

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Devon Energy Production Company, L.P. 333 West Sheridan, Oklahoma City, OK 73102		² OGRID Number 6137
		³ Reason for Filing Code/ Effective Date NW / 11/4/20
⁴ API Number 30-025-46833	⁵ Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP	⁶ Pool Code 98135
⁷ Property Code 316705	⁸ Property Name Blue Krait 23-14 Fed	⁹ Well Number 32H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	24S	33E		245	South	1040	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	14	24S	33E		34	North	2615	East	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 11/4/20	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

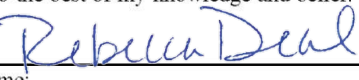
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
174238	Enterprise 201 Park Avenue, Ste 1600 Oklahoma City, OK 73102	Oil
371960	Lucid Energy Delaware, LLC 3100 McKinnon St., Ste. 800, Dallas, TX 75201	Gas

IV. Well Completion Data

²¹ Spud Date 2/8/20	²² Ready Date 11/4/20	²³ TD 23020	²⁴ PBDT 22957	²⁵ Perforations 12990 - 22900	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	1306	955 sx CIA; Circ 355 sx		
9.875	8.625	12024	650 sx CIA; Circ 0 sx		
7.875	5.5	23000	3215 sx CIH; Circ 343 sx		
	Tubing: 2.875	12,464'			

V. Well Test Data

³¹ Date New Oil 11/29/20	³² Gas Delivery Date 11/29/20	³³ Test Date 11/29/20	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 1688 psi	³⁶ Csg. Pressure 5420 psi
³⁷ Choke Size	³⁸ Oil 2213 bbl	³⁹ Water 3011 bbl	⁴⁰ Gas 4088 mcf		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Rebecca Deal			Approved by: KURT SIMMONS		
Title: Regulatory Analyst			Title: NMOCD, SANTA FE		
E-mail Address: Rebecca.Deal@dmn.com			Approval Date: 08/25/2021		
Date: 12/3/2020		Phone: 405-228-8429			

DISTRICT I
1625 N. FRENCH DR., HOBBES, NM 86240
Phone: (575) 383-6161 Fax: (575) 383-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 86210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-46833	Pool Code 98135	Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP
Property Code 316705	Property Name BLUE KRAIT 23-14 FED	Well Number 32H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3555.8'

Surface Location

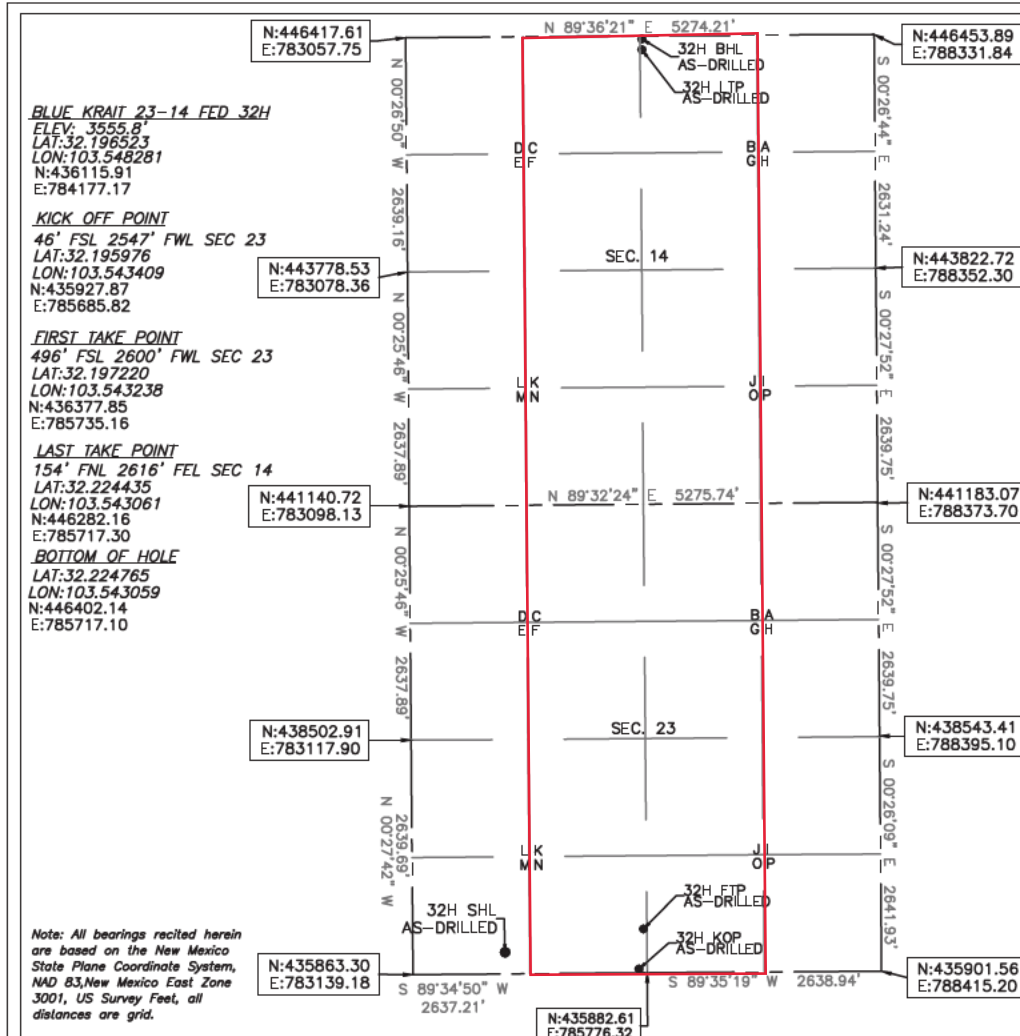
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	24-S	33-E		245	SOUTH	1040	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	14	24-S	33-E		34	NORTH	2615	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 11/17/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

04/29/2020

Date of Survey

Signature & Seal of Professional Surveyor



11/2/20

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☐ As Drilled ☒

API # 30-025-46833		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: BLUE KRAIT 23-14 FED	Well Number 32H

Kick Off Point (KOP)

UL N	Section 23	Township 24-S	Range 33-E	Lot	Feet 46	From N/S SOUTH	Feet 2547	From E/W WEST	County LEA
Latitude 32.195976					Longitude 103.543409			NAD	

First Take Point (FTP)

UL N	Section 23	Township 24-S	Range 33-E	Lot	Feet 496	From N/S SOUTH	Feet 2600	From E/W WEST	County LEA
Latitude 32.197220					Longitude 103.543238			NAD 83	

Last Take Point (LTP)

UL B	Section 14	Township 24-S	Range 33-E	Lot	Feet 154	From N/S NORTH	Feet 2616	From E/W EAST	County LEA
Latitude 32.224435					Longitude 103.543061			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: BLUE KRAIT 23-14 FED	Well Number 31H

KZ 06/29/2018

Devon

SURVEY REPORT

Blue Krait 23-14 Fed 32

Patterson 575

I, Deanna Jacobs, certify the surveys supplied on
Blue Krait 23-14 Fed 32H are correct and accurate to the best of my
knowledge and are supported by actual field data.

Deanna Jacobs

Date: 4/29/2020



The **Ultimate Partner** In Wellbore Placement



Devon Energy

Lea County, NM (NAD83 NME)

Blue Krait 23-14 Fed

#32H

OH

Design: As Drilled

Standard Survey Report

29 April, 2020



www.scientificdrilling.com





Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site		Blue Krait 23-14 Fed				
Site Position:		Northing:	436,115.47	usft	Latitude:	32.196523
From:	Map	Easting:	784,117.18	usft	Longitude:	-103.548475
Position Uncertainty:	0.00	Slot Radius:	13-3/16	"	Grid Convergence:	0.42 °

Well	#32H					
Well Position	+N/-S	0.00 usft	Northing:	436,115.91 usft	Latitude:	32.196523
	+E/-W	0.00 usft	Easting:	784,177.17 usft	Longitude:	-103.548281
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,556.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	1/1/2020	6.58	59.83	47,816.70000000

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	8.38	

Survey Program	Date	4/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
145.00	11,974.00	SDI Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM	
12,046.00	23,020.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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	
145.00	0.51	195.63	145.00	-0.62	-0.17	-0.64	0.35	0.35	0.00	
175.00	0.55	195.21	175.00	-0.89	-0.25	-0.92	0.13	0.13	-1.40	
266.00	0.57	221.31	265.99	-1.65	-0.66	-1.73	0.28	0.02	28.68	
358.00	0.43	186.13	357.99	-2.34	-1.00	-2.46	0.36	-0.15	-38.24	
450.00	0.62	225.66	449.99	-3.03	-1.39	-3.20	0.43	0.21	42.97	
542.00	0.54	209.14	541.98	-3.76	-1.96	-4.00	0.20	-0.09	-17.96	
634.00	0.58	206.90	633.98	-4.55	-2.38	-4.85	0.05	0.04	-2.43	
724.00	0.40	177.93	723.97	-5.27	-2.58	-5.59	0.33	-0.20	-32.19	
815.00	0.71	174.16	814.97	-6.15	-2.51	-6.45	0.34	0.34	-4.14	



