

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-45690

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Dalmatian 3-2-23-27 Fee

8. Well Number 411H

9. OGRID Number 246289

10. Pool name or Wildcat
Purple Sage; Wolfcamp (gas)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

MAR 18 2019

2. Name of Operator WPX Energy Permian, LLC

RECEIVED

3. Address of Operator
3500 One Williams Center, MD 35 Tulsa OK 74172

4. Well Location

Unit Letter L : 2336 feet from the S line and 1194 feet from the W line
Section 3 Township 23S Range 27E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,112' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please be advised, WPX Energy Permian, LLC has slightly modified our target TVD. The target is still in the permitted Purplesage Wolfcamp(gas), but approximately 43' more shallow than originally planned. Our revised Directional Plan is attached. *

Spud Date:

03/13/2019

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Larry E. Rader TITLE Regulatory Specialist DATE 03/18/2019

Type or print name: Larry E. Rader

E-mail address: larry.rader@wpxenergy.com

PHONE: 539-573-3543

For State Use Only

APPROVED BY: Rusty Klein TITLE Business Development DATE 3-19-2019

Conditions of Approval (if any):

WPX Energy

Eddy County, New Mexico (NAD 83)
Dalmatian/Shepherd 3-2-23-27 Fee Pad
Dalmatian 3-2-23-27 Fee 411H
API: 30-015-45690
Wellbore #1

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 18 2019

RECEIVED

8

Plan: Plan #5

Standard Planning Report

15 March, 2019



Scientific Drilling

www.scientificdrilling.com

Scientific Drilling, Intl

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Dalmatian 3-2-23-27 Fee 411H
Company:	WPX Energy	TVD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Site:	Dalmatian/Shepherd 3-2-23-27 Fee Pad	North Reference:	Grid
Well:	Dalmatian 3-2-23-27 Fee 411H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5		

Project	Eddy County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Dalmatian/Shepherd 3-2-23-27 Fee Pad		
Site Position:		Northing:	485,066.30 usft
From:	Map	Easting:	587,845.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.333429
		Longitude:	-104.182755
		Grid Convergence:	0.08 °

Well	Dalmatian 3-2-23-27 Fee 411H		
Well Position	+N/-S	0.00 usft	Northing: 485,066.30 usft
	+E/-W	0.00 usft	Easting: 587,845.30 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.333429
		Longitude:	-104.182755
		Ground Level:	3,112.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	1/23/2019	7.25
			Dip Angle
			(°)
			60.05
			Field Strength
			(nT)
			47,935

Design	Plan #5		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 2,037.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			89.64

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(bearing)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
2,037.00	1.03	90.28	2,036.69	-7.38	12.61	0.00	0.00	0.00	0.00	
2,113.00	1.03	90.28	2,112.68	-7.39	13.97	0.00	0.00	0.00	0.00	
3,019.72	17.12	260.00	3,006.71	-30.80	-110.35	2.00	1.77	18.72	170.28	
3,119.72	17.12	260.00	3,102.28	-35.91	-139.34	0.00	0.00	0.00	0.00	
3,406.83	17.12	240.41	3,376.90	-64.14	-217.76	2.00	0.00	-6.82	-99.38	
6,629.42	17.12	240.41	6,456.71	-532.62	-1,042.63	0.00	0.00	0.00	0.00	
7,485.39	0.00	0.00	7,300.00	-595.30	-1,153.00	2.00	-2.00	0.00	180.00	
8,666.43	0.00	0.00	8,481.04	-595.30	-1,153.00	0.00	0.00	0.00	0.00	
9,566.43	90.00	89.64	9,054.00	-591.67	-580.05	10.00	10.00	9.96	89.64	
19,350.58	90.00	89.64	9,054.00	-529.60	9,203.90	0.00	0.00	0.00	0.00	Dal401H BHL

