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NMOCD – Potato Basin - Spud Muffin Wolfcamp Hearings

Sections 31-30, 23S-29E

Geological Exhibits, Docket 37-18: Cases 16163 & 16164

Delaware Basin – Eddy County, NM

Susan Estes – 9/6/2018

NYSE: DVN
devonenergy.com

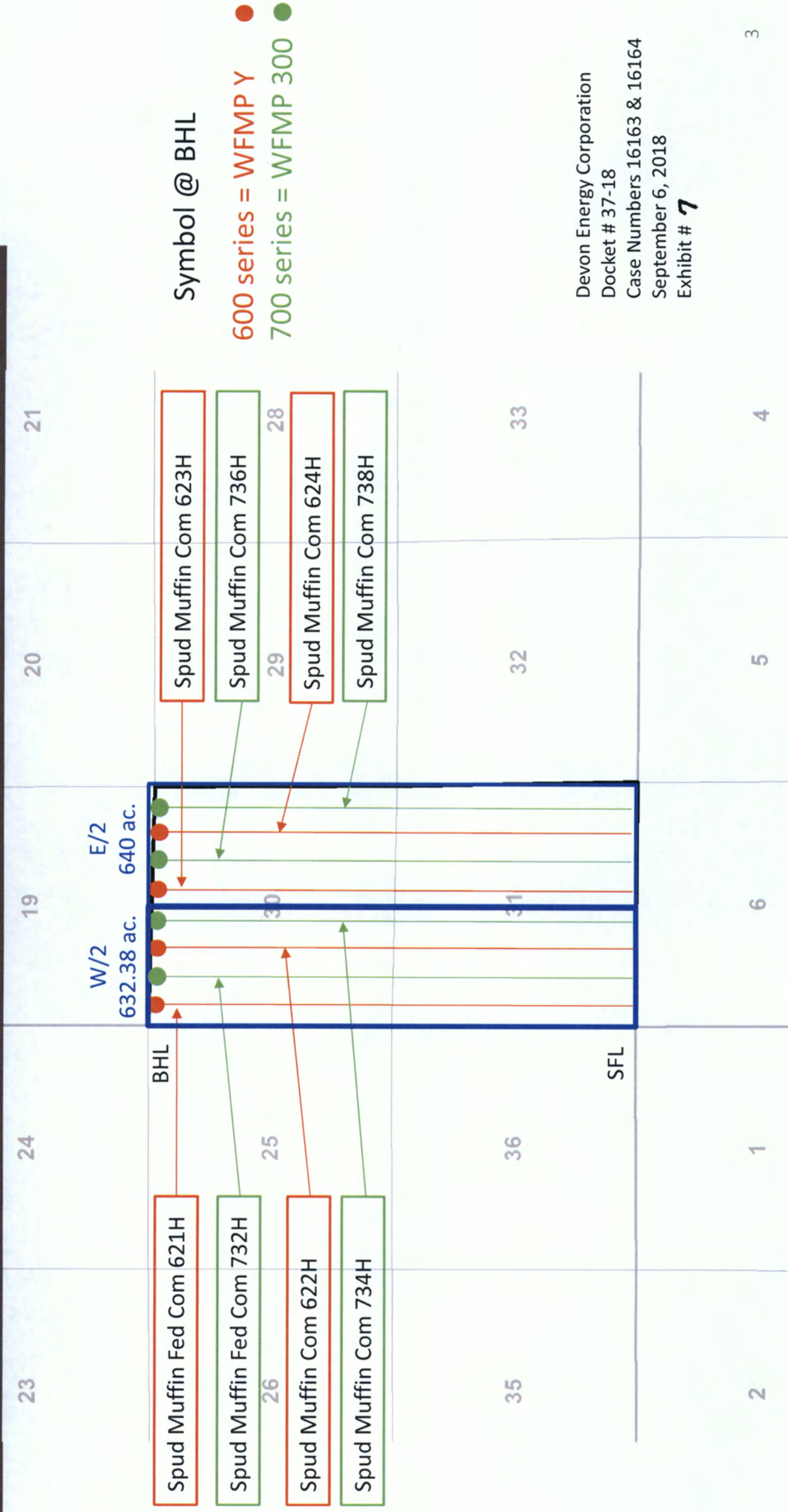
Devon Energy Corporation – Wolfcamp Spacing & Pooling
NMOCD Hearing, September 6, 2018



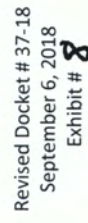
Docket # 37-18
Case # 16163 (W/2)