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
906.00	0.53	150.70	905.96	-7.08	-2.24	-7.33	0.34	-0.20	-25.78
997.00	0.89	178.85	996.96	-8.15	-2.02	-8.36	0.54	0.40	30.93
1,087.00	0.61	156.09	1,086.95	-9.29	-1.82	-9.45	0.45	-0.31	-25.29
1,180.00	0.85	154.26	1,179.94	-10.36	-1.32	-10.44	0.26	0.26	-1.97
1,233.00	0.74	163.33	1,232.94	-11.04	-1.05	-11.08	0.31	-0.21	17.11
1,354.00	0.70	152.74	1,353.93	-12.45	-0.48	-12.39	0.11	-0.03	-8.75
1,417.00	1.09	113.69	1,416.92	-13.03	0.24	-12.86	1.11	0.62	-61.98
1,511.00	1.91	91.71	1,510.89	-13.44	2.63	-12.91	1.05	0.87	-23.38
1,606.00	2.36	91.20	1,605.82	-13.52	6.16	-12.48	0.47	0.47	-0.54
1,700.00	4.07	106.51	1,699.67	-14.51	11.30	-12.71	2.02	1.82	16.29
1,794.00	5.77	108.32	1,793.32	-16.95	18.98	-14.00	1.82	1.81	1.93
1,889.00	5.91	105.63	1,887.83	-19.77	28.23	-15.44	0.32	0.15	-2.83
1,982.00	6.92	108.73	1,980.25	-22.85	38.14	-17.05	1.15	1.09	3.33
2,077.00	8.31	105.28	2,074.41	-26.50	50.19	-18.90	1.54	1.46	-3.63
2,171.00	9.71	100.46	2,167.25	-29.73	64.53	-20.01	1.69	1.49	-5.13
2,266.00	11.13	97.82	2,260.68	-32.43	81.50	-20.21	1.58	1.49	-2.78
2,361.00	13.07	97.20	2,353.56	-35.03	101.24	-19.89	2.05	2.04	-0.65
2,454.00	14.66	94.41	2,443.85	-37.25	123.41	-18.86	1.85	1.71	-3.00
2,548.00	14.85	95.29	2,534.75	-39.28	147.26	-17.39	0.31	0.20	0.94
2,643.00	14.76	93.27	2,626.60	-41.09	171.47	-15.65	0.55	-0.09	-2.13
2,737.00	14.27	92.89	2,717.60	-42.36	194.99	-13.48	0.53	-0.52	-0.40
2,832.00	14.00	90.75	2,809.72	-43.10	218.18	-10.83	0.62	-0.28	-2.25
2,927.00	13.58	90.70	2,901.98	-43.38	240.82	-7.81	0.44	-0.44	-0.05
3,021.00	13.15	91.03	2,993.44	-43.71	262.54	-4.97	0.46	-0.46	0.35
3,115.00	13.23	89.40	3,084.96	-43.79	283.99	-1.92	0.40	0.09	-1.73
3,209.00	13.02	86.58	3,176.50	-43.05	305.32	1.92	0.72	-0.22	-3.00
3,303.00	12.61	92.61	3,268.16	-42.88	326.14	5.12	1.49	-0.44	6.41
3,398.00	12.74	101.40	3,360.86	-45.42	346.77	5.61	2.03	0.14	9.25
3,493.00	12.97	101.24	3,453.48	-49.57	367.49	4.53	0.24	0.24	-0.17
3,587.00	12.76	102.03	3,545.12	-53.79	387.99	3.34	0.29	-0.22	0.84
3,682.00	12.38	99.92	3,637.84	-57.73	408.28	2.40	0.63	-0.40	-2.22
3,777.00	11.62	98.31	3,730.76	-60.87	427.78	2.14	0.87	-0.80	-1.69
3,872.00	11.85	97.92	3,823.78	-63.60	446.91	2.23	0.26	0.24	-0.41
3,966.00	11.99	98.83	3,915.75	-66.43	466.12	2.23	0.25	0.15	0.97
4,061.00	13.06	99.42	4,008.49	-69.70	486.46	1.96	1.13	1.13	0.62
4,155.00	12.61	98.16	4,100.14	-72.89	507.09	1.81	0.56	-0.48	-1.34
4,250.00	11.71	97.42	4,193.01	-75.61	526.92	2.01	0.96	-0.95	-0.78
4,345.00	12.54	98.31	4,285.89	-78.34	546.68	2.19	0.90	0.87	0.94
4,439.00	13.51	95.89	4,377.47	-80.95	567.70	2.68	1.18	1.03	-2.57
4,533.00	13.29	98.67	4,468.91	-83.70	589.31	3.10	0.72	-0.23	2.96
4,628.00	14.04	101.55	4,561.22	-87.65	611.39	2.41	1.07	0.79	3.03
4,723.00	12.49	102.43	4,653.69	-92.17	632.71	1.05	1.65	-1.63	0.93
4,817.00	13.35	102.26	4,745.30	-96.67	653.25	-0.41	0.92	0.91	-0.18



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,912.00	14.93	104.40	4,837.42	-102.04	675.82	-2.43	1.75	1.66	2.25
5,007.00	16.22	105.50	4,928.93	-108.63	700.46	-5.36	1.39	1.36	1.16
5,101.00	14.84	106.01	5,019.50	-115.46	724.68	-8.58	1.48	-1.47	0.54
5,196.00	13.12	103.05	5,111.68	-121.25	746.88	-11.08	1.96	-1.81	-3.12
5,291.00	10.88	103.90	5,204.60	-125.84	766.09	-12.81	2.37	-2.36	0.89
5,386.00	10.68	99.34	5,297.93	-129.42	783.48	-13.82	0.92	-0.21	-4.80
5,481.00	11.98	98.56	5,391.07	-132.32	801.92	-14.00	1.38	1.37	-0.82
5,574.00	13.63	94.56	5,481.76	-134.62	822.39	-13.30	2.01	1.77	-4.30
5,668.00	16.42	94.14	5,572.54	-136.46	846.68	-11.58	2.97	2.97	-0.45
5,762.00	18.21	92.19	5,662.27	-137.98	874.61	-9.01	2.00	1.90	-2.07
5,857.00	17.50	91.80	5,752.70	-139.00	903.72	-5.77	0.76	-0.75	-0.41
5,952.00	17.38	90.62	5,843.33	-139.60	932.19	-2.22	0.39	-0.13	-1.24
6,046.00	17.38	90.72	5,933.04	-139.93	960.26	1.55	0.03	0.00	0.11
6,141.00	16.99	90.64	6,023.80	-140.26	988.33	5.31	0.41	-0.41	-0.08
6,235.00	16.17	90.06	6,113.89	-140.43	1,015.15	9.05	0.89	-0.87	-0.62
6,329.00	15.03	89.13	6,204.43	-140.26	1,040.43	12.91	1.24	-1.21	-0.99
6,424.00	14.37	87.47	6,296.32	-139.55	1,064.52	17.12	0.82	-0.69	-1.75
6,518.00	13.97	86.25	6,387.46	-138.30	1,087.50	21.71	0.53	-0.43	-1.30
6,612.00	14.17	84.72	6,478.64	-136.49	1,110.28	26.82	0.45	0.21	-1.63
6,707.00	13.73	84.98	6,570.83	-134.44	1,133.09	32.18	0.47	-0.46	0.27
6,801.00	12.99	88.24	6,662.29	-133.14	1,154.76	36.62	1.12	-0.79	3.47
6,896.00	13.50	88.98	6,754.76	-132.61	1,176.52	40.31	0.57	0.54	0.78
6,991.00	14.03	94.91	6,847.04	-133.40	1,199.08	42.82	1.59	0.56	6.24
7,086.00	13.58	92.88	6,939.30	-134.95	1,221.69	44.59	0.70	-0.47	-2.14
7,180.00	12.71	95.92	7,030.83	-136.57	1,243.00	46.09	1.18	-0.93	3.23
7,275.00	11.72	100.21	7,123.68	-139.36	1,262.89	46.23	1.41	-1.04	4.52
7,369.00	11.32	101.37	7,215.79	-142.87	1,281.33	45.45	0.49	-0.43	1.23
7,464.00	10.36	101.59	7,309.09	-146.42	1,298.84	44.48	1.01	-1.01	0.23
7,559.00	10.11	102.03	7,402.58	-149.87	1,315.37	43.47	0.28	-0.26	0.46
7,654.00	9.64	102.47	7,496.17	-153.33	1,331.29	42.38	0.50	-0.49	0.46
7,749.00	9.24	100.88	7,589.89	-156.49	1,346.54	41.48	0.50	-0.42	-1.67
7,843.00	8.45	101.35	7,682.77	-159.27	1,360.73	40.79	0.84	-0.84	0.50
7,938.00	7.79	101.29	7,776.82	-161.91	1,373.88	40.10	0.69	-0.69	-0.06
8,032.00	6.87	100.02	7,870.05	-164.13	1,385.67	39.62	0.99	-0.98	-1.35
8,127.00	6.28	100.61	7,964.42	-166.08	1,396.37	39.25	0.63	-0.62	0.62
8,221.00	6.16	97.32	8,057.87	-167.67	1,406.43	39.15	0.40	-0.13	-3.50
8,315.00	5.50	96.94	8,151.38	-168.85	1,415.90	39.36	0.70	-0.70	-0.40
8,409.00	5.16	98.93	8,244.97	-170.05	1,424.55	39.43	0.41	-0.36	2.12
8,503.00	4.69	99.16	8,338.63	-171.32	1,432.52	39.34	0.50	-0.50	0.24
8,598.00	4.16	100.02	8,433.34	-172.54	1,439.74	39.18	0.56	-0.56	0.91
8,693.00	3.90	100.26	8,528.11	-173.71	1,446.32	38.98	0.27	-0.27	0.25
8,788.00	3.64	96.56	8,622.90	-174.63	1,452.49	38.97	0.37	-0.27	-3.89
8,881.00	3.17	97.26	8,715.74	-175.30	1,457.97	39.11	0.51	-0.51	0.75