Scientific Drilling, Intl

Planning Report

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Site:	Dalmatian/Shepherd 3-2-23-27 Fee Pad	North Reference:	Grid
Well:	Dalmatian 3-2-23-27 Fee 411H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.00	0.54	351.04	179.00	0.83	-0.13	-0.13	0.30	0.30	0.00
240.00	0.77	324.61	239.99	1.45	-0.41	-0.40	0.61	0.38	-43.33
331.00	0.55	332.41	330.99	2.34	-0.97	-0.96	0.26	-0.24	8.57
354.00	0.58	334.90	353.99	2.54	-1.07	-1.05	0.17	0.13	10.83
511.00	0.27	296.15	510.98	3.42	-1.74	-1.72	0.26	-0.20	-24.68
607.00	0.34	254.65	606.98	3.45	-2.22	-2.20	0.24	0.07	-43.23
699.00	0.34	250.92	698.98	3.29	-2.74	-2.72	0.02	0.00	-4.05
792.00	0.35	232.55	791.98	3.02	-3.22	-3.21	0.12	0.01	-19.75
884.00	0.48	228.06	883.98	2.59	-3.73	-3.72	0.15	0.14	-4.88
977.00	0.33	235.01	976.97	2.18	-4.24	-4.23	0.17	-0.16	7.47
1,069.00	0.35	211.66	1,068.97	1.79	-4.61	-4.60	0.15	0.02	-25.38
1,161.00	0.57	166.44	1,160.97	1.11	-4.65	-4.64	0.44	0.24	-49.15
1,253.00	0.84	159.07	1,252.96	0.03	-4.30	-4.30	0.31	0.29	-8.01
1,345.00	1.59	135.92	1,344.94	-1.52	-3.17	-3.18	0.96	0.82	-25.16
1,438.00	1.65	139.94	1,437.90	-3.47	-1.41	-1.43	0.14	0.06	4.32
1,532.00	1.95	130.69	1,531.86	-5.55	0.67	0.64	0.44	0.32	-9.84
1,626.00	1.74	117.80	1,625.81	-7.25	3.15	3.10	0.49	-0.22	-13.71
1,720.00	1.10	89.14	1,719.78	-7.91	5.31	5.26	1.00	-0.68	-30.49
1,815.00	1.74	81.85	1,814.75	-7.69	7.65	7.60	0.70	0.67	-7.67
1,909.00	1.26	89.17	1,908.72	-7.47	10.10	10.05	0.55	-0.51	7.79
2,004.00	1.05	86.44	2,003.70	-7.40	12.01	11.96	0.23	-0.22	-2.87
2,037.00	1.03	90.28	2,036.69	-7.38	12.61	12.56	0.22	-0.06	11.64
2,100.00	1.03	90.28	2,099.68	-7.39	13.74	13.69	0.00	0.00	0.00
2,110.32	1.03	90.28	2,110.00	-7.39	13.93	13.88	0.00	0.00	0.00
Bell Canyon (Base of Salt) - 9 5/8"									
2,113.00	1.03	90.28	2,112.68	-7.39	13.97	13.93	0.00	0.00	0.00
2,200.00	0.75	247.08	2,199.68	-7.62	14.24	14.19	2.00	-0.33	180.23
2,300.00	2.73	256.92	2,299.63	-8.41	11.32	11.26	2.00	1.98	9.84
2,400.00	4.73	258.46	2,399.41	-9.77	4.96	4.90	2.00	2.00	1.55
2,500.00	6.73	259.09	2,498.91	-11.70	-4.83	-4.91	2.00	2.00	0.63
2,600.00	8.73	259.43	2,597.99	-14.21	-18.04	-18.13	2.00	2.00	0.34
2,700.00	10.73	259.65	2,696.55	-17.27	-34.66	-34.76	2.00	2.00	0.21
2,800.00	12.73	259.79	2,794.46	-20.89	-54.65	-54.78	2.00	2.00	0.15
2,900.00	14.73	259.90	2,891.60	-25.07	-78.01	-78.16	2.00	2.00	0.11
3,000.00	16.73	259.99	2,987.85	-29.80	-104.69	-104.88	2.00	2.00	0.08
3,019.72	17.12	260.00	3,006.71	-30.80	-110.35	-110.54	2.00	2.00	0.07
3,098.49	17.12	260.00	3,082.00	-34.83	-133.18	-133.40	0.00	0.00	0.00
Cherry Canyon									
3,100.00	17.12	260.00	3,083.44	-34.91	-133.62	-133.84	0.00	0.00	0.00
3,119.72	17.12	260.00	3,102.28	-35.91	-139.34	-139.56	0.00	0.00	0.00
3,200.00	16.93	254.55	3,179.05	-41.08	-162.24	-162.50	2.00	-0.24	-6.79
3,300.00	16.90	247.68	3,274.73	-50.48	-189.72	-190.04	2.00	-0.03	-6.88
3,406.83	17.12	240.41	3,376.90	-64.14	-217.76	-218.16	2.00	0.21	-6.80
3,500.00	17.12	240.41	3,465.95	-77.69	-241.61	-242.09	0.00	0.00	0.00
3,600.00	17.12	240.41	3,561.51	-92.23	-267.21	-267.78	0.00	0.00	0.00
3,700.00	17.12	240.41	3,657.08	-106.76	-292.80	-293.47	0.00	0.00	0.00
3,800.00	17.12	240.41	3,752.65	-121.30	-318.40	-319.16	0.00	0.00	0.00
3,900.00	17.12	240.41	3,848.22	-135.84	-344.00	-344.84	0.00	0.00	0.00
4,000.00	17.12	240.41	3,943.79	-150.37	-369.59	-370.53	0.00	0.00	0.00
4,068.23	17.12	240.41	4,009.00	-160.29	-387.06	-388.06	0.00	0.00	0.00
Brushy Canyon									
4,100.00	17.12	240.41	4,039.36	-164.91	-395.19	-396.22	0.00	0.00	0.00