Potato Basin - Wolfcamp Execution Plan

WFMP Y & WFMP 300 Proposed Locations, Sects. 31 & 30-23S-29E

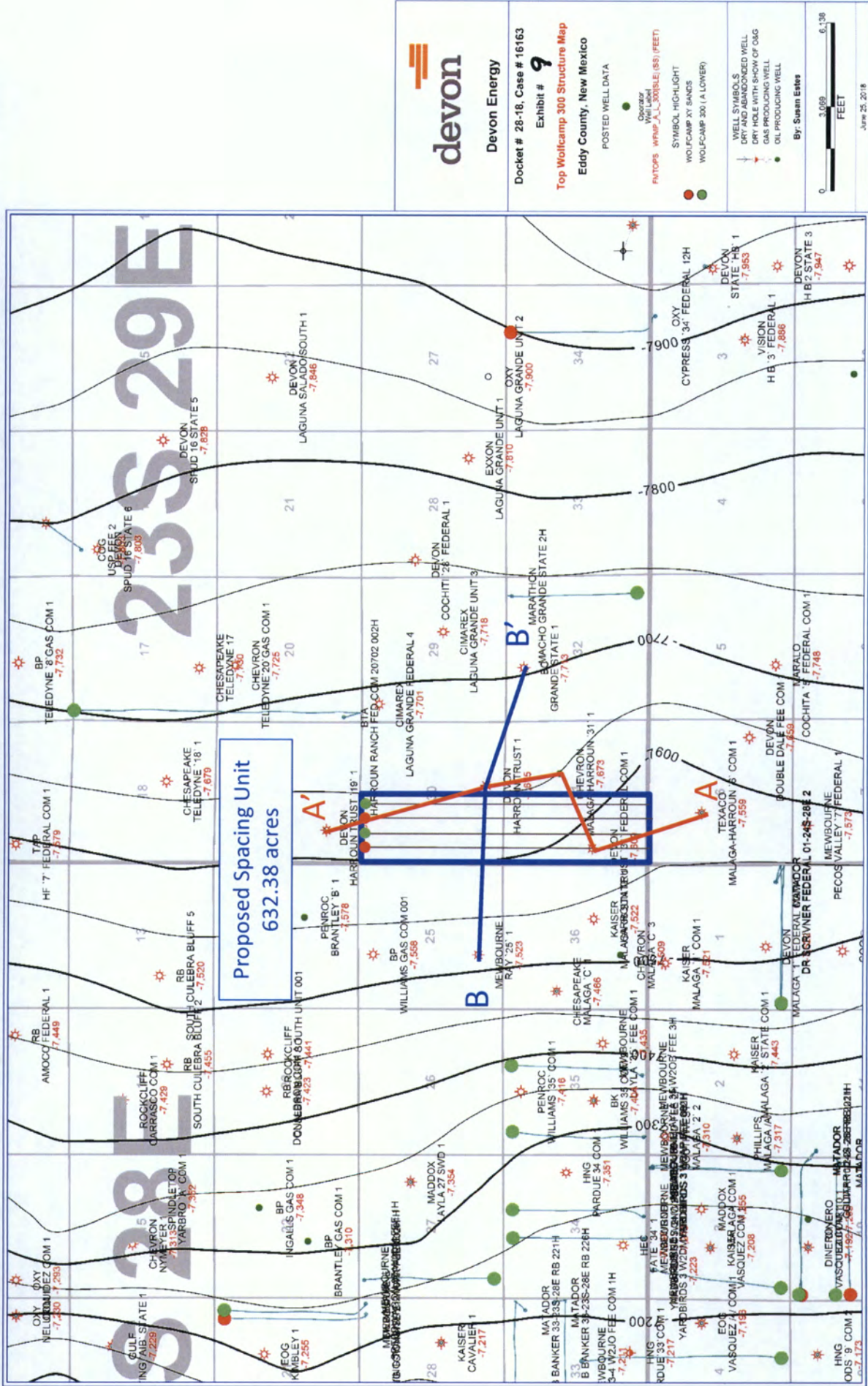


Devon Energy Corporation
Docket # 37-18
Case Numbers 16163 & 16164
September 6, 2018
Exhibit # 7



Top Wolfcamp 300 Structure Map

Contour Interval = 50'



Devon Energy

Docket # 28-18, Case # 16163
Exhibit # 9
Top Wolfcamp 300 Structure Map
Eddy County, New Mexico

POSTED WELL DATA

Operator
Well Location
PNTOPS WTPMP A-1 DOUBLE (SS) (FEET)
SYMBOL HIGHLIGHT
WOLF CAMP XY SANDS
WOLF CAMP 300 (A LOWER)

WELL SYMBOLS
DRY AND ABANDONED WELL
DRY HOLE WITH SHOW OF OIL
GAS PRODUCING WELL
OIL PRODUCING WELL

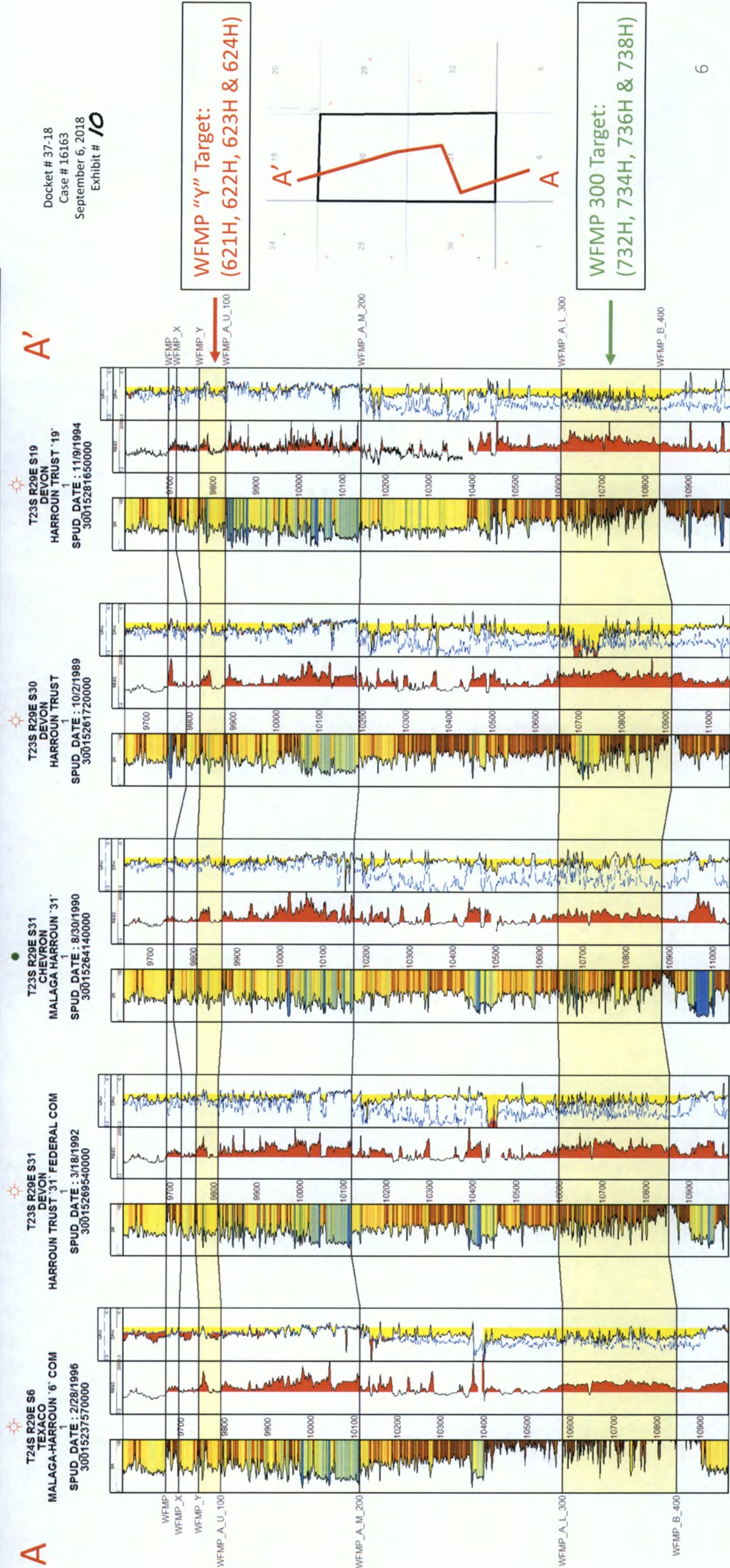
By: Susan Estes

0 3,065 6,130
FEET
June 25, 2018

Revised Docket # 37-18
September 6, 2018
Exhibit # 9

Stratigraphic (Strike) Cross-Section A-A'

South to North



Docket # 37-18
Case # 16163
September 6, 2018
Exhibit # 10

Stratigraphic (Dip) Cross-Section B-B'

