

Angie Galvan

From: Angie Galvan <Angie.Galvan@stxra.com>
Sent: Tuesday, July 02, 2013 3:54 PM
To: 'craig.wiest@crzo.net'
Cc: Sean Fitzgerald; richard.wilde@stxra.com
Subject: Request for Waiver- Exception Location under Rule 318.c.
Attachments: Location Waiver_Mailed.PDF

Mr. Wiest,

I have attached for your immediate review a location waiver request on behalf of Condor Energy Technology LLC. The request is accompanied by a directional survey to show you exactly where the well is located. The same request has been mailed via USPS overnight as of yesterday. Please feel free to contact me with any questions or concerns.

Thank you,

Angie Galvan
Regulatory Analyst
South Texas Reservoir Alliance LLC
www.stxra.com
Phone: 281-716-5730
Fax: 281-815-2882

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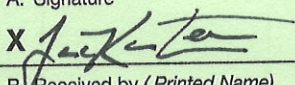
HOUSTON TX 77002

Postage	\$ 11.32
Certified Fee	\$3.10
Return Receipt Fee (Endorsement Required)	\$2.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 16.92

Sent To: **CARRIZO OIL & GAS**
 Street, Apt. No.,
 or PO Box No. **500 DALLAS ST., STE 2300**
 City, State, ZIP+4 **HOUSTON, TX 77002**

PS Form 3800, August 2006 See Reverse for Instructions

7013 0600 0001 6786 7932

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature  <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) Jared Koster</p> <p>C. Date of Delivery 7/2/2013</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Carrizo Oil & Gas, Inc. Attn: Craig Wiest 500 Dallas Street, Suite 2300 Houston, TX 77002</p>	<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7013 0600 0001 6786 7932</p>
PS Form 3811, February 2004	Domestic Return Receipt 102595-02-M-1540



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DATE & TIME

July 2, 2013, 11:08 am

LOCATION

HOUSTON, TX 77002

FEATURES

Guaranteed By:
July 2, 2013, 12:00 pm
PO to Addressee
Proof of Delivery

Out for Delivery

July 2, 2013, 8:50 am

HOUSTON, TX 77002

Sorting Complete

July 2, 2013, 8:40 am

HOUSTON, TX 77002

Arrival at Post Office

July 2, 2013, 8:23 am

HOUSTON, TX 77002

Depart USPS Sort
Facility

July 2, 2013

HOUSTON, TX 77201

Processed at USPS
Origin Sort Facility

July 1, 2013, 10:55 pm

HOUSTON, TX 77201

Depart USPS Sort
Facility

July 1, 2013

NORTH
HOUSTON, TX 77315Processed at USPS
Origin Sort Facility

July 1, 2013, 7:21 pm

NORTH
HOUSTON, TX 77315Dispatched to Sort
Facility

July 1, 2013, 6:13 pm

HOUSTON, TX 77055

Acceptance

July 1, 2013, 4:20 pm

HOUSTON, TX 77055

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Date Accepted 7-13	Scheduled Date of Delivery Month 7 Day 2	Return Receipt Fee \$
Time Accepted 4:20 PM	Scheduled Time of Delivery Noon <input type="checkbox"/> 3 PM <input type="checkbox"/> Military <input type="checkbox"/>	GOD Fee \$
Flat Rate <input type="checkbox"/> or Weight 4 lbs. 0 ozs.	Int'l Alpha Country Code	Insurance Fee \$
		Total Postage & Fees \$ 19.95
		Acceptance Emp. Initials CB

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Delivery Attempt	Time	<input type="checkbox"/> AM <input type="checkbox"/> PM	Employee Signature
Mo. Day			
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Mo. Day			
Delivery Date	Time	<input type="checkbox"/> AM <input type="checkbox"/> PM	Employee Signature
Mo. Day			

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Mailer Signature

FROM: (PLEASE PRINT) PHONE () _____

CONDOR ENERGY TECHNOLOGY
C/O STARA
1416 CAMPBELL BUILDING B
STE 208
HOUSTON, TX 77055

TO: (PLEASE PRINT) PHONE () _____

CARRIZO OIL & GAS, INC.
ATTN: CRAIG WHEAT
500 DALLAS STREET, STE 2300
HOUSTON, TX 77002

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VIA EMAIL AND CERTIFIED MAIL – RETURN ADDRESS REQUESTED

Carrizo Oil & Gas, Inc.
ATTN: Craig Wiest
500 Dallas Street, Suite 2300
Houston, TX 77002

**RE: Request for Waiver – Exception Location under Rule 318.c.
Condor Energy Technology LLC
State 16-7-60 Well – Horizontal Well
Section 16, Township 7 North, Range 60 West, 6th P.M.
Weld County, Colorado**

