble Energy Inc.- Weld County, CO (Grid North)

Well Name: **Chandler State D15-72-1HN**

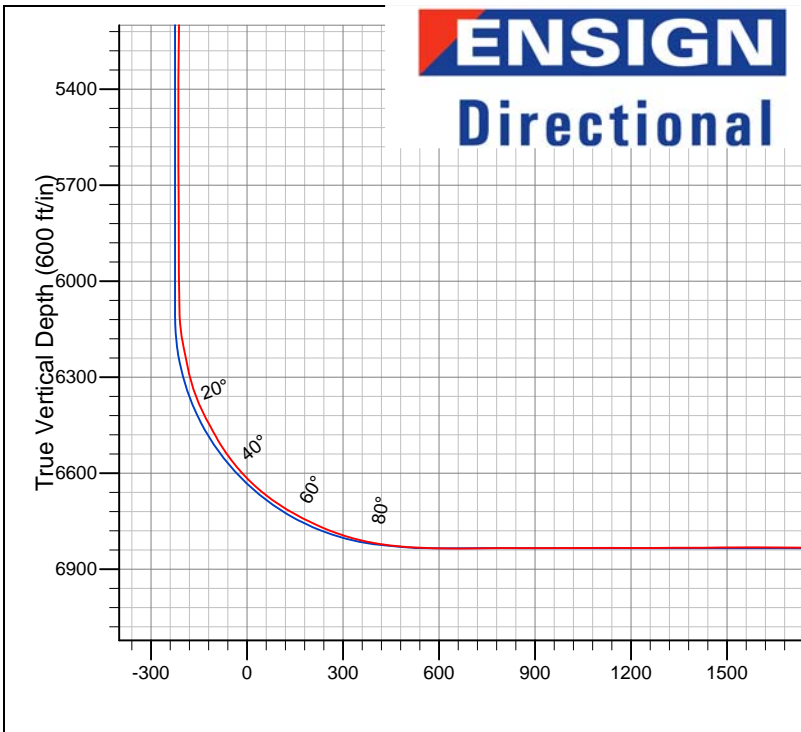
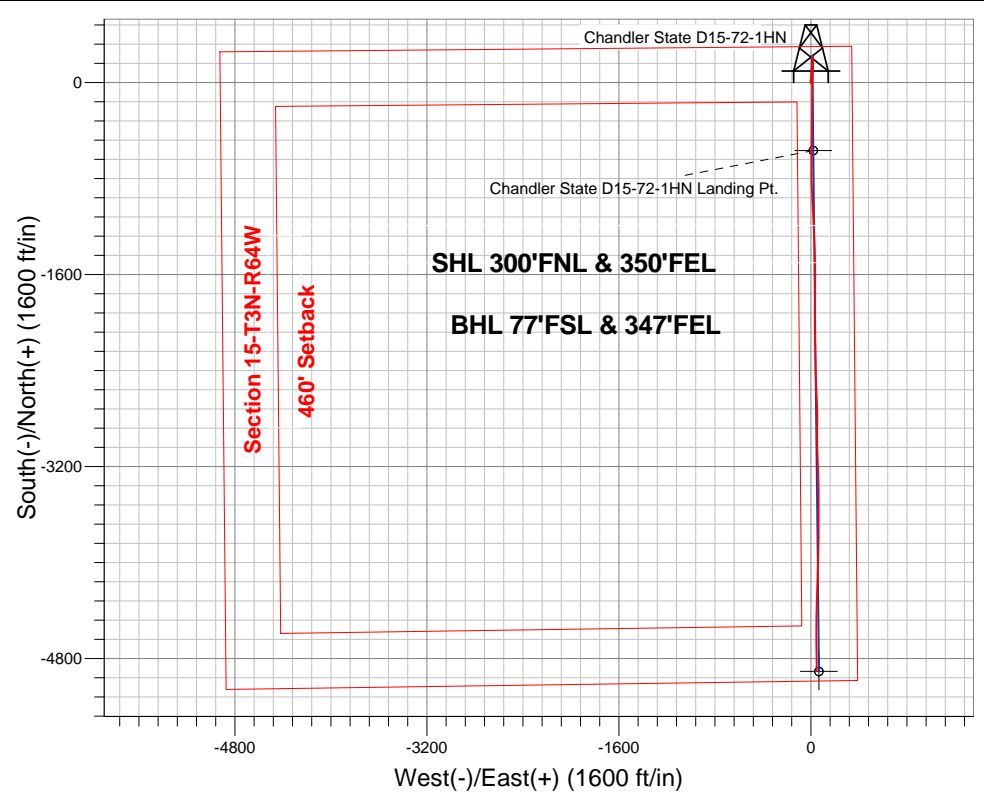
Surface Location: Chandler State D15-72-1HN Pad Sec.15-T3N-R64W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4786.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1328781.64	3271073.85	40.231830	-104.529090	