West to East



B

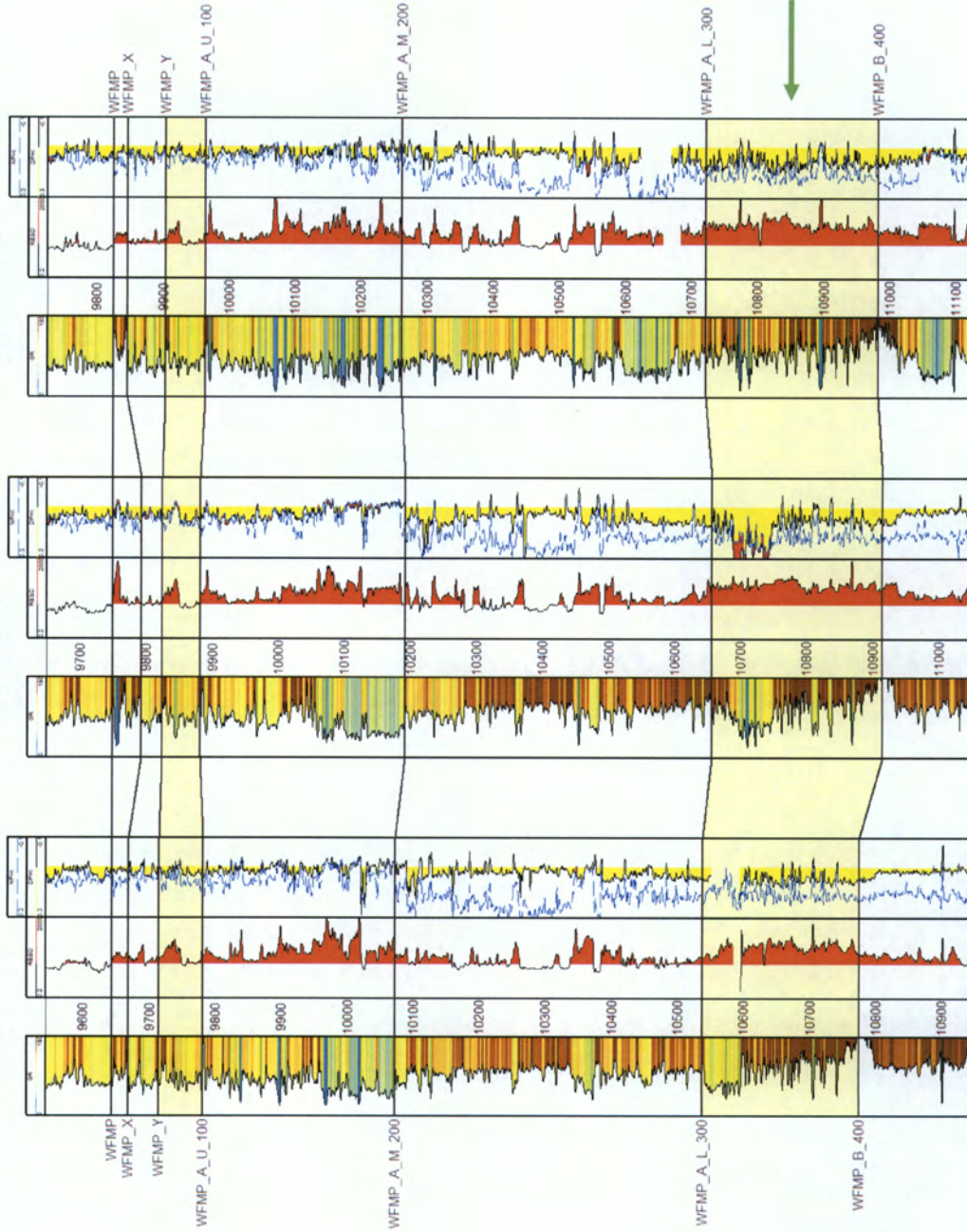
T23S R28E S25
MEWBOURNE
RAY '25'
SPUD DATE: 9/12/1991
30015268130000

T23S R29E S30
DEVON
HARROUN TRUST
SPUD DATE: 10/2/1989
30015261720000

T23S R29E S32
BC
GRANDE STATE
SPUD DATE: 5/1/2016
30015319100000

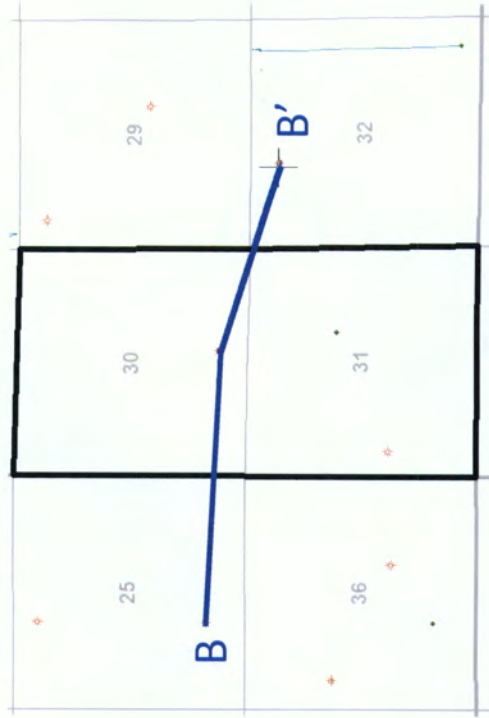
B'

Docket # 37-18
Case # 16163
September 6, 2018
Exhibit # //



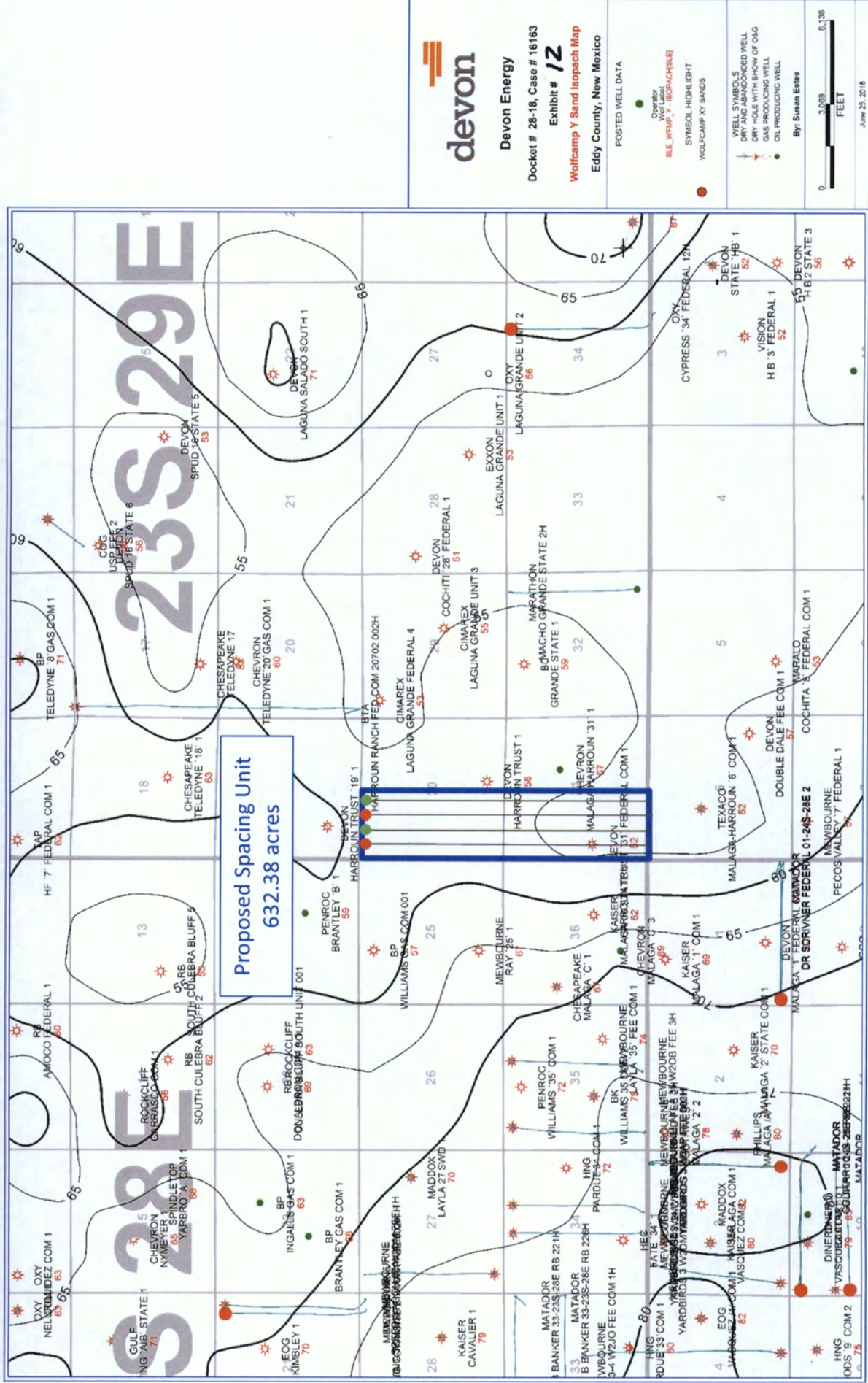
WFMP "Y" Target:
(621H, 622H, 623H & 624H)