Dear Craig,

Please be advised that Condor Energy Technology LLC (“Condor”) is requesting an exception location from the Colorado Oil and Gas Conservation Commission (“Commission”) for the State 16-7-60 Well (“Well”). The Well is a horizontal well which Condor is currently drilling on the above-referenced lands, which are unspaced and subject to Rule 318.a., and intends to complete for production from the Niobrara Formation with a surface location 300’ FSL 750’ FWL in the SWSW of Section 16, Township 7 North, Range 60 West, Weld County, Colorado. Condor is seeking an exception location for the Well because a non-perforated portion of the wellbore fall approximately 548’ within the Rule 318.a. setback of 600’ from a lease line. *See Commission Rule 318.a. for the 600’ setback for unspaced lands.* Please see the attached directional survey showing the proposed exception location.

Condor confirms that it does not intend to perforate or treat the wellbore within the 600’ setback and further confirms that it will only perforate or treat the wellbore more than 600’ away from the lease line at issue.

The purpose of this letter is to notify you of Condor’s intent to request the exception location from the Commission and to respectfully request a waiver from you, as a lessee of the lease upon which the Well is encroaching upon, pursuant to Commission Rule 318.c. Time is of the essence in this matter and it is requested that you sign and return this letter/waiver in the enclosed envelope to my attention as soon as possible, but no later than within twenty (20) days of the date of this letter. If we have received your executed response to this letter, or if we have not heard from you within twenty (20) days, Condor will continue to proceed with the permitting procedure requesting an exception location and variance under Commission Rule 502.b.

If you have any questions regarding this matter, please contact Angie Galvan or her manager Sean Fitzgerald, representatives of Condor at (281) 716-5730 or Angie.Galvan@stxra.com. Thank you in advance for your cooperation.

Condor Representatives:

Angie Galvan, Royalty and Working Interest Owner Affairs or her manager Sean Fitzgerald;
Office Phone; 281-716-5730
Business Hours: 9 AM – 5 PM Central Time Monday through Friday
Email: Angie.Galvan@stxra.com

Mail Correspondance to:

Condor Energy Technology, LLC
c/o STXRA
1416 Campbell Building B
Suite 208
Houston, TX 77055

Sincerely,



Sean Fitzgerald
Condor Energy Technology LLC

I/We, _____ of Carrizo Oil & Gas, Inc.,
as the offset lessee, waive any objection to the location of the aforementioned Well and
acknowledge that the Well shall be located no closer than 548' from the above-referenced lease
line.