Precision 829 RKB - 16' WELL @ 4802.0ft (Precision 829 RKB - 16')

## FINAL SURVEY

Projected Bottom Hole Location  
 11640'MD 6833'TVD 4905'S & 48'E of SHL  
 90.2 degree Incl @ 178.79 degree AZM



Chandler State D15-72-1HN Pad Sec.15-T3N-R64W  
 Chandler State D15-72-1HN

8:48, April 28 2014  
 Wellbore #1

### ANNOTATIONS

No annotation data is available.

### LEGEND

- Chandler State D15-72-1HN, Wellbore #1, Plan A - Rev 0 V0
- Wellbore #1



# **Noble Energy Inc.- Weld County, CO (Grid North)**

**Sec.15-T3N-R64W**

**Chandler State D15-72-1HN Pad Sec.15-T3N-R64W**

**Chandler State D15-72-1HN**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**28 April, 2014**

<b>Company:</b>	Noble Energy Inc.- Weld County, CO (Grid North)	<b>Local Co-ordinate Reference:</b>	Well Chandler State D15-72-1HN
<b>Project:</b>	Sec.15-T3N-R64W	<b>TVD Reference:</b>	WELL @ 4802.0ft (Precision 829 RKB - 16')
<b>Site:</b>	Chandler State D15-72-1HN Pad Sec.15-T3N-R64W	<b>MD Reference:</b>	WELL @ 4802.0ft (Precision 829 RKB - 16')
<b>Well:</b>	Chandler State D15-72-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	Sec.15-T3N-R64W, Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	Chandler State D15-72-1HN Pad Sec.15-T3N-R64W				
<b>Site Position:</b>		<b>Northing:</b>	1,328,781.65ft	<b>Latitude:</b>	40.231830
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,271,073.85ft	<b>Longitude:</b>	-104.529090
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.63 °

<b>Well</b>	Chandler State D15-72-1HN					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,328,781.64 ft	<b>Latitude:</b>	40.231830
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,271,073.85 ft	<b>Longitude:</b>	-104.529090
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	4,786.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	3/5/2014	8.36	66.86	52,781

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	179.24	

<b>Survey Program</b>	Date 4/28/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
304.0	672.0	Surface (Wellbore #1)	Flexi-Shot	VES Flexi-Shot Tool
700.0	7,132.0	Intermediate-Curve (Wellbore #1)	MWD+IFR1+MS_WY	Fixed:v2:Rockies, crustal dec + 3-axis correction
7,214.0	11,640.0	Lateral (Wellbore #1)	MWD+IFR1+MS_WY	Fixed:v2:Rockies, crustal dec + 3-axis correction

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
304.0	0.50	146.67	304.0	-1.1	0.7	1.1	0.16	0.16	0.00	
672.0	0.40	67.17	672.0	-2.0	2.8	2.0	0.16	-0.03	-21.60	
700.0	0.10	322.00	700.0	-1.9	2.9	1.9	1.56	-1.07	-375.61	
790.0	0.20	298.60	790.0	-1.8	2.7	1.8	0.13	0.11	-26.00	
879.0	0.30	292.50	879.0	-1.6	2.3	1.6	0.12	0.11	-6.85	
969.0	0.30	302.30	969.0	-1.4	1.9	1.4	0.06	0.00	10.89	
1,059.0	0.40	310.40	1,059.0	-1.0	1.5	1.1	0.12	0.11	9.00	
1,230.0	0.40	308.10	1,230.0	-0.3	0.6	0.3	0.01	0.00	-1.35	