WFMP 300 Target:
(732H, 734H, 736H & 738H)



Wolfcamp Y Isopach Map

Contour Interval = 5'



Devon Energy

Docket # 28-18, Case # 16163
Exhibit # 12

Wolfcamp Y Sand Isopach Map

Eddy County, New Mexico

POSTED WELL DATA

Operator: **WOLF CAMP Y SAND ISOPACH (H&E)**

SYMBOL HIGHLIGHT

WOLF CAMP XY SANDS

WELL SYMBOLS

DRY AND ABANDONED WELL

DRY HOLE WITH SHOW OF OIL

GAS PRODUCING WELL

OIL PRODUCING WELL

By: Susan Estey

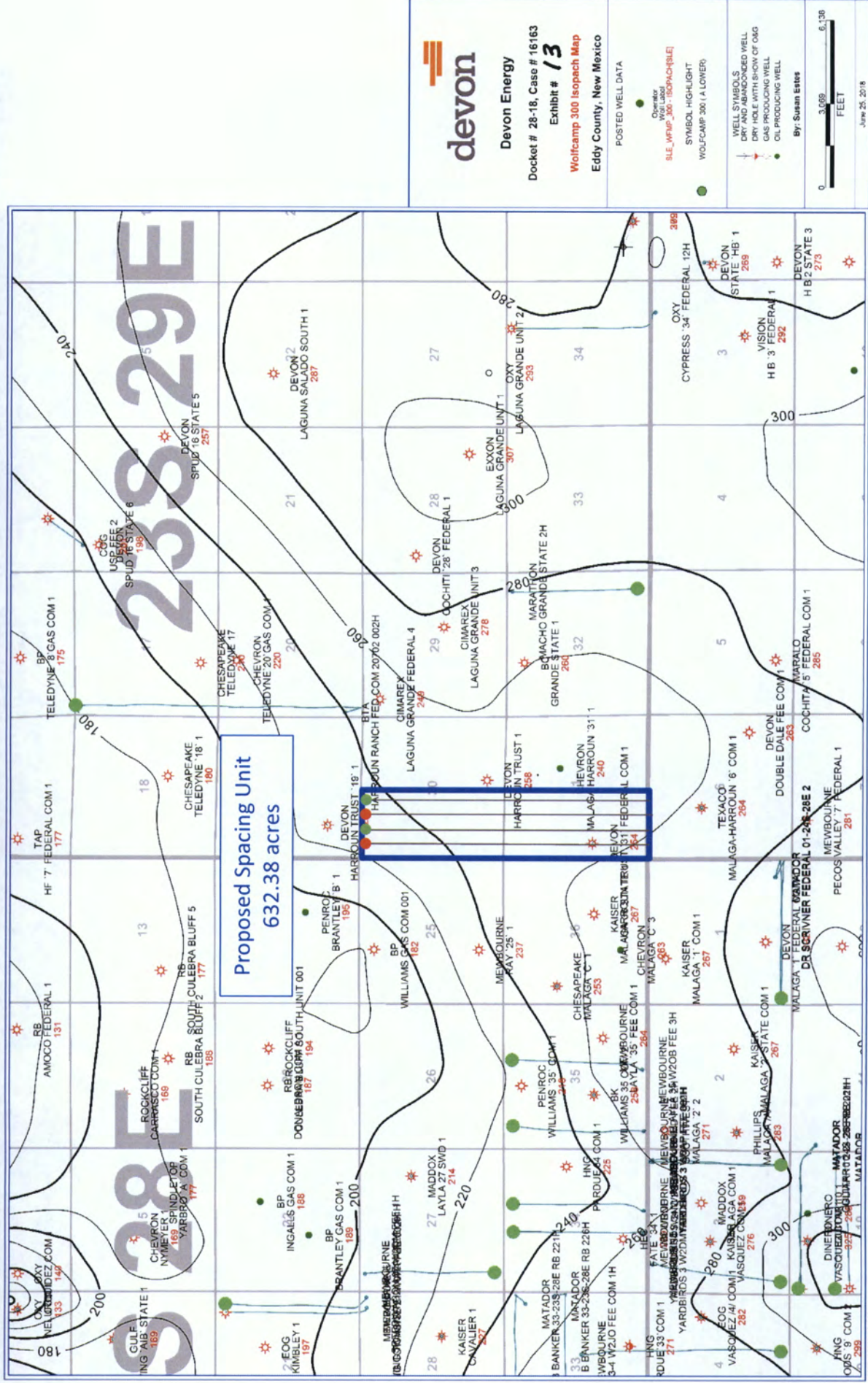
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FEET