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,976.00	2.97	96.73	8,810.60	-175.92	1,463.02	39.24	0.21	-0.21	-0.56
9,070.00	2.74	97.30	8,904.49	-176.49	1,467.67	39.35	0.25	-0.24	0.61
9,164.00	2.43	95.91	8,998.39	-176.98	1,471.88	39.48	0.34	-0.33	-1.48
9,259.00	1.80	91.66	9,093.32	-177.23	1,475.38	39.74	0.68	-0.66	-4.47
9,353.00	1.29	88.48	9,187.29	-177.24	1,477.91	40.09	0.55	-0.54	-3.38
9,448.00	1.27	81.27	9,282.27	-177.05	1,480.02	40.59	0.17	-0.02	-7.59
9,542.00	0.54	90.74	9,376.25	-176.90	1,481.49	40.95	0.79	-0.78	10.07
9,637.00	0.79	76.87	9,471.25	-176.76	1,482.58	41.25	0.31	0.26	-14.60
9,732.00	0.95	44.14	9,566.24	-176.05	1,483.76	42.13	0.54	0.17	-34.45
9,827.00	0.76	14.04	9,661.23	-174.87	1,484.47	43.40	0.51	-0.20	-31.68
9,921.00	1.35	28.37	9,755.21	-173.29	1,485.14	45.06	0.68	0.63	15.24
10,016.00	1.14	54.10	9,850.19	-171.75	1,486.44	46.77	0.62	-0.22	27.08
10,111.00	0.51	97.72	9,945.18	-171.25	1,487.62	47.44	0.89	-0.66	45.92
10,205.00	0.93	156.57	10,039.17	-172.01	1,488.34	46.79	0.85	0.45	62.61
10,300.00	0.83	157.31	10,134.16	-173.35	1,488.91	45.55	0.11	-0.11	0.78
10,394.00	0.83	172.29	10,228.15	-174.65	1,489.27	44.31	0.23	0.00	15.94
10,489.00	1.02	156.09	10,323.14	-176.11	1,489.70	42.93	0.34	0.20	-17.05
10,584.00	0.84	162.73	10,418.13	-177.55	1,490.25	41.59	0.22	-0.19	6.99
10,678.00	0.89	165.73	10,512.12	-178.91	1,490.64	40.30	0.07	0.05	3.19
10,772.00	0.74	176.48	10,606.11	-180.23	1,490.85	39.03	0.23	-0.16	11.44
10,867.00	0.66	117.04	10,701.10	-181.09	1,491.38	38.25	0.73	-0.08	-62.57
10,961.00	0.95	126.75	10,795.09	-181.80	1,492.49	37.71	0.34	0.31	10.33
11,056.00	0.67	112.75	10,890.08	-182.49	1,493.63	37.20	0.36	-0.29	-14.74
11,151.00	0.83	121.66	10,985.07	-183.06	1,494.73	36.79	0.21	0.17	9.38
11,245.00	1.16	133.34	11,079.06	-184.07	1,496.00	35.97	0.41	0.35	12.43
11,339.00	1.13	129.87	11,173.04	-185.32	1,497.40	34.95	0.08	-0.03	-3.69
11,434.00	1.00	111.91	11,268.03	-186.23	1,498.89	34.26	0.38	-0.14	-18.91
11,528.00	1.12	116.57	11,362.01	-186.95	1,500.47	33.78	0.16	0.13	4.96
11,623.00	0.67	91.86	11,457.00	-187.38	1,501.86	33.56	0.61	-0.47	-26.01
11,717.00	1.05	101.63	11,550.99	-187.57	1,503.25	33.57	0.43	0.40	10.39
11,811.00	0.99	90.18	11,644.97	-187.75	1,504.91	33.64	0.23	-0.06	-12.18
11,905.00	1.04	93.19	11,738.96	-187.80	1,506.57	33.83	0.08	0.05	3.20
11,974.00	0.72	109.41	11,807.95	-187.98	1,507.61	33.80	0.58	-0.46	23.51
12,046.00	1.05	82.80	11,879.94	-188.04	1,508.69	33.90	0.72	0.46	-36.96
12,140.00	0.77	114.06	11,973.93	-188.19	1,510.12	33.96	0.60	-0.30	33.26
12,235.00	0.88	126.20	12,068.92	-188.88	1,511.29	33.44	0.22	0.12	12.78
12,329.00	9.34	7.48	12,162.52	-181.73	1,512.87	40.75	10.42	9.00	-126.30
12,424.00	20.29	4.08	12,254.22	-157.58	1,515.05	64.96	11.56	11.53	-3.58
12,480.42	29.08	4.80	12,305.44	-134.12	1,516.90	88.44	15.58	15.57	1.27
100 FSL 12480.42 MD 12305.44 TVD									
12,518.00	34.93	5.09	12,337.29	-114.29	1,518.62	108.31	15.58	15.58	0.77
12,611.00	42.82	8.37	12,409.65	-56.40	1,525.59	166.60	8.77	8.48	3.53
12,706.00	50.25	8.42	12,474.95	11.77	1,535.65	235.50	7.82	7.82	0.05
12,801.00	57.33	4.99	12,531.05	87.84	1,544.49	312.05	8.00	7.45	-3.61



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,895.00	68.86	4.32	12,573.51	171.25	1,551.26	395.55	12.28	12.27	-0.71	
12,990.00	77.97	4.22	12,600.60	261.95	1,558.03	486.27	9.59	9.59	-0.11	
13,084.00	88.12	3.73	12,611.97	354.91	1,564.48	579.18	10.81	10.80	-0.52	
13,178.00	91.28	1.95	12,612.46	448.78	1,569.14	672.72	3.86	3.36	-1.89	
13,272.00	91.65	2.49	12,610.06	542.67	1,572.78	766.15	0.70	0.39	0.57	
13,367.00	90.07	2.99	12,608.63	637.55	1,577.32	860.68	1.74	-1.66	0.53	
13,461.00	89.16	3.08	12,609.26	731.42	1,582.30	954.26	0.97	-0.97	0.10	
13,556.00	89.33	1.56	12,610.51	826.33	1,586.14	1,048.72	1.61	0.18	-1.60	
13,651.00	89.30	359.45	12,611.65	921.31	1,586.98	1,142.81	2.22	-0.03	-2.22	
13,745.00	88.86	359.35	12,613.16	1,015.29	1,586.00	1,235.65	0.48	-0.47	-0.11	
13,839.00	90.24	357.25	12,613.90	1,109.24	1,583.21	1,328.19	2.67	1.47	-2.23	
13,934.00	91.31	359.01	12,612.61	1,204.18	1,580.11	1,421.66	2.17	1.13	1.85	
14,029.00	90.74	358.86	12,610.91	1,299.15	1,578.34	1,515.35	0.62	-0.60	-0.16	
14,124.00	90.50	358.20	12,609.89	1,394.11	1,575.91	1,608.94	0.74	-0.25	-0.69	
14,218.00	94.00	359.51	12,606.20	1,488.00	1,574.03	1,701.56	3.98	3.72	1.39	
14,313.00	90.00	0.71	12,602.88	1,582.92	1,574.21	1,795.49	4.40	-4.21	1.26	
14,407.00	89.19	0.78	12,603.54	1,676.91	1,575.43	1,888.66	0.86	-0.86	0.07	
14,502.00	89.70	1.60	12,604.46	1,771.88	1,577.41	1,982.90	1.02	0.54	0.86	
14,597.00	91.21	0.22	12,603.71	1,866.86	1,578.91	2,077.09	2.15	1.59	-1.45	
14,691.00	92.18	1.08	12,600.93	1,960.81	1,579.98	2,170.19	1.38	1.03	0.91	
14,786.00	89.87	359.48	12,599.23	2,055.79	1,580.44	2,264.22	2.96	-2.43	-1.68	
14,880.00	90.74	358.95	12,598.73	2,149.78	1,579.16	2,357.02	1.08	0.93	-0.56	
14,975.00	90.27	358.37	12,597.89	2,244.75	1,576.93	2,450.65	0.79	-0.49	-0.61	
15,069.00	90.27	358.33	12,597.45	2,338.71	1,574.23	2,543.21	0.04	0.00	-0.04	
15,164.00	89.97	357.35	12,597.25	2,433.64	1,570.65	2,636.60	1.08	-0.32	-1.03	
15,258.00	89.43	356.86	12,597.74	2,527.52	1,565.90	2,728.79	0.78	-0.57	-0.52	
15,353.00	91.10	358.92	12,597.30	2,622.44	1,562.40	2,822.19	2.79	1.76	2.17	
15,447.00	91.42	357.37	12,595.24	2,716.37	1,559.36	2,914.67	1.68	0.34	-1.65	
15,542.00	90.50	358.98	12,593.64	2,811.30	1,556.34	3,008.15	1.95	-0.97	1.69	
15,636.00	88.33	359.01	12,594.60	2,905.28	1,554.69	3,100.88	2.31	-2.31	0.03	
15,731.00	90.50	359.53	12,595.57	3,000.26	1,553.48	3,194.67	2.35	2.28	0.55	
15,825.00	90.84	358.60	12,594.48	3,094.24	1,551.94	3,287.42	1.05	0.36	-0.99	
15,920.00	90.94	358.89	12,593.00	3,189.20	1,549.86	3,381.07	0.32	0.11	0.31	
16,014.00	91.92	359.37	12,590.65	3,283.16	1,548.44	3,473.81	1.16	1.04	0.51	
16,108.00	91.75	359.44	12,587.64	3,377.11	1,547.46	3,566.62	0.20	-0.18	0.07	
16,202.00	92.28	0.60	12,584.34	3,471.05	1,547.49	3,659.56	1.36	0.56	1.23	
16,297.00	90.54	1.13	12,582.00	3,566.01	1,548.93	3,753.71	1.91	-1.83	0.56	
16,392.00	90.44	0.19	12,581.19	3,660.99	1,550.02	3,847.84	1.00	-0.11	-0.99	
16,486.00	90.30	359.68	12,580.58	3,754.99	1,549.91	3,940.82	0.56	-0.15	-0.54	
16,581.00	89.70	359.50	12,580.58	3,849.99	1,549.23	4,034.70	0.66	-0.63	-0.19	
16,676.00	89.57	359.64	12,581.19	3,944.98	1,548.52	4,128.58	0.20	-0.14	0.15	
16,770.00	89.33	359.40	12,582.09	4,038.98	1,547.73	4,221.45	0.36	-0.26	-0.26	
16,864.00	89.70	359.42	12,582.88	4,132.97	1,546.77	4,314.30	0.39	0.39	0.02	