Scientific Drilling, Intl

Planning Report

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Site:	Dalmatian/Shepherd 3-2-23-27 Fee Pad	North Reference:	Grid
Well:	Dalmatian 3-2-23-27 Fee 411H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,200.00	17.12	240.41	4,134.93	-179.45	-420.79	-421.91	0.00	0.00	0.00
4,300.00	17.12	240.41	4,230.50	-193.99	-446.38	-447.59	0.00	0.00	0.00
4,400.00	17.12	240.41	4,326.07	-208.52	-471.98	-473.28	0.00	0.00	0.00
4,500.00	17.12	240.41	4,421.64	-223.06	-497.58	-498.97	0.00	0.00	0.00
4,600.00	17.12	240.41	4,517.21	-237.60	-523.17	-524.65	0.00	0.00	0.00
4,700.00	17.12	240.41	4,612.78	-252.13	-548.77	-550.34	0.00	0.00	0.00
4,800.00	17.12	240.41	4,708.35	-266.67	-574.36	-576.03	0.00	0.00	0.00
4,900.00	17.12	240.41	4,803.92	-281.21	-599.96	-601.72	0.00	0.00	0.00
5,000.00	17.12	240.41	4,899.49	-295.75	-625.56	-627.40	0.00	0.00	0.00
5,100.00	17.12	240.41	4,995.05	-310.28	-651.15	-653.09	0.00	0.00	0.00
5,200.00	17.12	240.41	5,090.62	-324.82	-676.75	-678.78	0.00	0.00	0.00
5,300.00	17.12	240.41	5,186.19	-339.36	-702.35	-704.46	0.00	0.00	0.00
5,400.00	17.12	240.41	5,281.76	-353.89	-727.94	-730.15	0.00	0.00	0.00
5,500.00	17.12	240.41	5,377.33	-368.43	-753.54	-755.84	0.00	0.00	0.00
5,600.00	17.12	240.41	5,472.90	-382.97	-779.14	-781.53	0.00	0.00	0.00
5,697.42	17.12	240.41	5,566.00	-397.13	-804.07	-806.55	0.00	0.00	0.00
Bone Spring									
5,700.00	17.12	240.41	5,568.47	-397.51	-804.73	-807.21	0.00	0.00	0.00
5,800.00	17.12	240.41	5,664.04	-412.04	-830.33	-832.90	0.00	0.00	0.00
5,900.00	17.12	240.41	5,759.61	-426.58	-855.92	-858.59	0.00	0.00	0.00
6,000.00	17.12	240.41	5,855.18	-441.12	-881.52	-884.27	0.00	0.00	0.00
6,100.00	17.12	240.41	5,950.75	-455.65	-907.12	-909.96	0.00	0.00	0.00
6,145.26	17.12	240.41	5,994.00	-462.23	-918.70	-921.59	0.00	0.00	0.00
Avalon									
6,200.00	17.12	240.41	6,046.32	-470.19	-932.71	-935.65	0.00	0.00	0.00
6,300.00	17.12	240.41	6,141.89	-484.73	-958.31	-961.34	0.00	0.00	0.00
6,400.00	17.12	240.41	6,237.46	-499.27	-983.91	-987.02	0.00	0.00	0.00
6,500.00	17.12	240.41	6,333.03	-513.80	-1,009.50	-1,012.71	0.00	0.00	0.00
6,600.00	17.12	240.41	6,428.59	-528.34	-1,035.10	-1,038.40	0.00	0.00	0.00
6,629.42	17.12	240.41	6,456.71	-532.62	-1,042.63	-1,045.95	0.00	0.00	0.00
6,700.00	15.71	240.41	6,524.41	-542.47	-1,059.97	-1,063.36	2.00	-2.00	0.00
6,701.65	15.67	240.41	6,526.00	-542.69	-1,060.36	-1,063.75	2.00	-2.00	0.00
1st Bone Spring Sand									
6,800.00	13.71	240.41	6,621.13	-555.00	-1,082.05	-1,085.51	2.00	-2.00	0.00
6,900.00	11.71	240.41	6,718.68	-565.87	-1,101.17	-1,104.71	2.00	-2.00	0.00
6,925.84	11.19	240.41	6,744.00	-568.40	-1,105.63	-1,109.18	2.00	-2.00	0.00
2nd Bone Spring Lime									
7,000.00	9.71	240.41	6,816.93	-575.04	-1,117.33	-1,120.92	2.00	-2.00	0.00
7,100.00	7.71	240.41	6,915.77	-582.52	-1,130.49	-1,134.13	2.00	-2.00	0.00
7,200.00	5.71	240.41	7,015.08	-588.29	-1,140.65	-1,144.32	2.00	-2.00	0.00
7,300.00	3.71	240.41	7,114.74	-592.34	-1,147.79	-1,151.48	2.00	-2.00	0.00
7,319.30	3.32	240.41	7,134.00	-592.92	-1,148.81	-1,152.52	2.00	-2.00	0.00
2nd Bone Spring Sand									
7,400.00	1.71	240.41	7,214.62	-594.67	-1,151.89	-1,155.61	2.00	-2.00	0.00
7,485.39	0.00	0.00	7,300.00	-595.30	-1,153.00	-1,156.72	2.00	-2.00	0.00
7,500.00	0.00	0.00	7,314.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
7,502.39	0.00	0.00	7,317.00	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
3rd Bone Spring Lime									
7,600.00	0.00	0.00	7,414.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
7,700.00	0.00	0.00	7,514.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
7,800.00	0.00	0.00	7,614.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
7,900.00	0.00	0.00	7,714.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,000.00	0.00	0.00	7,814.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00