JUN 25, 2018

Wolfcamp 300 Isopach Map

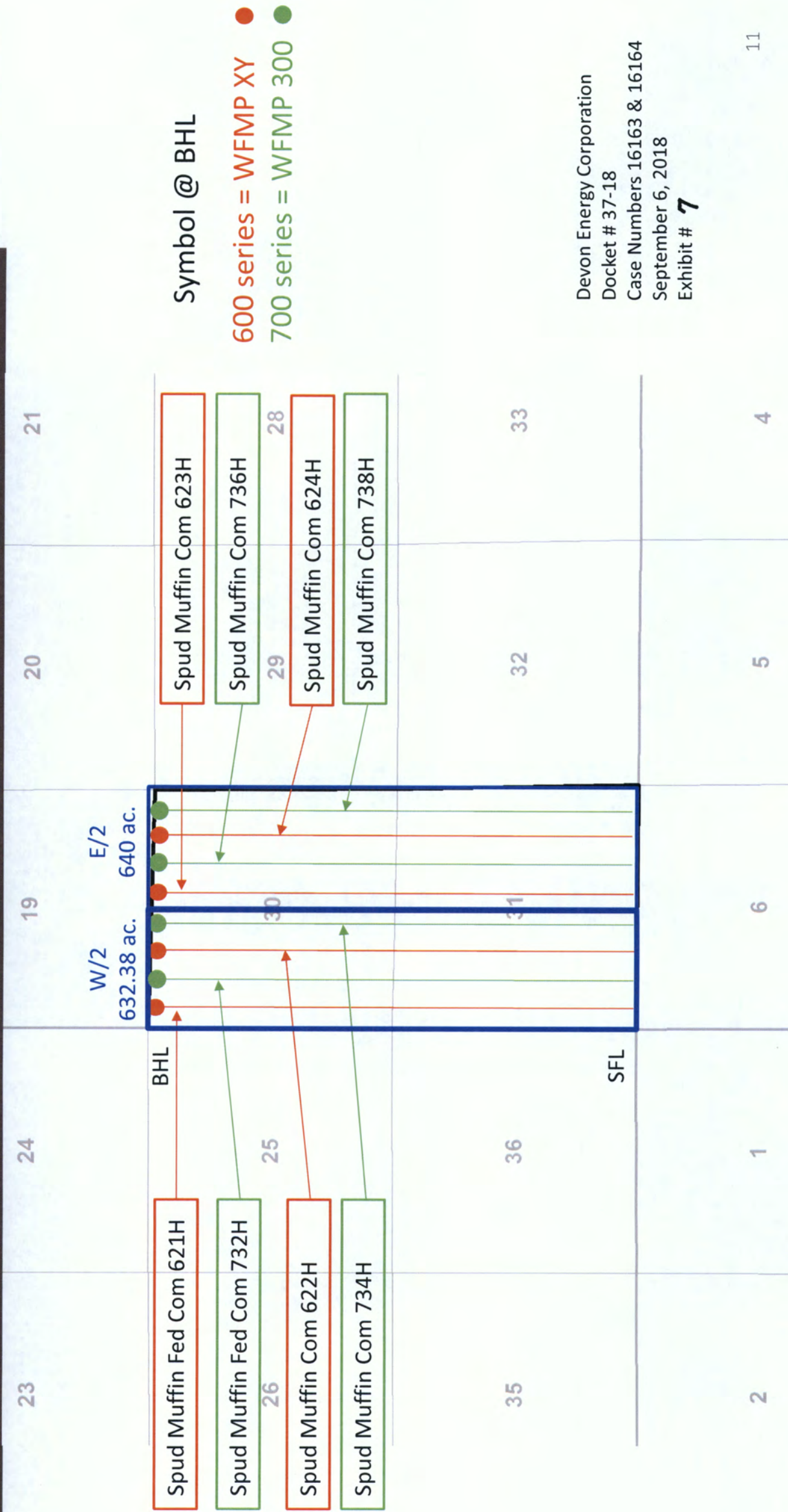
Contour Interval = 20'

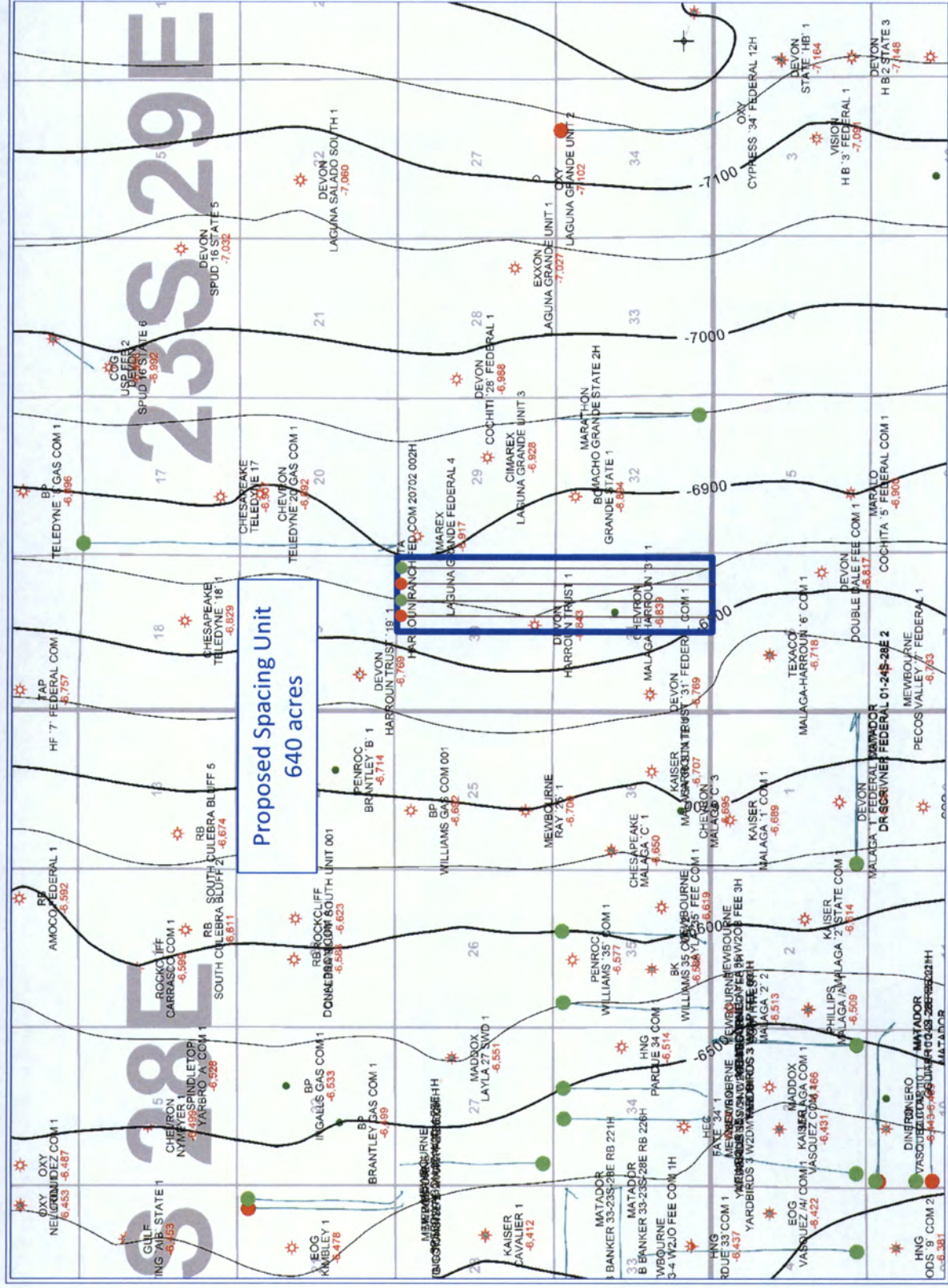


Docket # 37-18 Case # 16164 (E/2)