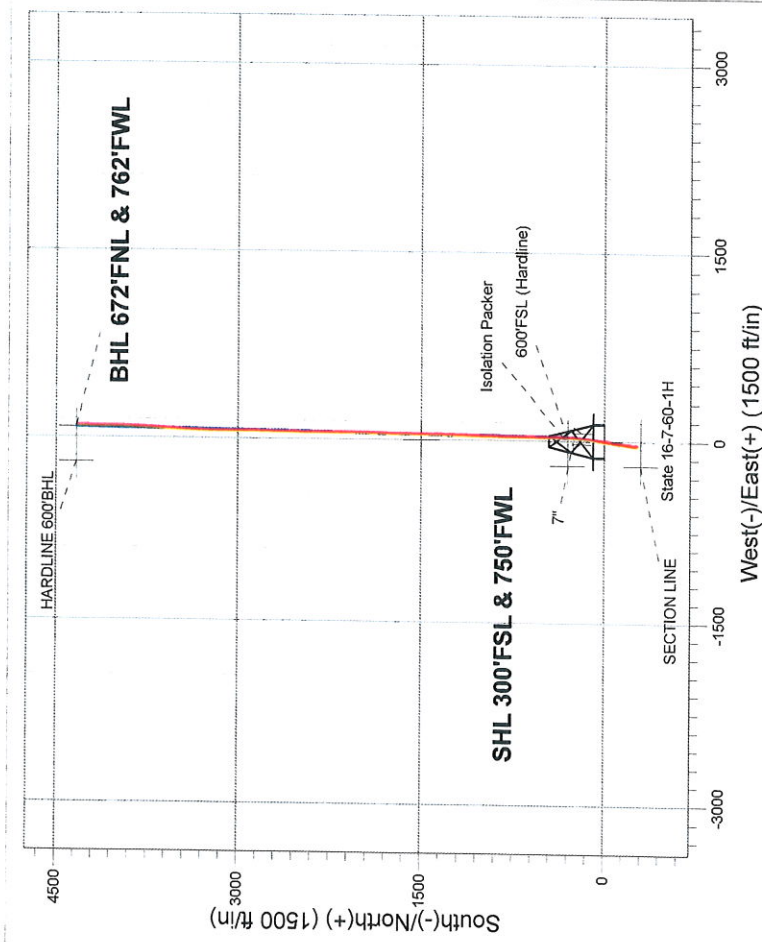
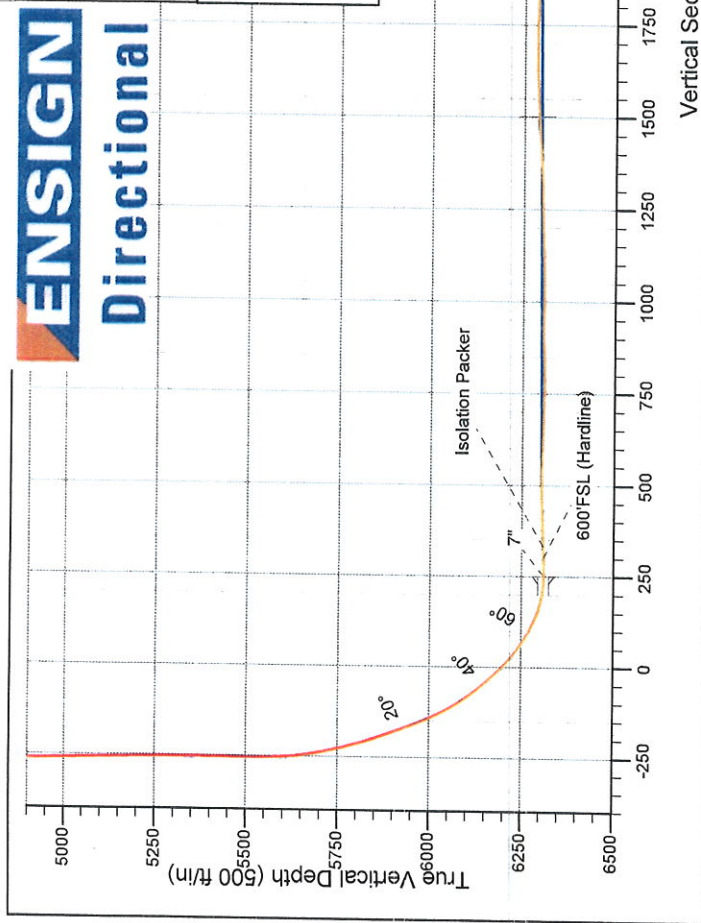
Name
Title: _____
Date: _____

Condor Energy

Well Name: State 16-7-60-1H				
Surface Location: State 16-7-60-1H Pad Sec.16-T7N-R60W				
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone				
Ground Elevation: 4886.1				
+N/-S	+E/-W	Northing	Easting	Latitude
0.0	0.0	1453076.52	3387458.40	40.568730
		Longitude		Slot
		-104.105290		
RKB - 18.5' WELL @ 4904.6ft (RKB - 18.5')				

SURVEY

Projected Bottom Hole Location
 10632'MD 6291'TVD 4319'N & 95'E of SHL
 90.3 degree Incl @ 0.20 degree AZM



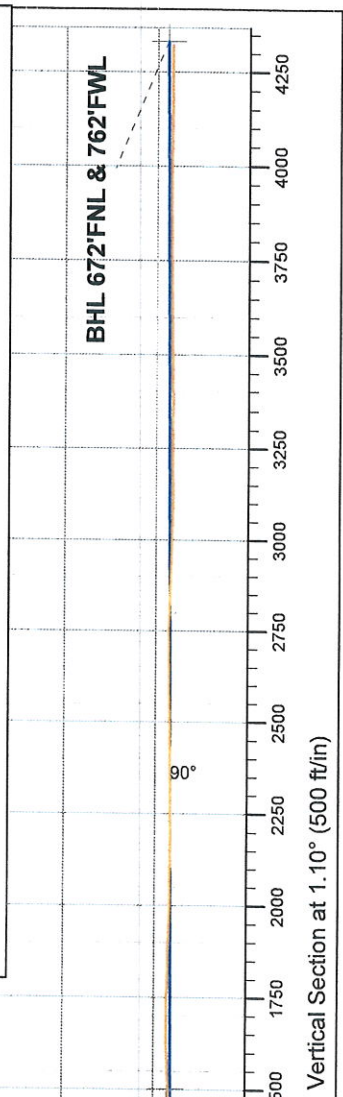
State 16-7-60-1H Pad Sec.16-T7N-R60W
 State 16-7-60-1H
 Wellbore #1
 11:54, July 01 2013