<b>Company:</b>	Noble Energy Inc.- Weld County, CO (Grid North)	<b>Local Co-ordinate Reference:</b>	Well Chandler State D15-72-1HN
<b>Project:</b>	Sec.15-T3N-R64W	<b>TVD Reference:</b>	WELL @ 4802.0ft (Precision 829 RKB - 16')
<b>Site:</b>	Chandler State D15-72-1HN Pad Sec.15-T3N-R64W	<b>MD Reference:</b>	WELL @ 4802.0ft (Precision 829 RKB - 16')
<b>Well:</b>	Chandler State D15-72-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,341.0	0.40	295.10	1,341.0	0.1	-0.1	-0.1	0.08	0.00	-11.71	
1,431.0	0.40	289.30	1,431.0	0.3	-0.7	-0.4	0.04	0.00	-6.44	
1,521.0	0.60	299.50	1,521.0	0.7	-1.4	-0.7	0.24	0.22	11.33	
1,610.0	0.70	289.30	1,610.0	1.1	-2.3	-1.1	0.17	0.11	-11.46	
1,700.0	0.70	286.90	1,700.0	1.4	-3.4	-1.5	0.03	0.00	-2.67	
1,790.0	1.50	346.60	1,789.9	2.7	-4.2	-2.8	1.44	0.89	66.33	
1,880.0	2.90	348.70	1,879.9	6.1	-4.9	-6.2	1.56	1.56	2.33	
1,969.0	3.30	6.70	1,968.7	10.9	-5.0	-10.9	1.18	0.45	20.22	
2,059.0	4.70	14.40	2,058.5	17.0	-3.8	-17.1	1.66	1.56	8.56	
2,149.0	4.00	14.20	2,148.3	23.6	-2.1	-23.7	0.78	-0.78	-0.22	
2,238.0	5.50	7.00	2,237.0	30.9	-0.8	-30.9	1.81	1.69	-8.09	
2,328.0	5.20	6.90	2,326.6	39.2	0.2	-39.2	0.33	-0.33	-0.11	
2,418.0	5.40	8.60	2,416.2	47.4	1.3	-47.4	0.28	0.22	1.89	
2,507.0	4.70	9.00	2,504.8	55.2	2.5	-55.1	0.79	-0.79	0.45	
2,597.0	4.20	7.40	2,594.6	62.1	3.5	-62.0	0.57	-0.56	-1.78	
2,687.0	4.20	5.60	2,684.3	68.6	4.3	-68.6	0.15	0.00	-2.00	
2,776.0	4.40	5.40	2,773.1	75.3	4.9	-75.2	0.23	0.22	-0.22	
2,866.0	4.30	3.90	2,862.8	82.1	5.4	-82.0	0.17	-0.11	-1.67	
2,956.0	4.10	5.10	2,952.6	88.7	6.0	-88.6	0.24	-0.22	1.33	
3,045.0	3.60	10.50	3,041.4	94.6	6.8	-94.5	0.69	-0.56	6.07	
3,135.0	3.30	11.60	3,131.2	99.9	7.8	-99.8	0.34	-0.33	1.22	
3,225.0	3.80	359.80	3,221.0	105.4	8.3	-105.3	0.98	0.56	-13.11	
3,314.0	3.10	7.90	3,309.9	110.7	8.6	-110.6	0.96	-0.79	9.10	