Potato Basin - Wolfcamp Execution Plan

WFMP Y & WFMP 300 Proposed Locations, Sects. 31 & 30-23S-29E



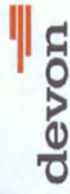


June 25, 2018

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Stratigraphic (Strike) Cross-Section A-A' South to North



A

T24S R29E S6
TEXACO
MALAGA-HARROUN '6' COM
1
SPUD_DATE : 2/28/1996
30015237570000

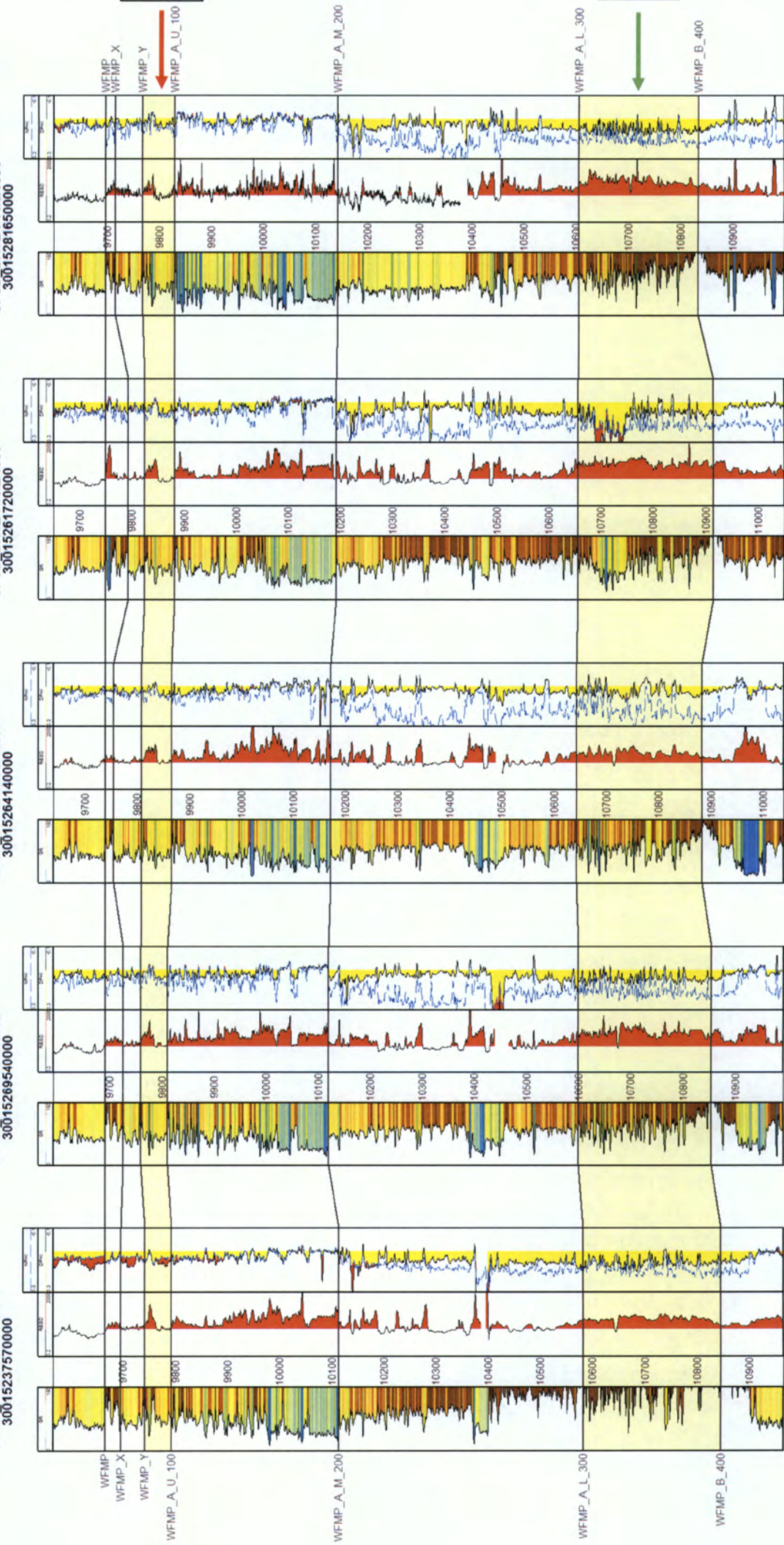
T23S R29E S31
DEVON
HARROUN TRUST '31' FEDERAL COM
1
SPUD_DATE : 3/18/1992
30015269540000

T23S R29E S31
CHEVRON
MALAGA HARROUN '31'
1
SPUD_DATE : 8/30/1990
30015264140000

T23S R29E S30
DEVON
HARROUN TRUST
1
SPUD_DATE : 10/2/1989
30015261720000

T23S R29E S19
DEVON
HARROUN TRUST '19'
1
SPUD_DATE : 11/9/1994
30015281650000

A'



WFMP "Y" Target:
(621H, 622H, 623H & 624H)

WFMP 300 Target:
(732H, 734H, 736H & 738H)

Stratigraphic (Dip) Cross-Section B-B'