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,959.00	89.83	0.79	12,583.27	4,227.96	1,546.94	4,408.31	1.45	0.14	1.44
17,053.00	89.67	0.09	12,583.68	4,321.96	1,547.66	4,501.40	0.76	-0.17	-0.74
17,148.00	89.80	0.02	12,584.12	4,416.96	1,547.75	4,595.40	0.16	0.14	-0.07
17,242.00	89.60	359.52	12,584.62	4,510.96	1,547.38	4,688.34	0.57	-0.21	-0.53
17,337.00	89.56	359.24	12,585.31	4,605.95	1,546.35	4,782.17	0.30	-0.04	-0.29
17,432.00	90.27	357.34	12,585.45	4,700.90	1,543.51	4,875.69	2.14	0.75	-2.00
17,527.00	90.30	358.93	12,584.98	4,795.85	1,540.42	4,969.17	1.67	0.03	1.67
17,621.00	89.93	357.65	12,584.79	4,889.80	1,537.62	5,061.72	1.42	-0.39	-1.36
17,716.00	91.47	359.71	12,583.63	4,984.76	1,535.43	5,155.34	2.71	1.62	2.17
17,811.00	90.77	359.55	12,581.77	5,079.74	1,534.82	5,249.22	0.76	-0.74	-0.17
17,906.00	90.94	358.28	12,580.36	5,174.71	1,533.02	5,342.91	1.35	0.18	-1.34
18,000.00	90.97	0.02	12,578.79	5,268.69	1,531.62	5,435.68	1.85	0.03	1.85
18,095.00	91.71	0.26	12,576.57	5,363.66	1,531.85	5,529.67	0.82	0.78	0.25
18,190.00	90.24	359.28	12,574.95	5,458.64	1,531.47	5,623.58	1.86	-1.55	-1.03
18,285.00	89.33	358.33	12,575.31	5,553.62	1,529.49	5,717.25	1.38	-0.96	-1.00
18,379.00	89.63	1.62	12,576.16	5,647.60	1,529.45	5,810.23	3.51	0.32	3.50
18,474.00	90.00	0.63	12,576.47	5,742.58	1,531.32	5,904.46	1.11	0.39	-1.04
18,569.00	89.70	1.28	12,576.72	5,837.57	1,532.90	5,998.67	0.75	-0.32	0.68
18,663.00	89.90	1.14	12,577.05	5,931.54	1,534.88	6,091.93	0.26	0.21	-0.15
18,758.00	90.97	1.50	12,576.32	6,026.51	1,537.07	6,186.20	1.19	1.13	0.38
18,853.00	92.04	0.63	12,573.83	6,121.46	1,538.84	6,280.40	1.45	1.13	-0.92
18,947.00	91.45	359.98	12,570.97	6,215.42	1,539.34	6,373.42	0.93	-0.63	-0.69
19,041.00	90.30	359.34	12,569.53	6,309.40	1,538.78	6,466.32	1.40	-1.22	-0.68
19,136.00	91.04	0.14	12,568.42	6,404.39	1,538.35	6,560.23	1.15	0.78	0.84
19,230.00	91.62	359.64	12,566.24	6,498.37	1,538.17	6,653.18	0.81	0.62	-0.53
19,325.00	91.75	358.61	12,563.44	6,593.31	1,536.72	6,746.90	1.09	0.14	-1.08
19,419.00	89.73	357.87	12,562.23	6,687.26	1,533.83	6,839.42	2.29	-2.15	-0.79
19,514.00	89.13	358.55	12,563.18	6,782.20	1,530.86	6,932.92	0.95	-0.63	0.72
19,608.00	88.59	357.17	12,565.05	6,876.12	1,527.36	7,025.32	1.58	-0.57	-1.47
19,703.00	90.17	359.61	12,566.07	6,971.06	1,524.69	7,118.86	3.06	1.66	2.57
19,798.00	90.70	359.64	12,565.35	7,066.06	1,524.07	7,212.75	0.56	0.56	0.03
19,893.00	90.91	358.50	12,564.02	7,161.04	1,522.52	7,306.49	1.22	0.22	-1.20
19,987.00	87.62	357.65	12,565.22	7,254.96	1,519.37	7,398.95	3.61	-3.50	-0.90
20,081.00	88.66	358.05	12,568.28	7,348.84	1,515.84	7,491.31	1.19	1.11	0.43
20,175.00	92.13	0.14	12,567.63	7,442.81	1,514.36	7,584.06	4.31	3.69	2.22
20,270.00	92.46	1.34	12,563.82	7,537.72	1,515.58	7,678.14	1.31	0.35	1.26
20,364.00	91.80	1.21	12,560.33	7,631.64	1,517.67	7,771.35	0.72	-0.70	-0.14
20,459.00	93.28	1.27	12,556.12	7,726.52	1,519.73	7,865.52	1.56	1.56	0.06
20,554.00	93.67	0.93	12,550.36	7,821.32	1,521.55	7,959.58	0.54	0.41	-0.36
20,648.00	92.64	0.58	12,545.19	7,915.17	1,522.78	8,052.61	1.16	-1.10	-0.37
20,743.00	92.70	359.74	12,540.76	8,010.07	1,523.05	8,146.53	0.89	0.06	-0.88
20,837.00	90.84	1.25	12,537.86	8,104.01	1,523.86	8,239.59	2.55	-1.98	1.61
20,931.00	93.34	359.69	12,534.43	8,197.94	1,524.63	8,332.62	3.13	2.66	-1.66



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,025.00	90.84	0.00	12,531.00	8,291.87	1,524.38	8,425.51	2.68	-2.66	0.33
21,120.00	89.43	0.19	12,530.78	8,386.86	1,524.54	8,519.51	1.50	-1.48	0.20
21,214.00	89.83	0.43	12,531.39	8,480.86	1,525.05	8,612.58	0.50	0.43	0.26
21,309.00	89.43	359.84	12,532.00	8,575.86	1,525.27	8,706.59	0.75	-0.42	-0.62
21,404.00	90.00	359.15	12,532.47	8,670.85	1,524.43	8,800.45	0.94	0.60	-0.73
21,498.00	90.74	359.71	12,531.86	8,764.84	1,523.50	8,893.30	0.99	0.79	0.60
21,593.00	90.10	359.91	12,531.17	8,859.84	1,523.18	8,987.24	0.71	-0.67	0.21
21,687.00	90.20	359.63	12,530.92	8,953.84	1,522.80	9,080.18	0.32	0.11	-0.30
21,779.00	90.20	359.40	12,530.60	9,045.84	1,522.03	9,171.08	0.25	0.00	-0.25
21,869.00	91.64	359.84	12,529.16	9,135.82	1,521.43	9,260.01	1.67	1.60	0.49
22,018.00	91.14	1.59	12,525.54	9,284.76	1,523.29	9,407.63	1.22	-0.34	1.17
22,112.00	90.60	1.31	12,524.11	9,378.72	1,525.67	9,500.93	0.65	-0.57	-0.30
22,206.00	89.29	1.62	12,524.20	9,472.68	1,528.07	9,594.25	1.43	-1.39	0.33
22,300.00	89.09	1.50	12,525.53	9,566.64	1,530.63	9,687.57	0.25	-0.21	-0.13
22,395.00	89.56	1.23	12,526.65	9,661.60	1,532.89	9,781.85	0.57	0.49	-0.28
22,489.00	89.30	1.04	12,527.59	9,755.58	1,534.75	9,875.10	0.34	-0.28	-0.20
22,584.00	88.99	1.25	12,529.01	9,850.55	1,536.65	9,969.33	0.39	-0.33	0.22
22,678.00	89.53	1.04	12,530.22	9,944.52	1,538.53	10,062.57	0.62	0.57	-0.22
22,773.00	88.79	0.30	12,531.61	10,039.51	1,539.64	10,156.70	1.10	-0.78	-0.78
22,867.00	89.06	0.30	12,533.38	10,133.49	1,540.13	10,249.75	0.29	0.29	0.00
22,953.30	89.06	359.82	12,534.79	10,219.78	1,540.22	10,335.13	0.56	0.00	-0.56
100 FNL 22953.3 MD 12534.79 TVD									
22,960.00	89.06	359.78	12,534.90	10,226.48	1,540.20	10,341.76	0.56	0.00	-0.56
Last Svy 22960 MD									
23,020.00	89.06	359.78	12,535.89	10,286.47	1,539.97	10,401.07	0.00	0.00	0.00
Actual BH: 35.8 FNL 2604 FEL - 23020 MD 12535.89 TVD - X- 785717.10 Y-446402.14 - 32.224765 -103.543059									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,480.42	12,305.44	-134.12	1,516.90	100 FSL 12480.42 MD 12305.44 TVD
22,953.30	12,534.79	10,219.78	1,540.22	100 FNL 22953.3 MD 12534.79 TVD
22,960.00	12,534.90	10,226.48	1,540.20	Last Svy 22960 MD
23,020.00	12,535.89	10,286.47	1,539.97	Actual BH: 35.8 FNL 2604 FEL
23,020.00	12,535.89	10,286.47	1,539.97	23020 MD 12535.89 TVD
23,020.00	12,535.89	10,286.47	1,539.97	X- 785717.10 Y-446402.14
23,020.00	12,535.89	10,286.47	1,539.97	32.224765 -103.543059

Checked By: _____ Approved By: _____ Date: _____



Devon Energy

Lea County, NM (NAD83 NME)