ANNOTATIONS

TVD	MD	Annotation
6310.3	6611.0	600'FSL (Hardline)
6309.7	6642.0	Isolation Packer

LEGEND

- State 16-7-60-1H, Wellbore #1, Plan #9 (6-21-13) V0
- Wellbore #1





Condor Energy

SEC.16-T7N-R60W

State 16-7-60-1H Pad Sec.16-T7N-R60W

State 16-7-60-1H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

01 July, 2013

Company:	Condor Energy	Local Co-ordinate Reference:	Well State 16-7-60-1H
Project:	SEC.16-T7N-R60W	TVD Reference:	WELL @ 4904.6ft (RKB - 18.5')
Site:	State 16-7-60-1H Pad Sec.16-T7N-R60W	MD Reference:	WELL @ 4904.6ft (RKB - 18.5')
Well:	State 16-7-60-1H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.16-T7N-R60W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	State 16-7-60-1H Pad Sec.16-T7N-R60W		
Site Position:		Northing:	1,456,749.30 ft
From:	Lat/Long	Easting:	3,386,997.80 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.578830
		Longitude:	-104.106740
		Grid Convergence:	0.90 °

Well	State 16-7-60-1H		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.568730
		Longitude:	-104.105290
		Ground Level:	4,886.1 ft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/21/2013	8.25	67.22	53,074

Design	Wellbore #1		
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Audit Notes:			
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Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	1.10

Survey Program		Date	7/1/2013	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
222.0	10,632.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
0.4	0.00	137.60	0.4	0.0	0.0	0.0	0.00	0.00	0.00
HARDLINE 600'SHL - HARDLINE 600'BHL									
1.0	0.00	137.60	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 300'FSL & 750'FWL									
1.2	0.00	137.60	1.2	0.0	0.0	0.0	0.00	0.00	0.00
SECTION LINE									
222.0	0.20	137.60	222.0	-0.3	0.3	-0.3	0.09	0.09	0.00
499.0	0.20	192.30	499.0	-1.1	0.5	-1.1	0.07	0.00	19.75
722.0	0.40	215.10	722.0	-2.1	0.0	-2.1	0.10	0.09	10.22
975.0	0.60	222.00	975.0	-3.8	-1.4	-3.9	0.08	0.08	2.73
1,187.0	0.40	258.60	1,187.0	-4.8	-2.9	-4.9	0.17	-0.09	17.26
1,231.0	0.40	249.40	1,231.0	-4.9	-3.2	-5.0	0.15	0.00	-20.91