West to East



B

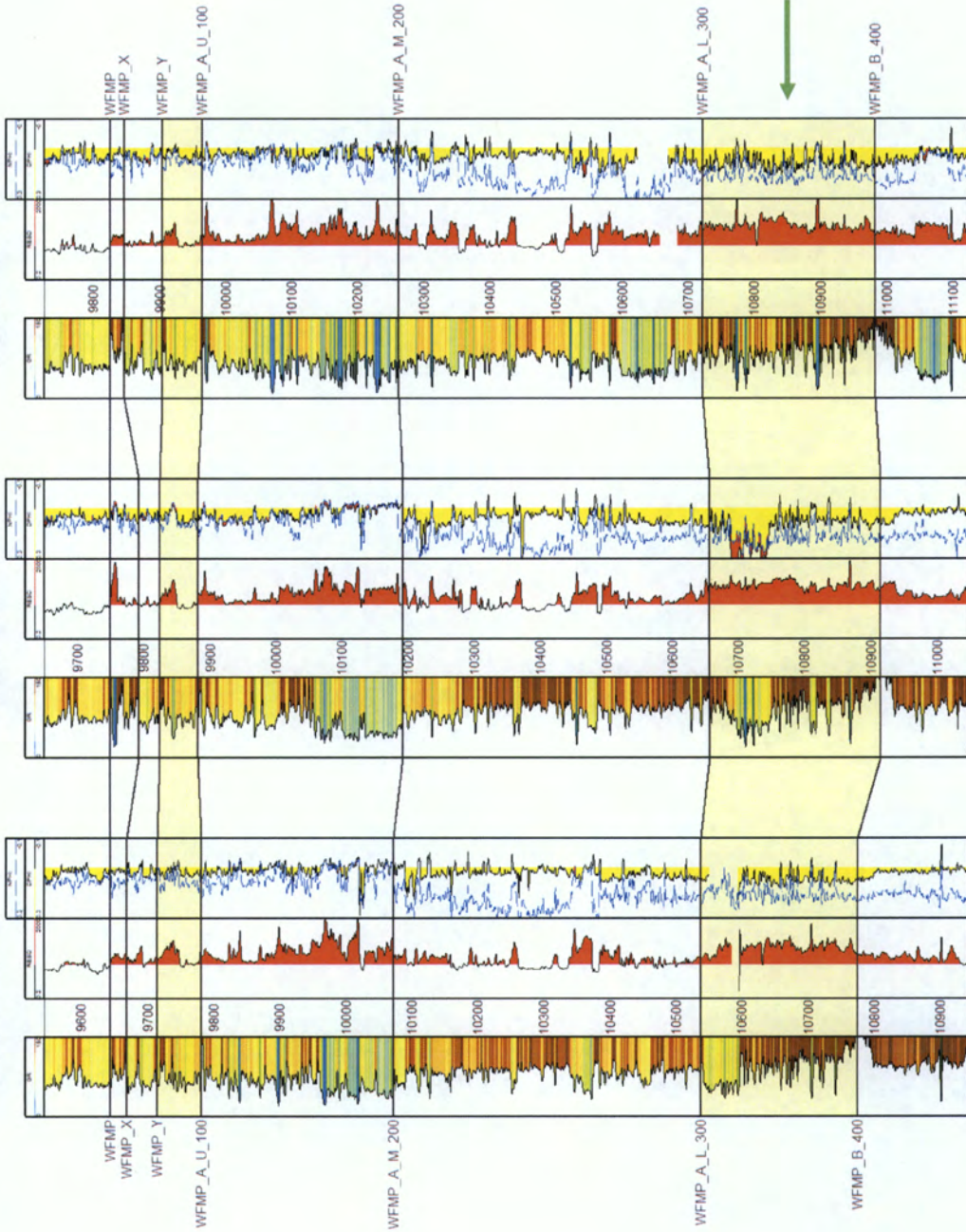
T23S R28E S25
MEWBOURNE
RAY '25'
1
SPUD DATE : 9/12/1991
30015268130000

T23S R29E S30
DEVON
HARROUN TRUST
1
SPUD DATE : 10/2/1989
30015261720000

T23S R29E S32
BC
GRANDE STATE
1
SPUD DATE : 5/1/2016
30015319100000

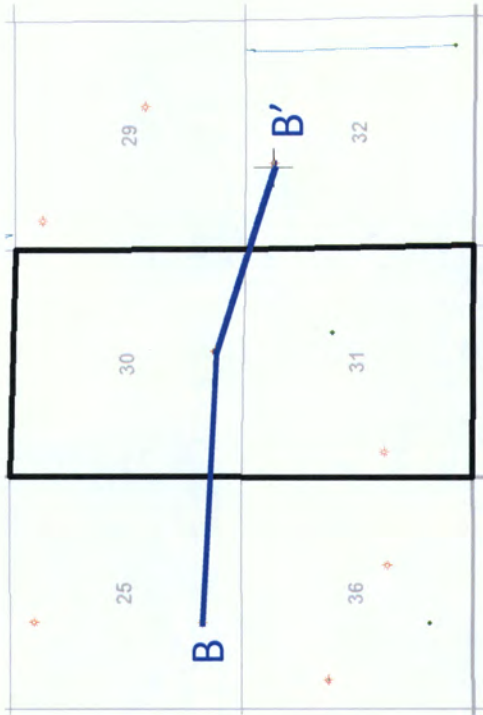
B'

Docket # 37-18
Case # 16164
September 6, 2018
Exhibit # //

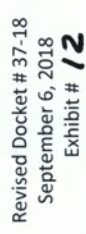


WFMP "Y" Target:
(621H, 622H, 623H & 624H)

WFMP 300 Target:
(732H, 734H, 736H & 738H)

