A

A'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
30015235140000	30015443410000	30015442700000	30015443400000	30015443390000	30015242060100	30015448900000	30015447500000	30015447490000	30015431650000	30015445600000	30025407780100	30025416290000	30025415720100	30025429880100	30025444950000
BTA	BTA	BTA	BTA	BTA	BTA	BTA	BTA	BTA	MEWBOURNE	MEWBOURNE	COG	COG	COG	CAZA	CAZA
STATE "28" COM 1	OGDEN 20509 29-29 FED COM 7H	OGDEN 20509 32-29 FEDERAL COM 008H	OGDEN 20509 32-29 FED COM 006H	OGDEN 20509 32-29 FED COM 005H	OGDEN 1	OGDEN 20509 29-32 013H	OGDEN 20509 29-32 FEDERAL COM 002H	OGDEN 20509 29-32 FEDERAL COM 001H	ZEPPELIN 32 W2L STATE COM 002H	ZEPPELIN 32 W2L/ STATE COM 001H	PRICKLY PEAR 6 FEDERAL 4H	PRICKLY PEAR 6 FEDERAL 3H	PRICKLY PEAR 6 FEDERAL 2H	EAGLEGLAW FEDERAL 001H	EAGLE CLAW FEDERAL COM 002H
T23S R28E S32	T23S R28E S32	T23S R28E S32	T23S R28E S32	T23S R28E S32	T23S R28E S29	T23S R28E S29	T23S R28E S29	T23S R28E S29	T23S R28E S32	T23S R28E S32	T20S R35E S6	T20S R35E S6	T20S R35E S6	T20S R35E S5	T20S R35E S5
ELEV_KB : 3,138					ELEV_KB : 3,100						ELEV_KB : 3,714		ELEV_KB : 3,714	ELEV_KB : 3,721	
7/1/1983					2/1/2010						1/2/2013	12/23/2014	4/7/2014	11/27/2017	
<953FT>	<334FT>	<485FT>	<398FT>	<6,198FT>	<1,721FT>	<60FT>	<30FT>	<9,068FT>	<233FT>	<228,744FT>	<874FT>	<1,467FT>	<2,264FT>	<1,708FT>	

HORZ TARGET

HORZ TARGET

HORZ TARGET

HORZ TARGET

3rd Bone Spring Sand

Wolfcamp 'X' & 'Y' Sands

Upper Wolfcamp 'A' Shale

Wolfcamp 'B' Shale

Wolfcamp 'C' Shale

Wolfcamp 'D' Shale

T/STRAWN

9,305'

9,382'

9,450'

9,426'

9,470'

9,458'

9,946'

10,235'

10,375'

11,106'

11,116'

11,148'

11,175'

11,100'

306,465 BO	175,407 BO	199,748 BO	174,897 BO	Status: WOC
(21 BOPD)	(84 BOPD)	(74 BOPD)	(1,243 BOPD)	
226,705 MCF	201,902 MCF	134,531 MCF	125,885 MCF	
90,178 BW	80,185 BW	68,576 BW	125,502 BW	

Index Map

COG - Caza Area (Wells 12 - 16)

BTA - Marathon Area (Wells 1 - 11)

43 MILES

A

A'

29

32

"LYNN S. CHARUK"

EXHIBIT 5

Lynn S. Charuk

BTA - MARATHON OIL PROTEST

A - A' Stratigraphic X-Section

Datum: TSSPG Cab

Eddy Co., NM

Horizontal Scale = 2950.0
Vertical Scale = 50.0
Vertical Exaggeration = 59.0x

TOPS AND MARKERS

By: Lynn S. Charuk/Vicki Levens

May 21 2018 - 3:31 PM