Company: Condor Energy
Project: SEC.16-T7N-R60W
Site: State 16-7-60-1H Pad Sec.16-T7N-R60W
Well: State 16-7-60-1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well State 16-7-60-1H
TVD Reference: WELL @ 4904.6ft (RKB - 18.5')
MD Reference: WELL @ 4904.6ft (RKB - 18.5')
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: 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)
1,291.0	0.40	253.10	1,291.0	-5.0	-3.6	-5.1	0.04	0.00	6.17
1,380.0	0.40	302.30	1,380.0	-5.0	-4.2	-5.0	0.37	0.00	55.28
1,470.0	0.50	317.40	1,470.0	-4.5	-4.7	-4.6	0.17	0.11	16.78
1,560.0	0.60	324.50	1,560.0	-3.8	-5.2	-3.9	0.13	0.11	7.89
1,658.0	0.30	240.60	1,658.0	-3.5	-5.8	-3.6	0.65	-0.31	-85.61
1,750.0	0.60	180.20	1,750.0	-4.1	-6.0	-4.2	0.57	0.33	-65.65
1,844.0	1.20	142.50	1,844.0	-5.4	-5.4	-5.5	0.86	0.64	-40.11
1,937.0	1.00	136.40	1,936.9	-6.8	-4.2	-6.8	0.25	-0.22	-6.56
2,030.0	1.80	146.40	2,029.9	-8.6	-2.8	-8.6	0.90	0.86	10.75
2,125.0	2.30	183.50	2,124.8	-11.7	-2.1	-11.8	1.46	0.53	39.05
2,220.0	3.90	179.10	2,219.7	-16.8	-2.2	-16.9	1.70	1.68	-4.63
2,312.0	5.20	190.40	2,311.4	-24.1	-2.9	-24.1	1.71	1.41	12.28
2,406.0	5.50	192.80	2,405.0	-32.7	-4.7	-32.7	0.40	0.32	2.55
2,499.0	5.20	201.40	2,497.6	-40.9	-7.2	-41.1	0.92	-0.32	9.25
2,591.0	6.50	195.30	2,589.1	-49.8	-10.1	-50.0	1.56	1.41	-6.63
2,685.0	6.20	195.50	2,682.5	-59.9	-12.9	-60.1	0.32	-0.32	0.21
2,779.0	6.90	195.50	2,775.9	-70.2	-15.7	-70.5	0.74	0.74	0.00
2,871.0	6.30	186.70	2,867.3	-80.5	-17.8	-80.9	1.28	-0.65	-9.57
2,964.0	5.80	183.90	2,959.8	-90.3	-18.7	-90.6	0.62	-0.54	-3.01
3,058.0	6.00	181.00	3,053.3	-99.9	-19.1	-100.3	0.38	0.21	-3.09
3,151.0	5.90	182.30	3,145.8	-109.6	-19.4	-109.9	0.18	-0.11	1.40
3,245.0	5.90	182.10	3,239.3	-119.2	-19.8	-119.6	0.02	0.00	-0.21
3,339.0	7.50	186.70	3,332.7	-130.2	-20.6	-130.5	1.79	1.70	4.89
3,434.0	7.60	190.00	3,426.8	-142.5	-22.5	-142.9	0.47	0.11	3.47
3,528.0	7.70	189.80	3,520.0	-154.8	-24.6	-155.3	0.11	0.11	-0.21
3,621.0	7.50	181.20	3,612.2	-167.0	-25.8	-167.5	1.24	-0.22	-9.25
3,716.0	6.20	188.10	3,706.5	-178.3	-26.7	-178.8	1.62	-1.37	7.26
3,807.0	6.90	186.10	3,796.9	-188.6	-27.9	-189.1	0.81	0.77	-2.20
3,901.0	6.80	183.50	3,890.2	-199.8	-28.9	-200.3	0.35	-0.11	-2.77
3,995.0	6.70	191.90	3,983.6	-210.7	-30.3	-211.2	1.05	-0.11	8.94
4,089.0	6.60	191.60	4,077.0	-221.4	-32.6	-221.9	0.11	-0.11	-0.32
4,182.0	4.80	179.30	4,169.5	-230.5	-33.6	-231.1	2.33	-1.94	-13.23
4,277.0	5.20	177.50	4,264.1	-238.8	-33.3	-239.4	0.45	0.42	-1.89
4,371.0	4.40	183.20	4,357.8	-246.6	-33.4	-247.2	0.99	-0.85	6.06
4,465.0	3.20	163.30	4,451.6	-252.7	-32.8	-253.3	1.88	-1.28	-21.17
4,559.0	2.60	197.60	4,545.5	-257.3	-32.7	-257.9	1.92	-0.64	36.49
4,653.0	1.80	222.50	4,639.4	-260.4	-34.3	-261.0	1.31	-0.85	26.49
4,748.0	1.50	271.90	4,734.4	-261.5	-36.6	-262.1	1.48	-0.32	52.00
4,842.0	1.50	267.40	4,828.4	-261.5	-39.1	-262.2	0.13	0.00	-4.79
4,935.0	1.50	343.60	4,921.3	-260.4	-40.6	-261.1	1.99	0.00	81.94
5,029.0	1.70	345.40	5,015.3	-257.8	-41.3	-258.6	0.22	0.21	1.91
5,123.0	1.00	328.50	5,109.3	-255.8	-42.1	-256.5	0.85	-0.74	-17.98
5,216.0	1.00	318.70	5,202.3	-254.5	-43.0	-255.3	0.18	0.00	-10.54
5,309.0	1.00	316.00	5,295.2	-253.3	-44.1	-254.1	0.05	0.00	-2.90
5,402.0	0.40	202.80	5,388.2	-253.0	-44.8	-253.8	1.31	-0.65	-121.72
5,496.0	0.30	228.00	5,482.2	-253.5	-45.1	-254.3	0.19	-0.11	26.81
5,589.0	1.40	22.10	5,575.2	-252.6	-44.9	-253.4	1.80	1.18	165.70
5,683.0	9.40	7.70	5,668.7	-243.9	-43.4	-244.7	8.57	8.51	-15.32
5,778.0	14.60	10.20	5,761.6	-224.4	-40.3	-225.1	5.50	5.47	2.63
5,871.0	18.70	9.80	5,850.7	-198.2	-35.7	-198.8	4.41	4.41	-0.43
5,964.0	20.80	8.60	5,938.2	-167.1	-30.7	-167.7	2.30	2.26	-1.29
6,027.0	23.90	4.90	5,996.5	-143.4	-27.9	-143.9	5.40	4.92	-5.87
6,122.0	33.20	6.80	6,079.9	-98.3	-23.2	-98.7	9.83	9.79	2.00
6,168.0	38.30	9.50	6,117.2	-71.7	-19.3	-72.0	11.60	11.09	5.87