Scientific Drilling, Intl
Planning Report

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Wellbore:	Wellbore #1		
Design:	Plan #5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,100.00	0.00	0.00	7,914.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,200.00	0.00	0.00	8,014.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,300.00	0.00	0.00	8,114.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,400.00	0.00	0.00	8,214.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,500.00	0.00	0.00	8,314.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,600.00	0.00	0.00	8,414.61	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,666.43	0.00	0.00	8,481.04	-595.30	-1,153.00	-1,156.72	0.00	0.00	0.00
8,700.00	3.36	89.64	8,514.59	-595.29	-1,152.02	-1,155.73	10.00	10.00	0.00
8,703.53	3.71	89.64	8,518.12	-595.29	-1,151.80	-1,155.52	10.00	10.00	0.00
KOP									
8,750.00	8.36	89.64	8,564.32	-595.26	-1,146.92	-1,150.63	10.00	10.00	0.00
8,788.31	12.19	89.64	8,602.00	-595.22	-1,140.09	-1,143.80	10.00	10.00	0.00
3rd Bone Spring Sand									
8,800.00	13.36	89.64	8,613.41	-595.20	-1,137.50	-1,141.22	10.00	10.00	0.00
8,850.00	18.36	89.64	8,661.49	-595.12	-1,123.84	-1,127.56	10.00	10.00	0.00
8,900.00	23.36	89.64	8,708.20	-595.00	-1,106.05	-1,109.76	10.00	10.00	0.00
8,950.00	28.36	89.64	8,753.18	-594.86	-1,084.25	-1,087.96	10.00	10.00	0.00
9,000.00	33.36	89.64	8,796.08	-594.70	-1,058.61	-1,062.33	10.00	10.00	0.00
9,050.00	38.36	89.64	8,836.60	-594.52	-1,029.33	-1,033.05	10.00	10.00	0.00
9,100.00	43.36	89.64	8,874.40	-594.31	-996.64	-1,000.35	10.00	10.00	0.00
9,150.00	48.36	89.64	8,909.21	-594.08	-960.77	-964.48	10.00	10.00	0.00
9,195.39	52.90	89.64	8,938.00	-593.86	-925.69	-929.40	10.00	10.00	0.00
Wolfcamp Top									
9,200.00	53.36	89.64	8,940.77	-593.83	-922.00	-925.72	10.00	10.00	0.00
9,250.00	58.36	89.64	8,968.82	-593.57	-880.63	-884.35	10.00	10.00	0.00
9,252.26	58.58	89.64	8,970.00	-593.56	-878.71	-882.42	10.00	10.00	0.00
WC-X									
9,256.90	59.05	89.64	8,972.40	-593.53	-874.74	-878.45	10.00	10.00	0.00
Dal401H FTP									
9,300.00	63.36	89.64	8,993.16	-593.30	-836.98	-840.69	10.00	10.00	0.00
9,350.00	68.36	89.64	9,013.61	-593.01	-791.37	-795.08	10.00	10.00	0.00
9,400.00	73.36	89.64	9,030.00	-592.71	-744.15	-747.86	10.00	10.00	0.00
9,426.52	76.01	89.64	9,037.00	-592.54	-718.58	-722.28	10.00	10.00	0.00
WC-Y									
9,450.00	78.36	89.64	9,042.21	-592.40	-695.68	-699.39	10.00	10.00	0.00
9,464.75	79.83	89.64	9,045.00	-592.31	-681.19	-684.90	10.00	10.00	0.00
Top Target									
9,500.00	83.36	89.64	9,050.15	-592.09	-646.33	-650.04	10.00	10.00	0.00
9,550.00	88.36	89.64	9,053.76	-591.77	-596.48	-600.19	10.00	10.00	0.00
9,566.43	90.00	89.64	9,054.00	-591.67	-580.05	-583.76	10.00	10.00	0.00
Landing Point									
9,600.00	90.00	89.64	9,054.00	-591.45	-546.48	-550.19	0.00	0.00	0.00
9,700.00	90.00	89.64	9,054.00	-590.82	-446.48	-450.19	0.00	0.00	0.00
9,800.00	90.00	89.64	9,054.00	-590.18	-346.49	-350.19	0.00	0.00	0.00
9,900.00	90.00	89.64	9,054.00	-589.55	-246.49	-250.19	0.00	0.00	0.00
10,000.00	90.00	89.64	9,054.00	-588.92	-146.49	-150.19	0.00	0.00	0.00
10,100.00	90.00	89.64	9,054.00	-588.28	-46.49	-50.19	0.00	0.00	0.00
10,200.00	90.00	89.64	9,054.00	-587.65	53.51	49.81	0.00	0.00	0.00
10,300.00	90.00	89.64	9,054.00	-587.01	153.50	149.81	0.00	0.00	0.00
10,400.00	90.00	89.64	9,054.00	-586.38	253.50	249.81	0.00	0.00	0.00
10,500.00	90.00	89.64	9,054.00	-585.74	353.50	349.81	0.00	0.00	0.00
10,600.00	90.00	89.64	9,054.00	-585.11	453.50	449.81	0.00	0.00	0.00
10,700.00	90.00	89.64	9,054.00	-584.47	553.50	549.81	0.00	0.00	0.00