3,404.0	2.30	16.70	3,399.8	114.9	9.5	-114.7	1.00	-0.89	9.78	
3,494.0	2.60	3.90	3,489.7	118.6	10.1	-118.5	0.69	0.33	-14.22	
3,583.0	3.10	1.60	3,578.6	123.1	10.3	-122.9	0.58	0.56	-2.58	
3,673.0	1.80	8.60	3,668.5	126.9	10.6	-126.7	1.48	-1.44	7.78	
3,762.0	3.10	359.80	3,757.4	130.7	10.8	-130.5	1.52	1.46	-9.89	
3,852.0	4.70	356.30	3,847.2	136.8	10.6	-136.6	1.80	1.78	-3.89	
3,942.0	4.60	357.50	3,936.9	144.1	10.2	-143.9	0.16	-0.11	1.33	
4,031.0	4.00	2.60	4,025.7	150.8	10.2	-150.6	0.80	-0.67	5.73	
4,121.0	3.40	16.90	4,115.5	156.4	11.1	-156.3	1.22	-0.67	15.89	
4,211.0	3.20	24.80	4,205.3	161.3	12.9	-161.1	0.55	-0.22	8.78	
4,300.0	4.70	15.10	4,294.1	167.1	14.9	-166.8	1.84	1.69	-10.90	
4,390.0	4.80	2.60	4,383.8	174.4	16.0	-174.1	1.15	0.11	-13.89	
4,480.0	4.70	8.10	4,473.5	181.8	16.7	-181.5	0.52	-0.11	6.11	
4,570.0	4.00	4.90	4,563.2	188.6	17.5	-188.3	0.82	-0.78	-3.56	
4,659.0	3.30	351.60	4,652.1	194.2	17.4	-193.9	1.23	-0.79	-14.94	
4,749.0	2.60	348.70	4,741.9	198.8	16.6	-198.5	0.80	-0.78	-3.22	
4,839.0	2.10	354.20	4,831.9	202.4	16.1	-202.2	0.61	-0.56	6.11	
4,929.0	1.80	355.60	4,921.8	205.4	15.8	-205.2	0.34	-0.33	1.56	
5,018.0	1.80	357.40	5,010.8	208.2	15.6	-208.0	0.06	0.00	2.02	
5,108.0	1.30	355.80	5,100.7	210.7	15.5	-210.4	0.56	-0.56	-1.78	
5,198.0	1.10	2.50	5,190.7	212.5	15.4	-212.3	0.27	-0.22	7.44	
5,287.0	0.80	11.20	5,279.7	214.0	15.6	-213.8	0.37	-0.34	9.78	
5,377.0	0.40	324.50	5,369.7	214.9	15.5	-214.7	0.67	-0.44	-51.89	
5,466.0	0.40	270.20	5,458.7	215.1	15.0	-214.9	0.41	0.00	-61.01	
5,556.0	0.40	264.20	5,548.7	215.1	14.4	-214.9	0.05	0.00	-6.67	
5,645.0	0.30	234.80	5,637.7	214.9	13.9	-214.7	0.23	-0.11	-33.03	
5,735.0	0.40	200.70	5,727.7	214.5	13.6	-214.3	0.25	0.11	-37.89	
5,824.0	0.40	211.80	5,816.7	214.0	13.3	-213.8	0.09	0.00	12.47	
5,914.0	0.40	205.00	5,906.7	213.4	13.0	-213.2	0.05	0.00	-7.56	