Company: Condor Energy
Project: SEC.16-T7N-R60W
Site: State 16-7-60-1H Pad Sec.16-T7N-R60W
Well: State 16-7-60-1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well State 16-7-60-1H
TVD Reference: WELL @ 4904.6ft (RKB - 18.5')
MD Reference: WELL @ 4904.6ft (RKB - 18.5')
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: 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)
6,215.0	41.60	10.40	6,153.2	-42.0	-14.1	-42.2	7.13	7.02	1.91
6,246.0	43.60	10.40	6,176.0	-21.3	-10.3	-21.5	6.45	6.45	0.00
6,278.0	46.56	9.80	6,198.6	1.0	-6.3	0.9	9.34	9.25	-1.88
6,309.0	50.10	8.80	6,219.2	23.8	-2.6	23.8	11.67	11.42	-3.23
6,340.0	53.50	8.80	6,238.4	47.9	1.1	47.9	10.97	10.97	0.00
6,371.0	57.00	9.00	6,256.1	73.1	5.1	73.1	11.30	11.29	0.65
6,465.0	71.60	7.00	6,296.7	156.7	16.7	157.0	15.65	15.53	-2.13
6,496.0	78.20	6.80	6,304.8	186.4	20.3	186.8	21.30	21.29	-0.65
6,519.0	83.60	6.70	6,308.4	209.0	23.0	209.4	23.48	23.48	-0.43
6,561.0	89.39	1.91	6,311.0	250.7	26.1	251.2	17.89	13.80	-11.41
7"									
6,569.0	90.50	1.00	6,311.0	258.7	26.3	259.2	17.89	13.82	-11.36
6,590.0	91.00	1.40	6,310.7	279.7	26.8	280.2	3.05	2.38	1.90
6,611.0	91.07	1.13	6,310.3	300.7	27.2	301.2	1.33	0.32	-1.29
600'FSL (Hardline)									
6,621.0	91.10	1.00	6,310.2	310.7	27.4	311.2	1.33	0.32	-1.29
6,642.0	91.37	0.80	6,309.7	331.7	27.8	332.2	1.61	1.29	-0.97
Isolation Packer									
6,652.0	91.50	0.70	6,309.5	341.7	27.9	342.2	1.61	1.29	-0.97
6,683.0	92.60	0.20	6,308.3	372.7	28.1	373.2	3.90	3.55	-1.61
6,714.0	92.80	0.20	6,306.9	403.6	28.2	404.1	0.65	0.65	0.00
6,745.0	92.70	0.30	6,305.4	434.6	28.4	435.1	0.46	-0.32	0.32
6,776.0	91.20	0.70	6,304.3	465.6	28.6	466.1	5.01	-4.84	1.29
6,808.0	90.00	0.30	6,304.0	497.6	28.9	498.1	3.95	-3.75	-1.25
6,839.0	88.90	0.00	6,304.3	528.6	29.0	529.0	3.68	-3.55	-0.97
6,933.0	88.50	0.30	6,306.4	622.6	29.3	623.0	0.53	-0.43	0.32
7,027.0	88.60	0.30	6,308.8	716.5	29.7	717.0	0.11	0.11	0.00
7,058.0	88.80	0.50	6,309.5	747.5	30.0	748.0	0.91	0.65	0.65
7,089.0	90.30	0.90	6,309.8	778.5	30.3	779.0	5.01	4.84	1.29
7,121.0	91.20	1.40	6,309.3	810.5	31.0	811.0	3.22	2.81	1.56
7,152.0	91.80	1.40	6,308.5	841.5	31.7	841.9	1.94	1.94	0.00
7,183.0	91.70	1.40	6,307.6	872.5	32.5	872.9	0.32	-0.32	0.00
7,215.0	90.80	1.40	6,306.9	904.4	33.3	904.9	2.81	-2.81	0.00
7,246.0	89.50	1.20	6,306.8	935.4	34.0	935.9	4.24	-4.19	-0.65
7,277.0	88.80	1.20	6,307.3	966.4	34.6	966.9	2.26	-2.26	0.00
7,308.0	88.80	1.00	6,307.9	997.4	35.2	997.9	0.65	0.00	-0.65
7,340.0	90.60	1.60	6,308.1	1,029.4	36.0	1,029.9	5.93	5.63	1.88
7,371.0	90.90	1.00	6,307.7	1,060.4	36.7	1,060.9	2.16	0.97	-1.94
7,403.0	91.50	1.60	6,307.0	1,092.4	37.4	1,092.9	2.65	1.88	1.88
7,434.0	91.70	1.40	6,306.1	1,123.4	38.2	1,123.9	0.91	0.65	-0.65
7,466.0	92.20	1.40	6,305.1	1,155.3	39.0	1,155.9	1.56	1.56	0.00
7,497.0	92.30	1.60	6,303.8	1,186.3	39.8	1,186.8	0.72	0.32	0.65
7,591.0	90.80	0.90	6,301.3	1,280.2	41.8	1,280.8	1.76	-1.60	-0.74
7,685.0	93.00	1.00	6,298.2	1,374.2	43.4	1,374.7	2.34	2.34	0.11
7,779.0	93.50	0.50	6,292.8	1,468.0	44.6	1,468.6	0.75	0.53	-0.53
7,871.0	92.50	0.00	6,288.0	1,559.9	45.0	1,560.5	1.21	-1.09	-0.54
7,902.0	92.40	0.00	6,286.7	1,590.8	45.0	1,591.4	0.32	-0.32	0.00
7,934.0	91.60	0.20	6,285.6	1,622.8	45.1	1,623.4	2.58	-2.50	0.63
7,965.0	90.70	0.30	6,285.0	1,653.8	45.2	1,654.4	2.92	-2.90	0.32
7,996.0	89.60	0.30	6,284.9	1,684.8	45.4	1,685.4	3.55	-3.55	0.00
8,027.0	89.20	1.20	6,285.2	1,715.8	45.8	1,716.4	3.18	-1.29	2.90
8,059.0	88.60	1.40	6,285.8	1,747.8	46.5	1,748.4	1.98	-1.88	0.63
8,090.0	88.80	1.40	6,286.5	1,778.8	47.3	1,779.4	0.65	0.65	0.00
8,121.0	88.70	0.50	6,287.2	1,809.8	47.8	1,810.4	2.92	-0.32	-2.90