Scientific Drilling, Intl Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Dalmatian 3-2-23-27 Fee 411H
Company:	WPX Energy	TVD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Site:	Dalmatian/Shepherd 3-2-23-27 Fee Pad	North Reference:	Grid
Well:	Dalmatian 3-2-23-27 Fee 411H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,800.00	90.00	89.64	9,054.00	-583.84	653.49	649.81	0.00	0.00	0.00	
10,900.00	90.00	89.64	9,054.00	-583.21	753.49	749.81	0.00	0.00	0.00	
11,000.00	90.00	89.64	9,054.00	-582.57	853.49	849.81	0.00	0.00	0.00	
11,100.00	90.00	89.64	9,054.00	-581.94	953.49	949.81	0.00	0.00	0.00	
11,200.00	90.00	89.64	9,054.00	-581.30	1,053.49	1,049.81	0.00	0.00	0.00	
11,300.00	90.00	89.64	9,054.00	-580.67	1,153.48	1,149.81	0.00	0.00	0.00	
11,400.00	90.00	89.64	9,054.00	-580.03	1,253.48	1,249.81	0.00	0.00	0.00	
11,500.00	90.00	89.64	9,054.00	-579.40	1,353.48	1,349.81	0.00	0.00	0.00	
11,600.00	90.00	89.64	9,054.00	-578.77	1,453.48	1,449.81	0.00	0.00	0.00	
11,700.00	90.00	89.64	9,054.00	-578.13	1,553.48	1,549.81	0.00	0.00	0.00	
11,800.00	90.00	89.64	9,054.00	-577.50	1,653.47	1,649.81	0.00	0.00	0.00	
11,900.00	90.00	89.64	9,054.00	-576.86	1,753.47	1,749.81	0.00	0.00	0.00	
12,000.00	90.00	89.64	9,054.00	-576.23	1,853.47	1,849.81	0.00	0.00	0.00	
12,100.00	90.00	89.64	9,054.00	-575.59	1,953.47	1,949.81	0.00	0.00	0.00	
12,200.00	90.00	89.64	9,054.00	-574.96	2,053.46	2,049.81	0.00	0.00	0.00	
12,300.00	90.00	89.64	9,054.00	-574.33	2,153.46	2,149.81	0.00	0.00	0.00	
12,400.00	90.00	89.64	9,054.00	-573.69	2,253.46	2,249.81	0.00	0.00	0.00	
12,500.00	90.00	89.64	9,054.00	-573.06	2,353.46	2,349.81	0.00	0.00	0.00	
12,600.00	90.00	89.64	9,054.00	-572.42	2,453.46	2,449.81	0.00	0.00	0.00	
12,700.00	90.00	89.64	9,054.00	-571.79	2,553.45	2,549.81	0.00	0.00	0.00	
12,800.00	90.00	89.64	9,054.00	-571.15	2,653.45	2,649.81	0.00	0.00	0.00	
12,900.00	90.00	89.64	9,054.00	-570.52	2,753.45	2,749.81	0.00	0.00	0.00	
13,000.00	90.00	89.64	9,054.00	-569.88	2,853.45	2,849.81	0.00	0.00	0.00	
13,100.00	90.00	89.64	9,054.00	-569.25	2,953.45	2,949.81	0.00	0.00	0.00	
13,200.00	90.00	89.64	9,054.00	-568.62	3,053.44	3,049.81	0.00	0.00	0.00	