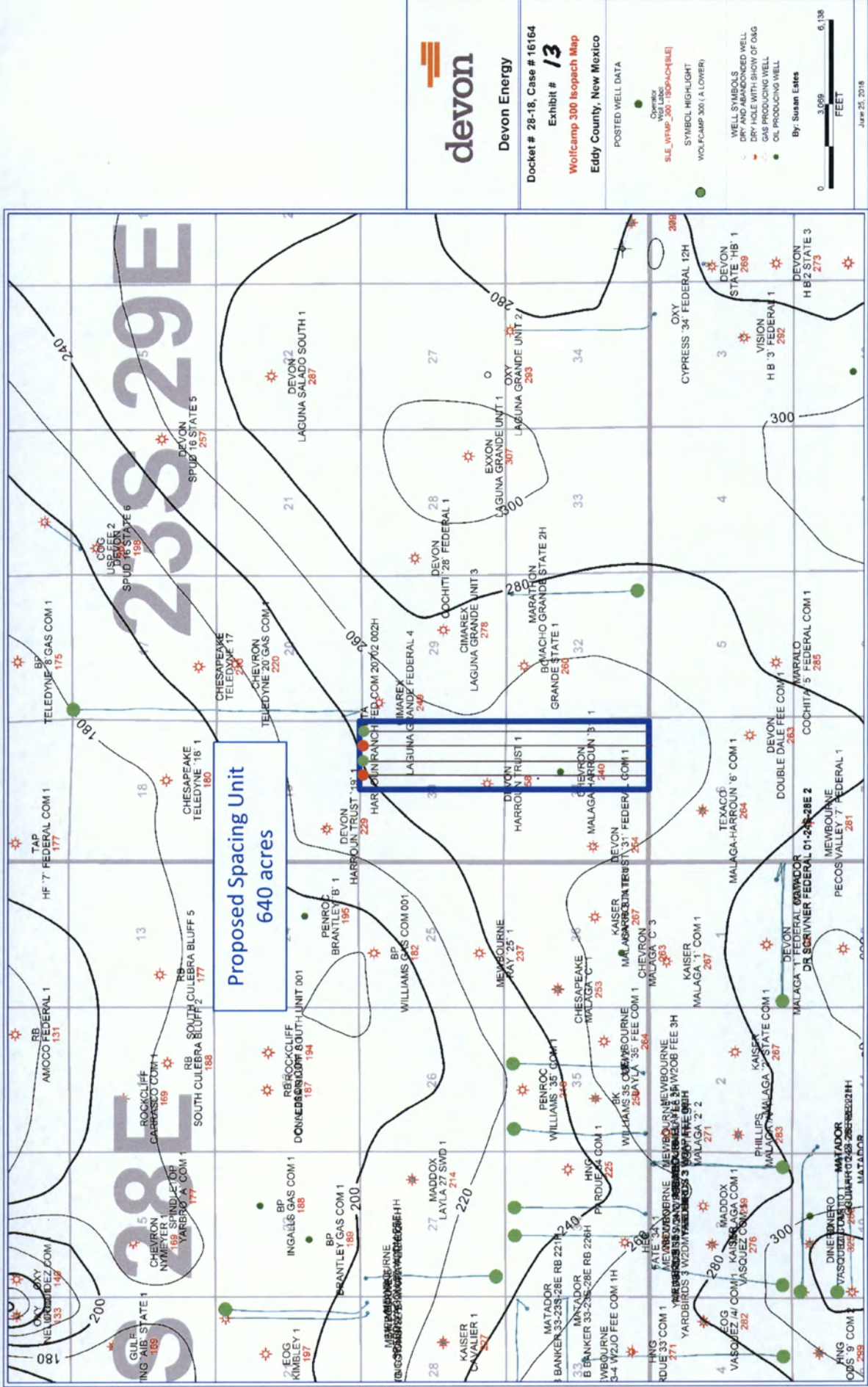


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Wolfcamp 300/A Lower Isopach Map

Contour Interval = 20'

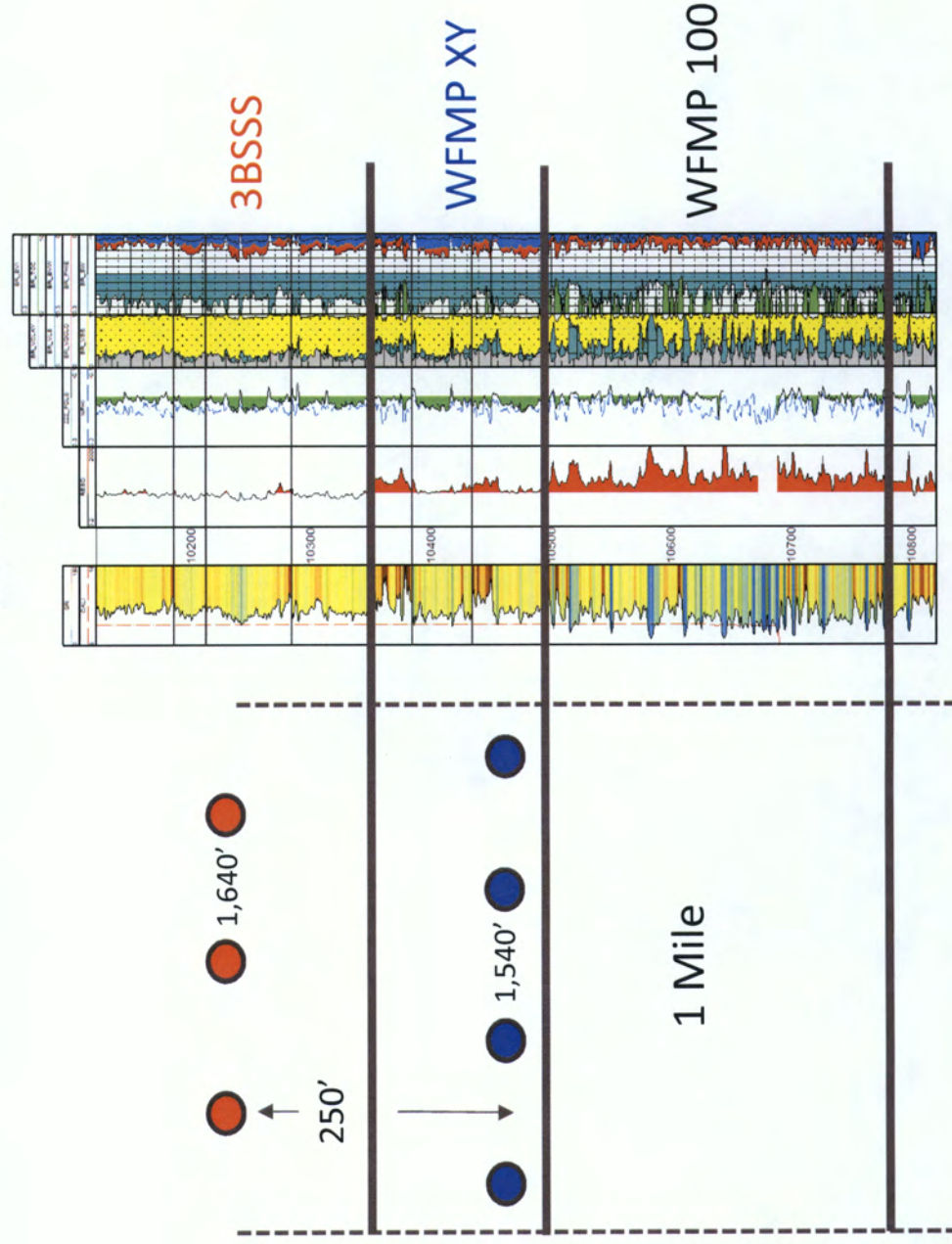


3RD Bone Spring/WFMP XY Execution Plan

Stack/Stagger Gunbarrel Diagram



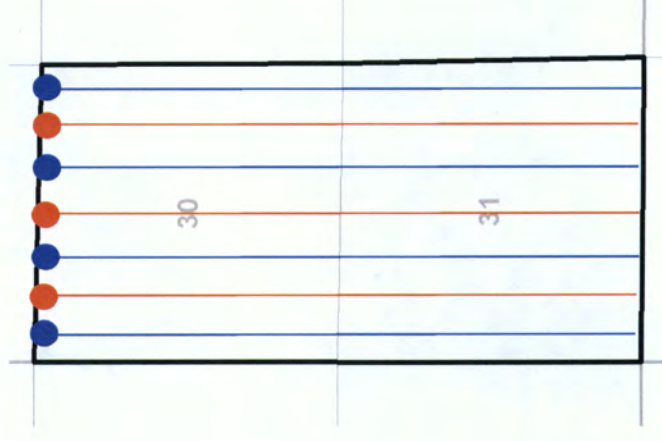
T24S R20E S1
DEVON
TOMMY'S BOY FEDERAL
SPUD DATE : 8/22/2009
30015371840000



Testing the interaction between 3BSSS & WFMP XY:

- Stack/stagger spacing
 - ~ 250' vertically between targets
 - ~ 660' - 880' horizontally between laterals
 - ~ 1,540' - 1,640' on plane
- Downhole gauges to obtain/monitor pressures
- Obtain & analyze PVT, DFIT data
- Data informs reservoir/frac modeling, petrophysics, etc...

Map View:



Devon Energy Corporation
Docket # 37-18
Case Numbers 16346 & 16349
September 6, 2018
Exhibit # 14