Company:	Condor Energy	Local Co-ordinate Reference:	Well State 16-7-60-1H
Project:	SEC.16-T7N-R60W	TVD Reference:	WELL @ 4904.6ft (RKB - 18.5')
Site:	State 16-7-60-1H Pad Sec.16-T7N-R60W	MD Reference:	WELL @ 4904.6ft (RKB - 18.5')
Well:	State 16-7-60-1H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
8,152.0	89.00	1.40	6,287.8	1,840.8	48.3	1,841.3	3.06	0.97	2.90
8,183.0	88.80	1.60	6,288.4	1,871.7	49.1	1,872.3	0.91	-0.65	0.65
8,246.0	88.00	1.00	6,290.2	1,934.7	50.5	1,935.3	1.59	-1.27	-0.95
8,277.0	88.50	0.90	6,291.1	1,965.7	51.0	1,966.3	1.64	1.61	-0.32
8,308.0	88.20	0.20	6,292.0	1,996.7	51.3	1,997.3	2.46	-0.97	-2.26
8,339.0	90.50	1.40	6,292.4	2,027.7	51.8	2,028.3	8.37	7.42	3.87
8,371.0	90.10	0.50	6,292.2	2,059.7	52.3	2,060.3	3.08	-1.25	-2.81
8,402.0	89.30	359.60	6,292.4	2,090.7	52.3	2,091.3	3.88	-2.58	-2.90
8,433.0	88.50	359.60	6,293.0	2,121.6	52.1	2,122.3	2.58	-2.58	0.00
8,465.0	90.00	359.60	6,293.4	2,153.6	51.9	2,154.2	4.69	4.69	0.00
8,496.0	90.80	0.70	6,293.2	2,184.6	52.0	2,185.2	4.39	2.58	3.55
8,527.0	91.50	0.70	6,292.5	2,215.6	52.4	2,216.2	2.26	2.26	0.00
8,558.0	91.10	0.30	6,291.8	2,246.6	52.6	2,247.2	1.82	-1.29	-1.29
8,589.0	89.80	359.50	6,291.6	2,277.6	52.6	2,278.2	4.92	-4.19	-2.58
8,620.0	89.60	0.20	6,291.8	2,308.6	52.5	2,309.2	2.35	-0.65	2.26
8,714.0	90.70	0.30	6,291.5	2,402.6	52.9	2,403.2	1.18	1.17	0.11
8,808.0	91.60	0.30	6,289.6	2,496.6	53.4	2,497.2	0.96	0.96	0.00
8,902.0	90.00	0.90	6,288.3	2,590.6	54.4	2,591.1	1.82	-1.70	0.64
8,995.0	91.50	1.20	6,287.1	2,683.6	56.1	2,684.1	1.64	1.61	0.32
9,088.0	89.00	0.50	6,286.7	2,776.5	57.5	2,777.1	2.79	-2.69	-0.75
9,183.0	87.30	0.20	6,289.8	2,871.5	58.0	2,872.1	1.82	-1.79	-0.32
9,276.0	88.40	0.70	6,293.2	2,964.4	58.8	2,965.0	1.30	1.18	0.54
9,370.0	89.40	0.20	6,295.1	3,058.4	59.5	3,059.0	1.19	1.06	-0.53
9,464.0	90.70	0.50	6,295.0	3,152.4	60.1	3,153.0	1.42	1.38	0.32
9,557.0	89.60	0.30	6,294.7	3,245.4	60.7	3,245.9	1.20	-1.18	-0.22
9,651.0	90.50	1.90	6,294.6	3,339.4	62.5	3,339.9	1.95	0.96	1.70
9,744.0	90.30	2.60	6,294.0	3,432.3	66.2	3,432.9	0.78	-0.22	0.75
9,837.0	90.00	2.60	6,293.8	3,525.2	70.4	3,525.9	0.32	-0.32	0.00
9,930.0	91.50	3.50	6,292.5	3,618.0	75.4	3,618.8	1.88	1.61	0.97
10,024.0	90.20	2.80	6,291.1	3,711.9	80.5	3,712.8	1.57	-1.38	-0.74
10,117.0	90.70	3.30	6,290.4	3,804.8	85.5	3,805.7	0.76	0.54	0.54
10,211.0	90.30	2.60	6,289.6	3,898.6	90.3	3,899.6	0.86	-0.43	-0.74
10,304.0	89.30	0.70	6,289.9	3,991.6	93.0	3,992.6	2.31	-1.08	-2.04
10,398.0	89.90	0.00	6,290.6	4,085.6	93.6	4,086.6	0.98	0.64	-0.74
10,494.0	90.00	0.20	6,290.7	4,181.6	93.7	4,182.6	0.23	0.10	0.21
10,575.0	90.30	0.20	6,290.4	4,262.6	94.0	4,263.6	0.37	0.37	0.00
10,632.0	90.30	0.20	6,290.1	4,319.6	94.2	4,320.6	0.00	0.00	0.00