13,300.00	90.00	89.64	9,054.00	-567.98	3,153.44	3,149.81	0.00	0.00	0.00	
13,400.00	90.00	89.64	9,054.00	-567.35	3,253.44	3,249.81	0.00	0.00	0.00	
13,500.00	90.00	89.64	9,054.00	-566.71	3,353.44	3,349.81	0.00	0.00	0.00	
13,600.00	90.00	89.64	9,054.00	-566.08	3,453.44	3,449.81	0.00	0.00	0.00	
13,700.00	90.00	89.64	9,054.00	-565.44	3,553.43	3,549.81	0.00	0.00	0.00	
13,800.00	90.00	89.64	9,054.00	-564.81	3,653.43	3,649.81	0.00	0.00	0.00	
13,900.00	90.00	89.64	9,054.00	-564.18	3,753.43	3,749.81	0.00	0.00	0.00	
14,000.00	90.00	89.64	9,054.00	-563.54	3,853.43	3,849.81	0.00	0.00	0.00	
14,100.00	90.00	89.64	9,054.00	-562.91	3,953.43	3,949.81	0.00	0.00	0.00	
14,200.00	90.00	89.64	9,054.00	-562.27	4,053.42	4,049.81	0.00	0.00	0.00	
14,300.00	90.00	89.64	9,054.00	-561.64	4,153.42	4,149.81	0.00	0.00	0.00	
14,400.00	90.00	89.64	9,054.00	-561.00	4,253.42	4,249.81	0.00	0.00	0.00	
14,500.00	90.00	89.64	9,054.00	-560.37	4,353.42	4,349.81	0.00	0.00	0.00	
14,600.00	90.00	89.64	9,054.00	-559.74	4,453.42	4,449.81	0.00	0.00	0.00	
14,700.00	90.00	89.64	9,054.00	-559.10	4,553.41	4,549.81	0.00	0.00	0.00	
14,800.00	90.00	89.64	9,054.00	-558.47	4,653.41	4,649.81	0.00	0.00	0.00	
14,900.00	90.00	89.64	9,054.00	-557.83	4,753.41	4,749.81	0.00	0.00	0.00	
15,000.00	90.00	89.64	9,054.00	-557.20	4,853.41	4,849.81	0.00	0.00	0.00	
15,100.00	90.00	89.64	9,054.00	-556.56	4,953.41	4,949.81	0.00	0.00	0.00	
15,200.00	90.00	89.64	9,054.00	-555.93	5,053.40	5,049.81	0.00	0.00	0.00	
15,300.00	90.00	89.64	9,054.00	-555.29	5,153.40	5,149.81	0.00	0.00	0.00	
15,400.00	90.00	89.64	9,054.00	-554.66	5,253.40	5,249.81	0.00	0.00	0.00	
15,500.00	90.00	89.64	9,054.00	-554.03	5,353.40	5,349.81	0.00	0.00	0.00	
15,600.00	90.00	89.64	9,054.00	-553.39	5,453.40	5,449.81	0.00	0.00	0.00	
15,700.00	90.00	89.64	9,054.00	-552.76	5,553.39	5,549.81	0.00	0.00	0.00	
15,800.00	90.00	89.64	9,054.00	-552.12	5,653.39	5,649.81	0.00	0.00	0.00	
15,900.00	90.00	89.64	9,054.00	-551.49	5,753.39	5,749.81	0.00	0.00	0.00	
16,000.00	90.00	89.64	9,054.00	-550.85	5,853.39	5,849.81	0.00	0.00	0.00	
16,100.00	90.00	89.64	9,054.00	-550.22	5,953.39	5,949.81	0.00	0.00	0.00	