Blue Krait 23-14 Fed

#32H

OH

Design: As Drilled

Survey Report - Geographic

29 April, 2020



www.scientificdrilling.com





Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Blue Krait 23-14 Fed		
Site Position:		Northing:	436,115.47 usft
From:	Map	Easting:	784,117.18 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.196523
		Longitude:	-103.548475
		Grid Convergence:	0.42 °

Well	#32H		
Well Position	+N/-S	0.00 usft	Northing: 436,115.91 usft
	+E/-W	0.00 usft	Easting: 784,177.17 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.196523
		Longitude:	-103.548281
		Ground Level:	3,556.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM_FILE	1/1/2020	6.58
			Dip Angle (°) 59.83
			Field Strength (nT) 47,816.70000000

Design	As Drilled		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 8.38

Survey Program	Date 4/29/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
145.00	11,974.00	SDI Survey #1 (OH)	MWD+HDGM
12,046.00	23,020.00	Survey #2 (OH)	MWD+HDGM
			Description
			OWSG MWD + HDGM
			OWSG MWD + HDGM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	436,115.91	784,177.17	32.196523	-103.548281
145.00	0.51	195.63	145.00	-0.62	-0.17	436,115.29	784,176.99	32.196521	-103.548282
175.00	0.55	195.21	175.00	-0.89	-0.25	436,115.02	784,176.92	32.196521	-103.548282
266.00	0.57	221.31	265.99	-1.65	-0.66	436,114.26	784,176.51	32.196519	-103.548283
358.00	0.43	186.13	357.99	-2.34	-1.00	436,113.57	784,176.17	32.196517	-103.548285
450.00	0.62	225.66	449.99	-3.03	-1.39	436,112.88	784,175.77	32.196515	-103.548286
542.00	0.54	209.14	541.98	-3.76	-1.96	436,112.15	784,175.21	32.196513	-103.548288
634.00	0.58	206.90	633.98	-4.55	-2.38	436,111.36	784,174.79	32.196511	-103.548289
724.00	0.40	177.93	723.97	-5.27	-2.58	436,110.64	784,174.59	32.196509	-103.548290
815.00	0.71	174.16	814.97	-6.15	-2.51	436,109.76	784,174.66	32.196506	-103.548289
906.00	0.53	150.70	905.96	-7.08	-2.24	436,108.83	784,174.92	32.196504	-103.548289



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
997.00	0.89	178.85	996.96	-8.15	-2.02	436,107.76	784,175.14	32.196501	-103.548288
1,087.00	0.61	156.09	1,086.95	-9.29	-1.82	436,106.62	784,175.35	32.196498	-103.548287
1,180.00	0.85	154.26	1,179.94	-10.36	-1.32	436,105.55	784,175.85	32.196495	-103.548286
1,233.00	0.74	163.33	1,232.94	-11.04	-1.05	436,104.87	784,176.12	32.196493	-103.548285
1,354.00	0.70	152.74	1,353.93	-12.45	-0.48	436,103.46	784,176.68	32.196489	-103.548283
1,417.00	1.09	113.69	1,416.92	-13.03	0.24	436,102.88	784,177.41	32.196487	-103.548281
1,511.00	1.91	91.71	1,510.89	-13.44	2.63	436,102.47	784,179.79	32.196486	-103.548273
1,606.00	2.36	91.20	1,605.82	-13.52	6.16	436,102.39	784,183.33	32.196486	-103.548262
1,700.00	4.07	106.51	1,699.67	-14.51	11.30	436,101.40	784,188.46	32.196483	-103.548245
1,794.00	5.77	108.32	1,793.32	-16.95	18.98	436,098.96	784,196.15	32.196476	-103.548220
1,889.00	5.91	105.63	1,887.83	-19.77	28.23	436,096.14	784,205.39	32.196468	-103.548190
1,982.00	6.92	108.73	1,980.25	-22.85	38.14	436,093.06	784,215.31	32.196460	-103.548158
2,077.00	8.31	105.28	2,074.41	-26.50	50.19	436,089.41	784,227.35	32.196449	-103.548120
2,171.00	9.71	100.46	2,167.25	-29.73	64.53	436,086.18	784,241.70	32.196440	-103.548073
2,266.00	11.13	97.82	2,260.68	-32.43	81.50	436,083.48	784,258.66	32.196432	-103.548019
2,361.00	13.07	97.20	2,353.56	-35.03	101.24	436,080.88	784,278.41	32.196425	-103.547955
2,454.00	14.66	94.41	2,443.85	-37.25	123.41	436,078.66	784,300.57	32.196418	-103.547883
2,548.00	14.85	95.29	2,534.75	-39.28	147.26	436,076.64	784,324.43	32.196412	-103.547806
2,643.00	14.76	93.27	2,626.60	-41.09	171.47	436,074.82	784,348.63	32.196407	-103.547728
2,737.00	14.27	92.89	2,717.60	-42.36	194.99	436,073.56	784,372.15	32.196403	-103.547652
2,832.00	14.00	90.75	2,809.72	-43.10	218.18	436,072.81	784,395.34	32.196400	-103.547577
2,927.00	13.58	90.70	2,901.98	-43.38	240.82	436,072.53	784,417.98	32.196399	-103.547504
3,021.00	13.15	91.03	2,993.44	-43.71	262.54	436,072.20	784,439.71	32.196398	-103.547434
3,115.00	13.23	89.40	3,084.96	-43.79	283.99	436,072.12	784,461.15	32.196397	-103.547364
3,209.00	13.02	86.58	3,176.50	-43.05	305.32	436,072.87	784,482.48	32.196399	-103.547295
3,303.00	12.61	92.61	3,268.16	-42.88	326.14	436,073.03	784,503.30	32.196399	-103.547228
3,398.00	12.74	101.40	3,360.86	-45.42	346.77	436,070.49	784,523.93	32.196391	-103.547161
3,493.00	12.97	101.24	3,453.48	-49.57	367.49	436,066.34	784,544.65	32.196379	-103.547095
3,587.00	12.76	102.03	3,545.12	-53.79	387.99	436,062.12	784,565.15	32.196367	-103.547028
3,682.00	12.38	99.92	3,637.84	-57.73	408.28	436,058.18	784,585.44	32.196356	-103.546963
3,777.00	11.62	98.31	3,730.76	-60.87	427.78	436,055.04	784,604.94	32.196347	-103.546900
3,872.00	11.85	97.92	3,823.78	-63.60	446.91	436,052.31	784,624.07	32.196339	-103.546838
3,966.00	11.99	98.83	3,915.75	-66.43	466.12	436,049.49	784,643.27	32.196331	-103.546776
4,061.00	13.06	99.42	4,008.49	-69.70	486.46	436,046.21	784,663.61	32.196322	-103.546710
4,155.00	12.61	98.16	4,100.14	-72.89	507.09	436,043.02	784,684.25	32.196313	-103.546644
4,250.00	11.71	97.42	4,193.01	-75.61	526.92	436,040.30	784,704.07	32.196305	-103.546580
4,345.00	12.54	98.31	4,285.89	-78.34	546.68	436,037.57	784,723.84	32.196297	-103.546516
4,439.00	13.51	95.89	4,377.47	-80.95	567.70	436,034.97	784,744.86	32.196289	-103.546448
4,533.00	13.29	98.67	4,468.91	-83.70	589.31	436,032.21	784,766.46	32.196281	-103.546378
4,628.00	14.04	101.55	4,561.22	-87.65	611.39	436,028.26	784,788.54	32.196270	-103.546307
4,723.00	12.49	102.43	4,653.69	-92.17	632.71	436,023.74	784,809.87	32.196257	-103.546238
4,817.00	13.35	102.26	4,745.30	-96.67	653.25	436,019.25	784,830.40	32.196244	-103.546172
4,912.00	14.93	104.40	4,837.42	-102.04	675.82	436,013.87	784,852.97	32.196229	-103.546099
5,007.00	16.22	105.50	4,928.93	-108.63	700.46	436,007.28	784,877.61	32.196210	-103.546020
5,101.00	14.84	106.01	5,019.50	-115.46	724.68	436,000.46	784,901.83	32.196191	-103.545941
5,196.00	13.12	103.05	5,111.68	-121.25	746.88	435,994.67	784,924.03	32.196175	-103.545870
5,291.00	10.88	103.90	5,204.60	-125.84	766.09	435,990.08	784,943.24	32.196162	-103.545808
5,386.00	10.68	99.34	5,297.93	-129.42	783.48	435,986.49	784,960.63	32.196152	-103.545752
5,481.00	11.98	98.56	5,391.07	-132.32	801.92	435,983.60	784,979.07	32.196143	-103.545692
5,574.00	13.63	94.56	5,481.76	-134.62	822.39	435,981.29	784,999.53	32.196137	-103.545626
5,668.00	16.42	94.14	5,572.54	-136.46	846.68	435,979.45	785,023.83	32.196131	-103.545548
5,762.00	18.21	92.19	5,662.27	-137.98	874.61	435,977.93	785,051.76	32.196126	-103.545457
5,857.00	17.50	91.80	5,752.70	-139.00	903.72	435,976.91	785,080.87	32.196123	-103.545363
5,952.00	17.38	90.62	5,843.33	-139.60	932.19	435,976.31	785,109.33	32.196121	-103.545271
6,046.00	17.38	90.72	5,933.04	-139.93	960.26	435,975.98	785,137.41	32.196119	-103.545181