BHL 660'FNL & 750'FWL

Company:	Condor Energy	Local Co-ordinate Reference:	Well State 16-7-60-1H
Project:	SEC.16-T7N-R60W	TVD Reference:	WELL @ 4904.6ft (RKB - 18.5')
Site:	State 16-7-60-1H Pad Sec.16-T7N-R60W	MD Reference:	WELL @ 4904.6ft (RKB - 18.5')
Well:	State 16-7-60-1H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
HARDLINE 600'SHL - actual wellpath misses target center by 360.6ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E) - Polygon	0.00	0.00	1.0	300.0	-200.0	1,453,373.34	3,387,253.71	40.569553	-104.106010
Point 1			1.0	0.0	0.0	1,453,373.34	3,387,253.71		
Point 2			1.0	0.0	400.0	1,453,379.63	3,387,653.65		
HARDLINE 600'BHL - actual wellpath misses target center by 4336.4ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E) - Polygon	0.00	0.00	1.0	4,331.8	-200.0	1,457,404.51	3,387,190.30	40.580620	-104.106010
Point 1			1.0	0.0	0.0	1,457,404.51	3,387,190.30		
Point 2			1.0	0.0	400.0	1,457,410.80	3,387,590.24		
SHL 300'FSL & 750'F - actual wellpath hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,453,076.53	3,387,458.40	40.568730	-104.105290
SECTION LINE - actual wellpath misses target center by 360.5ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E) - Polygon	0.00	0.00	1.0	-300.0	-200.0	1,452,773.43	3,387,263.15	40.567907	-104.106010
Point 1			1.0	0.0	0.0	1,452,773.43	3,387,263.15		
Point 2			1.0	0.0	400.0	1,452,779.72	3,387,663.08		
BHL 660'FNL & 750'F - actual wellpath misses target center by 19.8ft at 10632.0ft MD (6290.1 TVD, 4319.6 N, 94.2 E) - Point	0.00	0.00	6,279.0	4,331.8	83.3	1,457,408.99	3,387,473.59	40.580620	-104.104990
WP1 - actual wellpath misses target center by 41.9ft at 7813.1ft MD (6290.9 TVD, 1502.0 N, 44.9 E) - Point	0.00	0.00	6,287.0	1,502.0	3.2	1,454,578.35	3,387,437.92	40.572853	-104.105279

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,561.0	6,311.0	7"	7	7-1/2

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
6,611.0	6,310.3	300.7	27.2	600'FSL (Hardline)
6,642.0	6,309.7	331.7	27.8	Isolation Packer

Checked By: _____ Approved By: _____ Date: _____