Scientific Drilling, Intl Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Dalmatian 3-2-23-27 Fee 411H
Company:	WPX Energy	TVD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Site:	Dalmatian/Shepherd 3-2-23-27 Fee Pad	North Reference:	Grid
Well:	Dalmatian 3-2-23-27 Fee 411H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,200.00	90.00	89.64	9,054.00	-549.59	6,053.38	6,049.81	0.00	0.00	0.00	
16,300.00	90.00	89.64	9,054.00	-548.95	6,153.38	6,149.81	0.00	0.00	0.00	
16,400.00	90.00	89.64	9,054.00	-548.32	6,253.38	6,249.81	0.00	0.00	0.00	
16,500.00	90.00	89.64	9,054.00	-547.68	6,353.38	6,349.81	0.00	0.00	0.00	
16,600.00	90.00	89.64	9,054.00	-547.05	6,453.38	6,449.81	0.00	0.00	0.00	
16,700.00	90.00	89.64	9,054.00	-546.41	6,553.37	6,549.81	0.00	0.00	0.00	
16,800.00	90.00	89.64	9,054.00	-545.78	6,653.37	6,649.81	0.00	0.00	0.00	
16,900.00	90.00	89.64	9,054.00	-545.15	6,753.37	6,749.81	0.00	0.00	0.00	
17,000.00	90.00	89.64	9,054.00	-544.51	6,853.37	6,849.81	0.00	0.00	0.00	
17,100.00	90.00	89.64	9,054.00	-543.88	6,953.37	6,949.81	0.00	0.00	0.00	
17,200.00	90.00	89.64	9,054.00	-543.24	7,053.36	7,049.81	0.00	0.00	0.00	
17,300.00	90.00	89.64	9,054.00	-542.61	7,153.36	7,149.81	0.00	0.00	0.00	
17,400.00	90.00	89.64	9,054.00	-541.97	7,253.36	7,249.81	0.00	0.00	0.00	
17,500.00	90.00	89.64	9,054.00	-541.34	7,353.36	7,349.81	0.00	0.00	0.00	
17,600.00	90.00	89.64	9,054.00	-540.70	7,453.36	7,449.81	0.00	0.00	0.00	
17,700.00	90.00	89.64	9,054.00	-540.07	7,553.35	7,549.81	0.00	0.00	0.00	
17,800.00	90.00	89.64	9,054.00	-539.44	7,653.35	7,649.81	0.00	0.00	0.00	
17,900.00	90.00	89.64	9,054.00	-538.80	7,753.35	7,749.81	0.00	0.00	0.00	
18,000.00	90.00	89.64	9,054.00	-538.17	7,853.35	7,849.81	0.00	0.00	0.00	
18,100.00	90.00	89.64	9,054.00	-537.53	7,953.35	7,949.81	0.00	0.00	0.00	
18,200.00	90.00	89.64	9,054.00	-536.90	8,053.34	8,049.81	0.00	0.00	0.00	
18,300.00	90.00	89.64	9,054.00	-536.26	8,153.34	8,149.81	0.00	0.00	0.00	
18,400.00	90.00	89.64	9,054.00	-535.63	8,253.34	8,249.81	0.00	0.00	0.00	
18,500.00	90.00	89.64	9,054.00	-535.00	8,353.34	8,349.81	0.00	0.00	0.00	
18,600.00	90.00	89.64	9,054.00	-534.36	8,453.34	8,449.81	0.00	0.00	0.00	
18,700.00	90.00	89.64	9,054.00	-533.73	8,553.33	8,549.81	0.00	0.00	0.00	
18,800.00	90.00	89.64	9,054.00	-533.09	8,653.33	8,649.81	0.00	0.00	0.00	
18,900.00	90.00	89.64	9,054.00	-532.46	8,753.33	8,749.81	0.00	0.00	0.00	
19,000.00	90.00	89.64	9,054.00	-531.82	8,853.33	8,849.81	0.00	0.00	0.00	
19,100.00	90.00	89.64	9,054.00	-531.19	8,953.33	8,949.81	0.00	0.00	0.00	
19,200.00	90.00	89.64	9,054.00	-530.56	9,053.32	9,049.81	0.00	0.00	0.00	
19,250.58	90.00	89.64	9,054.00	-530.23	9,103.90	9,100.39	0.00	0.00	0.00	
Dai401H LTP										
19,300.00	90.00	89.64	9,054.00	-529.92	9,153.32	9,149.81	0.00	0.00	0.00	
19,350.58	90.00	89.64	9,054.00	-529.60	9,203.90	9,200.39	0.00	0.00	0.00	
Dai401H BHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Dal401H FTP	0.00	0.00	8,972.00	-595.30	-874.50	484,471.00	586,970.80	32.331796	-104.185589
- plan misses target center by 1.83usft at 9256.89usft MD (8972.40 TVD, -593.53 N, -874.75 E)									
- Point									
Dal401H LTP	0.00	0.00	9,054.00	-530.50	9,103.90	484,535.80	596,949.20	32.331932	-104.153283
- plan misses target center by 0.27usft at 19250.58usft MD (9054.00 TVD, -530.23 N, 9103.90 E)									
- Point									
Dal401H BHL	0.00	0.00	9,054.00	-529.60	9,203.90	484,536.70	597,049.20	32.331934	-104.152959
- plan hits target center									
- Point									