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<b>Well:</b>	Chandler State D15-72-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,004.0	0.40	199.10	5,996.7	212.8	12.8	-212.6	0.05	0.00	-6.56
6,049.0	0.50	193.20	6,041.7	212.5	12.7	-212.3	0.24	0.22	-13.11
6,094.0	0.90	173.10	6,086.7	211.9	12.7	-211.8	1.03	0.89	-44.67
6,139.0	5.00	174.70	6,131.6	209.6	12.9	-209.4	9.11	9.11	3.56
6,184.0	9.40	175.80	6,176.2	204.0	13.4	-203.8	9.78	9.78	2.44
6,228.0	11.70	176.50	6,219.5	196.0	13.9	-195.8	5.24	5.23	1.59
6,273.0	11.00	175.40	6,263.6	187.1	14.5	-186.9	1.63	-1.56	-2.44
6,318.0	15.10	177.90	6,307.4	177.0	15.1	-176.8	9.19	9.11	5.56
6,363.0	19.80	179.80	6,350.4	163.5	15.3	-163.3	10.52	10.44	4.22
6,408.0	24.30	180.50	6,392.1	146.6	15.3	-146.4	10.02	10.00	1.56
6,453.0	27.70	180.90	6,432.5	126.9	15.0	-126.7	7.57	7.56	0.89
6,498.0	28.90	180.70	6,472.1	105.6	14.7	-105.4	2.67	2.67	-0.44
6,543.0	31.80	181.10	6,510.9	82.8	14.4	-82.6	6.46	6.44	0.89
6,587.0	36.60	183.20	6,547.3	58.1	13.4	-58.0	11.23	10.91	4.77
6,632.0	39.90	184.70	6,582.7	30.4	11.5	-30.2	7.62	7.33	3.33
6,677.0	43.80	183.30	6,616.2	0.4	9.4	-0.3	8.91	8.67	-3.11
6,721.0	48.70	180.70	6,646.6	-31.3	8.3	31.4	11.92	11.14	-5.91
6,766.0	53.60	179.50	6,674.8	-66.4	8.3	66.5	11.08	10.89	-2.67
6,811.0	57.20	179.80	6,700.4	-103.4	8.5	103.5	8.02	8.00	0.67
6,855.0	60.40	178.90	6,723.2	-141.0	8.9	141.1	7.48	7.27	-2.05
6,900.0	62.90	179.10	6,744.5	-180.6	9.6	180.7	5.57	5.56	0.44
6,945.0	65.20	180.00	6,764.2	-221.1	9.9	221.2	5.42	5.11	2.00
6,990.0	69.70	180.90	6,781.5	-262.6	9.6	262.7	10.17	10.00	2.00
7,035.0	72.20	181.40	6,796.2	-305.2	8.8	305.2	5.65	5.56	1.11
7,079.0	76.30	181.60	6,808.1	-347.5	7.7	347.6	9.33	9.32	0.45
7,132.0	80.00	181.20	6,819.0	-399.3	6.4	399.4	7.02	6.98	-0.75
7,214.0	85.30	180.73	6,829.5	-480.6	5.0	480.6	6.49	6.46	-0.57
7,245.0	86.10	180.64	6,831.8	-511.5	4.7	511.5	2.60	2.58	-0.29
7,276.0	87.40	180.60	6,833.5	-542.5	4.3	542.5	4.20	4.19	-0.13
7,299.3	88.08	180.42	6,834.5	-565.8	4.1	565.8	3.00	2.90	-0.77
<b>Chandler State D15-72-1HN Landing Pt.</b>									
7,307.0	88.30	180.36	6,834.7	-573.5	4.1	573.5	3.00	2.90	-0.77
7,352.0	89.50	180.28	6,835.6	-618.4	3.8	618.4	2.67	2.67	-0.18
7,441.0	91.00	179.97	6,835.2	-707.4	3.6	707.4	1.72	1.69	-0.35
7,531.0	90.40	179.19	6,834.1	-797.4	4.3	797.4	1.09	-0.67	-0.87
7,621.0	89.20	177.44	6,834.4	-887.4	6.9	887.4	2.36	-1.33	-1.94
7,710.0	90.90	176.96	6,834.3	-976.3	11.3	976.3	1.98	1.91	-0.54
7,800.0	90.20	177.15	6,833.5	-1,066.1	15.9	1,066.3	0.81	-0.78	0.21
7,889.0	89.30	177.33	6,833.8	-1,155.0	20.2	1,155.2	1.03	-1.01	0.20
7,979.0	90.70	177.01	6,833.8	-1,244.9	24.6	1,245.1	1.60	1.56	-0.36
8,069.0	89.80	177.84	6,833.5	-1,334.8	28.7	1,335.1	1.36	-1.00	0.92
8,159.0	90.20	179.25	6,833.5	-1,424.8	30.9	1,425.1	1.63	0.44	1.57
8,248.0	91.20	179.15	6,832.4	-1,513.8	32.2	1,514.1	1.13	1.12	-0.11
8,338.0	89.20	180.15	6,832.0	-1,603.8	32.7	1,604.1	2.48	-2.22	1.11
8,427.0	89.80	179.90	6,832.8	-1,692.8	32.7	1,693.1	0.73	0.67	-0.28
8,517.0	89.00	180.52	6,833.8	-1,782.8	32.4	1,783.0	1.12	-0.89	0.69
8,607.0	89.80	180.24	6,834.7	-1,872.8	31.8	1,873.0	0.94	0.89	-0.31
8,696.0	90.60	180.03	6,834.4	-1,961.8	31.6	1,962.0	0.93	0.90	-0.24
8,786.0	89.50	179.73	6,834.3	-2,051.8	31.8	2,052.0	1.27	-1.22	-0.33
8,876.0	90.20	178.82	6,834.6	-2,141.8	32.9	2,142.0	1.28	0.78	-1.01
8,965.0	91.20	179.04	6,833.5	-2,230.7	34.6	2,231.0	1.15	1.12	0.25
9,055.0	92.10	178.79	6,830.9	-2,320.7	36.3	2,321.0	1.04	1.00	-0.28