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,141.00	16.99	90.64	6,023.80	-140.26	988.33	435,975.65	785,165.47	32.196118	-103.545090
6,235.00	16.17	90.06	6,113.89	-140.43	1,015.15	435,975.48	785,192.30	32.196117	-103.545003
6,329.00	15.03	89.13	6,204.43	-140.26	1,040.43	435,975.65	785,217.57	32.196117	-103.544921
6,424.00	14.37	87.47	6,296.32	-139.55	1,064.52	435,976.36	785,241.67	32.196118	-103.544844
6,518.00	13.97	86.25	6,387.46	-138.30	1,087.50	435,977.62	785,264.64	32.196121	-103.544769
6,612.00	14.17	84.72	6,478.64	-136.49	1,110.28	435,979.42	785,287.42	32.196126	-103.544696
6,707.00	13.73	84.98	6,570.83	-134.44	1,133.09	435,981.48	785,310.23	32.196131	-103.544622
6,801.00	12.99	88.24	6,662.29	-133.14	1,154.76	435,982.78	785,331.90	32.196134	-103.544552
6,896.00	13.50	88.98	6,754.76	-132.61	1,176.52	435,983.30	785,353.66	32.196135	-103.544481
6,991.00	14.03	94.91	6,847.04	-133.40	1,199.08	435,982.51	785,376.22	32.196132	-103.544408
7,086.00	13.58	92.88	6,939.30	-134.95	1,221.69	435,980.97	785,398.83	32.196128	-103.544335
7,180.00	12.71	95.92	7,030.83	-136.57	1,243.00	435,979.35	785,420.14	32.196123	-103.544267
7,275.00	11.72	100.21	7,123.68	-139.36	1,262.89	435,976.56	785,440.03	32.196115	-103.544202
7,369.00	11.32	101.37	7,215.79	-142.87	1,281.33	435,973.05	785,458.47	32.196105	-103.544143
7,464.00	10.36	101.59	7,309.09	-146.42	1,298.84	435,969.49	785,475.98	32.196094	-103.544086
7,559.00	10.11	102.03	7,402.58	-149.87	1,315.37	435,966.04	785,492.50	32.196085	-103.544033
7,654.00	9.64	102.47	7,496.17	-153.33	1,331.29	435,962.58	785,508.42	32.196075	-103.543982
7,749.00	9.24	100.88	7,589.89	-156.49	1,346.54	435,959.43	785,523.68	32.196066	-103.543932
7,843.00	8.45	101.35	7,682.77	-159.27	1,360.73	435,956.64	785,537.86	32.196058	-103.543887
7,938.00	7.79	101.29	7,776.82	-161.91	1,373.88	435,954.01	785,551.02	32.196050	-103.543844
8,032.00	6.87	100.02	7,870.05	-164.13	1,385.67	435,951.78	785,562.80	32.196044	-103.543806
8,127.00	6.28	100.61	7,964.42	-166.08	1,396.37	435,949.84	785,573.50	32.196039	-103.543771
8,221.00	6.16	97.32	8,057.87	-167.67	1,406.43	435,948.25	785,583.56	32.196034	-103.543739
8,315.00	5.50	96.94	8,151.38	-168.85	1,415.90	435,947.06	785,593.03	32.196030	-103.543708
8,409.00	5.16	98.93	8,244.97	-170.05	1,424.55	435,945.86	785,601.68	32.196027	-103.543680
8,503.00	4.69	99.16	8,338.63	-171.32	1,432.52	435,944.59	785,609.65	32.196023	-103.543655
8,598.00	4.16	100.02	8,433.34	-172.54	1,439.74	435,943.38	785,616.88	32.196020	-103.543631
8,693.00	3.90	100.26	8,528.11	-173.71	1,446.32	435,942.20	785,623.45	32.196017	-103.543610
8,788.00	3.64	96.56	8,622.90	-174.63	1,452.49	435,941.28	785,629.62	32.196014	-103.543590
8,881.00	3.17	97.26	8,715.74	-175.30	1,457.97	435,940.62	785,635.11	32.196012	-103.543573
8,976.00	2.97	96.73	8,810.60	-175.92	1,463.02	435,940.00	785,640.16	32.196010	-103.543556
9,070.00	2.74	97.30	8,904.49	-176.49	1,467.67	435,939.43	785,644.80	32.196008	-103.543541
9,164.00	2.43	95.91	8,998.39	-176.98	1,471.88	435,938.94	785,649.02	32.196007	-103.543528
9,259.00	1.80	91.66	9,093.32	-177.23	1,475.38	435,938.69	785,652.51	32.196006	-103.543516
9,353.00	1.29	88.48	9,187.29	-177.24	1,477.91	435,938.67	785,655.04	32.196006	-103.543508
9,448.00	1.27	81.27	9,282.27	-177.05	1,480.02	435,938.86	785,657.15	32.196007	-103.543501
9,542.00	0.54	90.74	9,376.25	-176.90	1,481.49	435,939.01	785,658.63	32.196007	-103.543497
9,637.00	0.79	76.87	9,471.25	-176.76	1,482.58	435,939.15	785,659.71	32.196007	-103.543493
9,732.00	0.95	44.14	9,566.24	-176.05	1,483.76	435,939.87	785,660.90	32.196009	-103.543489
9,827.00	0.76	14.04	9,661.23	-174.87	1,484.47	435,941.05	785,661.60	32.196013	-103.543487
9,921.00	1.35	28.37	9,755.21	-173.29	1,485.14	435,942.62	785,662.28	32.196017	-103.543485
10,016.00	1.14	54.10	9,850.19	-171.75	1,486.44	435,944.16	785,663.57	32.196021	-103.543480
10,111.00	0.51	97.72	9,945.18	-171.25	1,487.62	435,944.66	785,664.76	32.196022	-103.543477
10,205.00	0.93	156.57	10,039.17	-172.01	1,488.34	435,943.90	785,665.48	32.196020	-103.543474
10,300.00	0.83	157.31	10,134.16	-173.35	1,488.91	435,942.56	785,666.05	32.196017	-103.543473
10,394.00	0.83	172.29	10,228.15	-174.65	1,489.27	435,941.26	785,666.40	32.196013	-103.543471
10,489.00	1.02	156.09	10,323.14	-176.11	1,489.70	435,939.80	785,666.84	32.196009	-103.543470
10,584.00	0.84	162.73	10,418.13	-177.55	1,490.25	435,938.37	785,667.39	32.196005	-103.543468
10,678.00	0.89	165.73	10,512.12	-178.91	1,490.64	435,937.00	785,667.77	32.196001	-103.543467
10,772.00	0.74	176.48	10,606.11	-180.23	1,490.85	435,935.69	785,667.99	32.195998	-103.543466
10,867.00	0.66	117.04	10,701.10	-181.09	1,491.38	435,934.83	785,668.51	32.195995	-103.543465
10,961.00	0.95	126.75	10,795.09	-181.80	1,492.49	435,934.11	785,669.62	32.195993	-103.543461
11,056.00	0.67	112.75	10,890.08	-182.49	1,493.63	435,933.43	785,670.76	32.195991	-103.543457
11,151.00	0.83	121.66	10,985.07	-183.06	1,494.73	435,932.85	785,671.86	32.195990	-103.543454
11,245.00	1.16	133.34	11,079.06	-184.07	1,496.00	435,931.84	785,673.13	32.195987	-103.543450