Scientific Drilling, Intl Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Dalmatian 3-2-23-27 Fee 411H
Company:	WPX Energy	TVD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	GL 3112 + KB 26 = @ 3138.00usft (HP 265)
Site:	Dalmatian/Shepherd 3-2-23-27 Fee Pad	North Reference:	Grid
Well:	Dalmatian 3-2-23-27 Fee 411H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,110.32	2,110.00	9 5/8"	9-5/8	12-1/4

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
432.02	432.00	Salado				
750.02	750.00	Castile				
2,110.32	2,110.00	Bell Canyon (Base of Salt)				
3,098.49	3,082.00	Cherry Canyon				
4,068.23	4,009.00	Brushy Canyon				
5,697.42	5,566.00	Bone Spring				
6,145.26	5,994.00	Avalon				
6,701.65	6,526.00	1st Bone Spring Sand				
6,925.84	6,744.00	2nd Bone Spring Lime				
7,319.30	7,134.00	2nd Bone Spring Sand				
7,502.39	7,317.00	3rd Bone Spring Lime				
8,788.31	8,602.00	3rd Bone Spring Sand				
9,195.39	8,938.00	Wolfcamp Top				
9,252.26	8,970.00	WC_X				
9,426.52	9,037.00	WC_Y				
9,464.75	9,045.00	Top Target				
9,566.43	9,054.00	Landing Point				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,703.53				KOP