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<b>Project:</b>	Sec.15-T3N-R64W	<b>TVD Reference:</b>	WELL @ 4802.0ft (Precision 829 RKB - 16')
<b>Site:</b>	Chandler State D15-72-1HN Pad Sec.15-T3N-R64W	<b>MD Reference:</b>	WELL @ 4802.0ft (Precision 829 RKB - 16')
<b>Well:</b>	Chandler State D15-72-1HN	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,144.0	90.50	178.41	6,828.9	-2,409.6	38.4	2,409.9	1.85	-1.80	-0.43	
9,234.0	89.00	176.89	6,829.3	-2,499.5	42.1	2,499.9	2.37	-1.67	-1.69	
9,324.0	89.40	177.91	6,830.5	-2,589.4	46.2	2,589.8	1.22	0.44	1.13	
9,413.0	88.90	178.22	6,831.8	-2,678.4	49.2	2,678.8	0.66	-0.56	0.35	
9,503.0	89.00	179.06	6,833.5	-2,768.3	51.3	2,768.8	0.94	0.11	0.93	
9,593.0	90.60	180.35	6,833.8	-2,858.3	51.8	2,858.8	2.28	1.78	1.43	
9,682.0	89.50	180.14	6,833.7	-2,947.3	51.4	2,947.7	1.26	-1.24	-0.24	
9,772.0	90.10	179.29	6,834.0	-3,037.3	51.9	3,037.7	1.16	0.67	-0.94	
9,862.0	90.40	178.23	6,833.6	-3,127.3	53.8	3,127.7	1.22	0.33	-1.18	
9,951.0	88.40	177.64	6,834.6	-3,216.2	57.0	3,216.7	2.34	-2.25	-0.66	
10,041.0	89.50	177.26	6,836.2	-3,306.1	61.0	3,306.6	1.29	1.22	-0.42	
10,130.0	90.30	179.32	6,836.4	-3,395.1	63.7	3,395.6	2.48	0.90	2.31	
10,220.0	89.80	180.19	6,836.3	-3,485.1	64.1	3,485.6	1.11	-0.56	0.97	
10,310.0	89.20	180.01	6,837.1	-3,575.1	63.9	3,575.6	0.70	-0.67	-0.20	
10,400.0	90.80	180.30	6,837.1	-3,665.1	63.7	3,665.6	1.81	1.78	0.32	
10,489.0	90.80	180.95	6,835.8	-3,754.1	62.7	3,754.6	0.73	0.00	0.73	
10,579.0	91.30	180.83	6,834.2	-3,844.0	61.3	3,844.5	0.57	0.56	-0.13	
10,669.0	90.30	181.17	6,832.9	-3,934.0	59.7	3,934.5	1.17	-1.11	0.38	
10,758.0	89.30	181.45	6,833.2	-4,023.0	57.7	4,023.4	1.17	-1.12	0.31	
10,848.0	90.10	181.94	6,833.7	-4,112.9	55.0	4,113.3	1.04	0.89	0.54	
10,938.0	91.10	181.84	6,832.8	-4,202.9	52.1	4,203.2	1.12	1.11	-0.11	
11,027.0	90.30	182.41	6,831.7	-4,291.8	48.8	4,292.1	1.10	-0.90	0.64	
11,117.0	89.10	181.19	6,832.2	-4,381.8	45.9	4,382.0	1.90	-1.33	-1.36	
11,207.0	89.80	180.64	6,833.0	-4,471.8	44.5	4,471.9	0.99	0.78	-0.61	
11,296.0	90.80	180.10	6,832.6	-4,560.7	43.9	4,560.9	1.28	1.12	-0.61	
11,386.0	89.10	179.38	6,832.6	-4,650.7	44.3	4,650.9	2.05	-1.89	-0.80	
11,476.0	89.90	179.51	6,833.4	-4,740.7	45.2	4,740.9	0.90	0.89	0.14	
11,578.0	90.20	178.79	6,833.3	-4,842.7	46.7	4,842.9	0.76	0.29	-0.71	
11,640.0	90.20	178.79	6,833.1	-4,904.7	48.0	4,904.9	0.00	0.00	0.00	
<b>Chandler State D15-72-1HN BHL 75'FSL &amp; 330'FEL</b>										

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_