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,339.00	1.13	129.87	11,173.04	-185.32	1,497.40	435,930.59	785,674.54	32.195984	-103.543445
11,434.00	1.00	111.91	11,268.03	-186.23	1,498.89	435,929.68	785,676.02	32.195981	-103.543441
11,528.00	1.12	116.57	11,362.01	-186.95	1,500.47	435,928.97	785,677.61	32.195979	-103.543435
11,623.00	0.67	91.86	11,457.00	-187.38	1,501.86	435,928.53	785,678.99	32.195978	-103.543431
11,717.00	1.05	101.63	11,550.99	-187.57	1,503.25	435,928.34	785,680.38	32.195977	-103.543426
11,811.00	0.99	90.18	11,644.97	-187.75	1,504.91	435,928.17	785,682.04	32.195977	-103.543421
11,905.00	1.04	93.19	11,738.96	-187.80	1,506.57	435,928.12	785,683.70	32.195977	-103.543416
11,974.00	0.72	109.41	11,807.95	-187.98	1,507.61	435,927.94	785,684.74	32.195976	-103.543412
12,046.00	1.05	82.80	11,879.94	-188.04	1,508.69	435,927.87	785,685.82	32.195976	-103.543409
12,140.00	0.77	114.06	11,973.93	-188.19	1,510.12	435,927.72	785,687.25	32.195975	-103.543404
12,235.00	0.88	126.20	12,068.92	-188.88	1,511.29	435,927.03	785,688.42	32.195973	-103.543401
12,329.00	9.34	7.48	12,162.52	-181.73	1,512.87	435,934.18	785,690.00	32.195993	-103.543395
12,424.00	20.29	4.08	12,254.22	-157.58	1,515.05	435,958.33	785,692.18	32.196059	-103.543388
12,480.42	29.08	4.80	12,305.44	-134.12	1,516.90	435,981.79	785,694.03	32.196124	-103.543381
100 FSL 12480.42 MD 12305.44 TVD									
12,518.00	34.93	5.09	12,337.29	-114.29	1,518.62	436,001.63	785,695.75	32.196178	-103.543375
12,611.00	42.82	8.37	12,409.65	-56.40	1,525.59	436,059.51	785,702.72	32.196337	-103.543351
12,706.00	50.25	8.42	12,474.95	11.77	1,535.65	436,127.67	785,712.79	32.196525	-103.543317
12,801.00	57.33	4.99	12,531.05	87.84	1,544.49	436,203.74	785,721.62	32.196733	-103.543287
12,895.00	68.86	4.32	12,573.51	171.25	1,551.26	436,287.15	785,728.39	32.196963	-103.543263
12,990.00	77.97	4.22	12,600.60	261.95	1,558.03	436,377.85	785,735.16	32.197212	-103.543239
13,084.00	88.12	3.73	12,611.97	354.91	1,564.48	436,470.81	785,741.61	32.197467	-103.543216
13,178.00	91.28	1.95	12,612.46	448.78	1,569.14	436,564.67	785,746.27	32.197725	-103.543198
13,272.00	91.65	2.49	12,610.06	542.67	1,572.78	436,658.57	785,749.91	32.197983	-103.543184
13,367.00	90.07	2.99	12,608.63	637.55	1,577.32	436,753.45	785,754.45	32.198244	-103.543167
13,461.00	89.16	3.08	12,609.26	731.42	1,582.30	436,847.31	785,759.43	32.198502	-103.543149
13,556.00	89.33	1.56	12,610.51	826.33	1,586.14	436,942.22	785,763.27	32.198762	-103.543134
13,651.00	89.30	359.45	12,611.65	921.31	1,586.98	437,037.20	785,764.11	32.199023	-103.543130
13,745.00	88.86	359.35	12,613.16	1,015.29	1,586.00	437,131.18	785,763.13	32.199282	-103.543130
13,839.00	90.24	357.25	12,613.90	1,109.24	1,583.21	437,225.13	785,760.34	32.199540	-103.543137
13,934.00	91.31	359.01	12,612.61	1,204.18	1,580.11	437,320.06	785,757.24	32.199801	-103.543145
14,029.00	90.74	358.86	12,610.91	1,299.15	1,578.34	437,415.02	785,755.47	32.200062	-103.543148
14,124.00	90.50	358.20	12,609.89	1,394.11	1,575.91	437,509.99	785,753.04	32.200323	-103.543154
14,218.00	94.00	359.51	12,606.20	1,488.00	1,574.03	437,603.87	785,751.16	32.200581	-103.543158
14,313.00	90.00	0.71	12,602.88	1,582.92	1,574.21	437,698.79	785,751.34	32.200842	-103.543155
14,407.00	89.19	0.78	12,603.54	1,676.91	1,575.43	437,792.78	785,752.56	32.201101	-103.543149
14,502.00	89.70	1.60	12,604.46	1,771.88	1,577.41	437,887.75	785,754.54	32.201362	-103.543140
14,597.00	91.21	0.22	12,603.71	1,866.86	1,578.91	437,982.73	785,756.05	32.201623	-103.543133
14,691.00	92.18	1.08	12,600.93	1,960.81	1,579.98	438,076.68	785,757.11	32.201881	-103.543127
14,786.00	89.87	359.48	12,599.23	2,055.79	1,580.44	438,171.65	785,757.57	32.202142	-103.543124
14,880.00	90.74	358.95	12,598.73	2,149.78	1,579.16	438,265.64	785,756.29	32.202400	-103.543126
14,975.00	90.27	358.37	12,597.89	2,244.75	1,576.93	438,360.60	785,754.07	32.202661	-103.543131
15,069.00	90.27	358.33	12,597.45	2,338.71	1,574.23	438,454.56	785,751.36	32.202920	-103.543137
15,164.00	89.97	357.35	12,597.25	2,433.64	1,570.65	438,549.49	785,747.78	32.203181	-103.543146
15,258.00	89.43	356.86	12,597.74	2,527.52	1,565.90	438,643.37	785,743.03	32.203439	-103.543159
15,353.00	91.10	358.92	12,597.30	2,622.44	1,562.40	438,738.29	785,739.53	32.203700	-103.543169
15,447.00	91.42	357.37	12,595.24	2,716.37	1,559.36	438,832.21	785,736.49	32.203958	-103.543176
15,542.00	90.50	358.98	12,593.64	2,811.30	1,556.34	438,927.15	785,733.47	32.204219	-103.543184
15,636.00	88.33	359.01	12,594.60	2,905.28	1,554.69	439,021.12	785,731.82	32.204477	-103.543187
15,731.00	90.50	359.53	12,595.57	3,000.26	1,553.48	439,116.10	785,730.61	32.204738	-103.543188
15,825.00	90.84	358.60	12,594.48	3,094.24	1,551.94	439,210.08	785,729.07	32.204997	-103.543191
15,920.00	90.94	358.89	12,593.00	3,189.20	1,549.86	439,305.04	785,726.99	32.205258	-103.543196
16,014.00	91.92	359.37	12,590.65	3,283.16	1,548.44	439,399.00	785,725.57	32.205516	-103.543198
16,108.00	91.75	359.44	12,587.64	3,377.11	1,547.46	439,492.94	785,724.59	32.205774	-103.543199
16,202.00	92.28	0.60	12,584.34	3,471.05	1,547.49	439,586.88	785,724.62	32.206032	-103.543197



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,297.00	90.54	1.13	12,582.00	3,566.01	1,548.93	439,681.83	785,726.06	32.206293	-103.543190
16,392.00	90.44	0.19	12,581.19	3,660.99	1,550.02	439,776.82	785,727.15	32.206554	-103.543184
16,486.00	90.30	359.68	12,580.58	3,754.99	1,549.91	439,870.81	785,727.05	32.206813	-103.543182
16,581.00	89.70	359.50	12,580.58	3,849.99	1,549.23	439,965.81	785,726.37	32.207074	-103.543182
16,676.00	89.57	359.64	12,581.19	3,944.98	1,548.52	440,060.80	785,725.65	32.207335	-103.543182
16,770.00	89.33	359.40	12,582.09	4,038.98	1,547.73	440,154.79	785,724.87	32.207593	-103.543182
16,864.00	89.70	359.42	12,582.88	4,132.97	1,546.77	440,248.78	785,723.90	32.207852	-103.543183
16,959.00	89.83	0.79	12,583.27	4,227.96	1,546.94	440,343.78	785,724.07	32.208113	-103.543180
17,053.00	89.67	0.09	12,583.68	4,321.96	1,547.66	440,437.77	785,724.79	32.208371	-103.543176
17,148.00	89.80	0.02	12,584.12	4,416.96	1,547.75	440,532.77	785,724.89	32.208632	-103.543173
17,242.00	89.60	359.52	12,584.62	4,510.96	1,547.38	440,626.76	785,724.51	32.208891	-103.543172
17,337.00	89.56	359.24	12,585.31	4,605.95	1,546.35	440,721.75	785,723.48	32.209152	-103.543173
17,432.00	90.27	357.34	12,585.45	4,700.90	1,543.51	440,816.70	785,720.65	32.209413	-103.543180
17,527.00	90.30	358.93	12,584.98	4,795.85	1,540.42	440,911.64	785,717.55	32.209674	-103.543188
17,621.00	89.93	357.65	12,584.79	4,889.80	1,537.62	441,005.60	785,714.75	32.209932	-103.543195
17,716.00	91.47	359.71	12,583.63	4,984.76	1,535.43	441,100.56	785,712.56	32.210193	-103.543200
17,811.00	90.77	359.55	12,581.77	5,079.74	1,534.82	441,195.53	785,711.95	32.210454	-103.543199
17,906.00	90.94	358.28	12,580.36	5,174.71	1,533.02	441,290.50	785,710.15	32.210715	-103.543203
18,000.00	90.97	0.02	12,578.79	5,268.69	1,531.62	441,384.47	785,708.75	32.210974	-103.543205
18,095.00	91.71	0.26	12,576.57	5,363.66	1,531.85	441,479.44	785,708.99	32.211235	-103.543202
18,190.00	90.24	359.28	12,574.95	5,458.64	1,531.47	441,574.42	785,708.60	32.211496	-103.543201
18,285.00	89.33	358.33	12,575.31	5,553.62	1,529.49	441,669.40	785,706.62	32.211757	-103.543205
18,379.00	89.63	1.62	12,576.16	5,647.60	1,529.45	441,763.38	785,706.58	32.212015	-103.543203
18,474.00	90.00	0.63	12,576.47	5,742.58	1,531.32	441,858.35	785,708.45	32.212276	-103.543195
18,569.00	89.70	1.28	12,576.72	5,837.57	1,532.90	441,953.34	785,710.03	32.212537	-103.543188
18,663.00	89.90	1.14	12,577.05	5,931.54	1,534.88	442,047.31	785,712.02	32.212796	-103.543179
18,758.00	90.97	1.50	12,576.32	6,026.51	1,537.07	442,142.28	785,714.20	32.213057	-103.543170
18,853.00	92.04	0.63	12,573.83	6,121.46	1,538.84	442,237.23	785,715.97	32.213317	-103.543162
18,947.00	91.45	359.98	12,570.97	6,215.42	1,539.34	442,331.18	785,716.47	32.213576	-103.543158
19,041.00	90.30	359.34	12,569.53	6,309.40	1,538.78	442,425.16	785,715.91	32.213834	-103.543157
19,136.00	91.04	0.14	12,568.42	6,404.39	1,538.35	442,520.15	785,715.48	32.214095	-103.543156
19,230.00	91.62	359.64	12,566.24	6,498.37	1,538.17	442,614.12	785,715.30	32.214353	-103.543155
19,325.00	91.75	358.61	12,563.44	6,593.31	1,536.72	442,709.07	785,713.85	32.214614	-103.543157
19,419.00	89.73	357.87	12,562.23	6,687.26	1,533.83	442,803.01	785,710.96	32.214873	-103.543164
19,514.00	89.13	358.55	12,563.18	6,782.20	1,530.86	442,897.96	785,708.00	32.215134	-103.543172
19,608.00	88.59	357.17	12,565.05	6,876.12	1,527.36	442,991.87	785,704.49	32.215392	-103.543181
19,703.00	90.17	359.61	12,566.07	6,971.06	1,524.69	443,086.81	785,701.82	32.215653	-103.543187
19,798.00	90.70	359.64	12,565.35	7,066.06	1,524.07	443,181.80	785,701.20	32.215914	-103.543187
19,893.00	90.91	358.50	12,564.02	7,161.04	1,522.52	443,276.78	785,699.66	32.216175	-103.543190
19,987.00	87.62	357.65	12,565.22	7,254.96	1,519.37	443,370.70	785,696.50	32.216433	-103.543198
20,081.00	88.66	358.05	12,568.28	7,348.84	1,515.84	443,464.58	785,692.97	32.216692	-103.543207
20,175.00	92.13	0.14	12,567.63	7,442.81	1,514.36	443,558.55	785,691.49	32.216950	-103.543209
20,270.00	92.46	1.34	12,563.82	7,537.72	1,515.58	443,653.46	785,692.72	32.217211	-103.543203
20,364.00	91.80	1.21	12,560.33	7,631.64	1,517.67	443,747.37	785,694.81	32.217469	-103.543194
20,459.00	93.28	1.27	12,556.12	7,726.52	1,519.73	443,842.25	785,696.86	32.217730	-103.543185
20,554.00	93.67	0.93	12,550.36	7,821.32	1,521.55	443,937.05	785,698.68	32.217990	-103.543177
20,648.00	92.64	0.58	12,545.19	7,915.17	1,522.78	444,030.90	785,699.92	32.218248	-103.543171
20,743.00	92.70	359.74	12,540.76	8,010.07	1,523.05	444,125.79	785,700.18	32.218509	-103.543168
20,837.00	90.84	1.25	12,537.86	8,104.01	1,523.86	444,219.73	785,700.99	32.218767	-103.543163
20,931.00	93.34	359.69	12,534.43	8,197.94	1,524.63	444,313.66	785,701.77	32.219025	-103.543158
21,025.00	90.84	0.00	12,531.00	8,291.87	1,524.38	444,407.58	785,701.51	32.219283	-103.543157
21,120.00	89.43	0.19	12,530.78	8,386.86	1,524.54	444,502.58	785,701.67	32.219544	-103.543154
21,214.00	89.83	0.43	12,531.39	8,480.86	1,525.05	444,596.57	785,702.18	32.219803	-103.543150
21,309.00	89.43	359.84	12,532.00	8,575.86	1,525.27	444,691.57	785,702.40	32.220064	-103.543147
21,404.00	90.00	359.15	12,532.47	8,670.85	1,524.43	444,786.56	785,701.56	32.220325	-103.543148



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well #32H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Site:	Blue Krait 23-14 Fed	MD Reference:	KB = 25' @ 3581.00usft (Patterson 595)
Well:	#32H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,498.00	90.74	359.71	12,531.86	8,764.84	1,523.50	444,880.55	785,700.63	32.220583	-103.543148
21,593.00	90.10	359.91	12,531.17	8,859.84	1,523.18	444,975.54	785,700.31	32.220844	-103.543147
21,687.00	90.20	359.63	12,530.92	8,953.84	1,522.80	445,069.54	785,699.94	32.221103	-103.543146
21,779.00	90.20	359.40	12,530.60	9,045.84	1,522.03	445,161.53	785,699.16	32.221356	-103.543146
21,869.00	91.64	359.84	12,529.16	9,135.82	1,521.43	445,251.52	785,698.56	32.221603	-103.543146
22,018.00	91.14	1.59	12,525.54	9,284.76	1,523.29	445,400.45	785,700.42	32.222012	-103.543137
22,112.00	90.60	1.31	12,524.11	9,378.72	1,525.67	445,494.41	785,702.80	32.222271	-103.543127
22,206.00	89.29	1.62	12,524.20	9,472.68	1,528.07	445,588.37	785,705.20	32.222529	-103.543117
22,300.00	89.09	1.50	12,525.53	9,566.64	1,530.63	445,682.32	785,707.76	32.222787	-103.543106
22,395.00	89.56	1.23	12,526.65	9,661.60	1,532.89	445,777.29	785,710.02	32.223048	-103.543097
22,489.00	89.30	1.04	12,527.59	9,755.58	1,534.75	445,871.26	785,711.88	32.223306	-103.543088
22,584.00	88.99	1.25	12,529.01	9,850.55	1,536.65	445,966.23	785,713.78	32.223567	-103.543080
22,678.00	89.53	1.04	12,530.22	9,944.52	1,538.53	446,060.20	785,715.66	32.223825	-103.543072
22,773.00	88.79	0.30	12,531.61	10,039.51	1,539.64	446,155.18	785,716.77	32.224087	-103.543066
22,867.00	89.06	0.30	12,533.38	10,133.49	1,540.13	446,249.16	785,717.26	32.224345	-103.543062
22,953.30	89.06	359.82	12,534.79	10,219.78	1,540.22	446,335.45	785,717.35	32.224582	-103.543060
100 FNL 22953.3 MD 12534.79 TVD									
22,960.00	89.06	359.78	12,534.90	10,226.48	1,540.20	446,342.15	785,717.33	32.224600	-103.543060
Last Svy 22960 MD									
23,020.00	89.06	359.78	12,535.89	10,286.47	1,539.97	446,402.14	785,717.10	32.224765	-103.543059
Actual BH: 35.8 FNL 2604 FEL - 23020 MD 12535.89 TVD - X- 785717.10 Y-446402.14 - 32.224765 -103.543059									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
12,480.42	12,305.44	-134.12	1,516.90	100 FSL 12480.42 MD 12305.44 TVD	
22,953.30	12,534.79	10,219.78	1,540.22	100 FNL 22953.3 MD 12534.79 TVD	
22,960.00	12,534.90	10,226.48	1,540.20	Last Svy 22960 MD	
23,020.00	12,535.89	10,286.47	1,539.97	Actual BH: 35.8 FNL 2604 FEL	
23,020.00	12,535.89	10,286.47	1,539.97	23020 MD 12535.89 TVD	
23,020.00	12,535.89	10,286.47	1,539.97	X- 785717.10 Y-446402.14	
23,020.00	12,535.89	10,286.47	1,539.97	32.224765 -103.543059	

Checked By: _____ Approved By: _____ Date: _____

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

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

Form C-103
 Revised August 1, 2011

WELL API NO.	30-025-46833
5. Indicate Type of Lease STATE ☐ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	Blue Krait 23-14 Fed
8. Well Number	32H
9. OGRID Number	6137
10. Pool name or Wildcat	WC-025 G-09 S243310P; UPPER WOLFCAMP

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 ☐
2. Name of Operator Devon Energy Production Company, L.P.
3. Address of Operator 333 West Sheridan, Oklahoma City, OK 73102
4. Well Location Unit Letter <u>M</u> : <u>245</u> feet from the <u>South</u> line and <u>1040</u> feet from the <u>West</u> line Section <u>23</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>Lea</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 3555.8

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 ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

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

OTHER: Completion ☒

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.

8/27/20 - 11/4/20: MIRU WL & PT. TIH & ran CBL, found TOC @ 8035'. PT csg for 30min, OK. TIH w/pump through frac plug and guns. Perf Wolfcamp, 12,990'-22,900'. Frac totals 24,317,902# prop, 500 bbl acid. ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 22,957'. CHC, FWB, ND BOP. RIH w/ 372 jts 2-7/8" L-80 tbg, set @ 12,464'. TOP.

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

SIGNATURE _____ TITLE Regulatory Analyst DATE 7/9/2021

Type or print name Rebecca Deal E-mail address: Rebecca.Deal@dmn.com PHONE: 405-228-8429
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised August 1, 2011	
		1. WELL API NO. 30-025-46833		2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN	
		3. State Oil & Gas Lease No.			
WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)				5. Lease Name or Unit Agreement Name Blue Krait 23-14 Fed 6. Well Number: 32H	
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER					
8. Name of Operator Devon Energy Production Company, L.P.				9. OGRID 6137	
10. Address of Operator 333 West Sheridan Avenue, Oklahoma City, OK 73102				11. Pool name or Wildcat WC-025 G-09 S243310P; UPPER WOLFCA	
12. Location	Unit Ltr	Section	Township	Range	Feet from the
Surface:	M	23	24S	33E	245
BH:	B	14	24S	33E	34
13. Date Spudded 2/8/20	14. Date T.D. Reached 4/26/20	15. Date Rig Released 4/29/20		16. Date Completed (Ready to Produce) 11/4/20	
17. Elevations (DF and RKB, RT, GR, etc.) 3555.8 GL					
18. Total Measured Depth of Well 23020 MD, 12536 TVD		19. Plug Back Measured Depth 22957		20. Was Directional Survey Made? Yes	
				21. Type Electric and Other Logs Run CBL	
22. Producing Interval(s), of this completion - Top, Bottom, Name 12990-22900, UPPER WOLFCA					
23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13.375	54.5	1306	17.5	955 sx CIA; circ 355 sx	
8.625	32	12024	9.875	650 sx CIA; circ 0 sx	TOC @ 4240
5.5	20	23000	7.875	3215 sx CH; circ 343 sx	
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
					2.875 L-80
					12,464'
26. Perforation record (interval, size, and number) 12990 - 22900, total 984 holes			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 12990-22900		
			AMOUNT AND KIND MATERIAL USED Acidize and frac in 50 stages. See detailed summary attached.		
28. PRODUCTION					
Date First Production 11/4/20		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing		Well Status (Prod. or Shut-in) Producing	
Date of Test 11/29/20	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 2213	Gas - MCF 4088
				Water - Bbl. 3011	Gas - Oil Ratio 1847.26615
Flow Tubing Press. 1688 psi	Casing Pressure 5420 psi	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
					Oil Gravity - API - (Corr.)
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold					30. Test Witnessed By
31. List Attachments Directional Survey, Logs					
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.					
33. If an on-site burial was used at the well, report the exact location of the on-site burial:					
Latitude		Longitude		NAD 1927 1983	
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief					
Signature		Printed Name		Title	
		Rebecca Deal		Regulatory Analyst	
E-mail Address		Rebecca.Deal@dmn.com		Date 7/9/2021	

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

[illegible]

No. 1, from..... N/Ato..... N/A
 No. 2, from..... N/Ato..... N/A
 No. 3, from..... N/Ato..... N/A
 No. 4, from..... N/Ato..... N/A

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

District I
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 35793

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 35793
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 35793

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 35793
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	8/25/2021