

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 / 1/5/21
⁴ API Number 30-025-46921	⁵ Pool Name Jabalina; Wolfcamp, Southwest	⁶ Pool Code 96776
⁷ Property Code 327351	⁸ Property Name Cobber 21-33 Fed Com	⁹ Well Number 4H

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
C	21	26S	34E		234	North	1532	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
3	33	26S	34E		36	South	1719	West	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 1/5/21	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
014035	Marathon P.O. Box 552 Midland, TX 79702	Gas
371183	Energy Transfer 8111 Westchester Dr. Ste 600 Dallas, TX 75225	Gas

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBDT	²⁵ Perforations	²⁶ DHC, MC
4/30/20	1/5/21	25546	25452	13000 - 25349	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	840	650 sx CIC; Circ 337 sx		
9.875	8.625	11909	785 sx cmt; Circ 4 sx		
7.875 & 6.75	5.5 & 5	25454	1155 sx CIH; Circ 0 sx		
	Tubing:	0			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
1/27/21	1/27/21	1/27/21	24 hrs	psi	psi
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
	645 bbl	3540 bbl	1065 mcf		
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: <i>Rebecca Deal</i>			OIL CONSERVATION DIVISION		
Printed name: Rebecca Deal			Approved by:		
Title: Regulatory Analyst			Title:		
E-mail Address: Rebecca.Deal@dmn.com			Approval Date:		
Date: 2/4/2021		Phone: 405-228-8429			

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 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) 476-3460 Fax: (505) 476-3462

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 30-025-46921	Pool Code 96776	Pool Name JABALINA;WOLFCAMP, SOUTHWEST
Property Code 327351	Property Name COBBER 21-33 FED COM	Well Number 4H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3313.0'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	26-S	34-E		234	NORTH	1532	WEST	LEA

Bottom Hole Location If Different From Surface **SL**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 3	33	26-S	34-E		36	SOUTH	1719	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
792.01			

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

COBBER 21-33 FED COM 4H
ELEV: 3313.0'
LAT: 32.035538
LON: 103.478417
N: 377715.71
E: 806253.51

KICK OFF POINT
29' FNL 1634' FWL SEC. 21
LAT: 32.036101
LON: 103.478088
N: 377921.34
E: 806353.80

FIRST TAKE POINT
495' FNL 1656' FWL SEC. 21
LAT: 32.034823
LON: 103.478017
N: 377456.33
E: 806379.47

LAST TAKE POINT
232' FSL 1708' FWL SEC. 33
LAT: 32.000912
LON: 103.477821
N: 365120.42
E: 806537.90

BOTTOM OF HOLE
LAT: 32.000371
LON: 103.477787
N: 364924.00
E: 806549.80

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

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 2/1/2021
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.

7/2019
Date of Survey

Signature & Seal of Professional Surveyor



12/28/20
Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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:	Property Name:	Well Number

KZ 06/29/2018



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **04/30/20** thru **08/11/20** conduct or supervise the taking of a **MWD Survey** from a depth of **203'** to a depth of **25546'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Cobber 21-33 Fed Com 4H API No. 30-025-46921** in **Lea County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

*13901 Hwy 105 W., Conroe, Texas
77304
PH 936-539-9602*



Devon Energy

Lea Co., NM (Nad83 - East Zone)

Cobber 21-33 Fed Com

#4H

OH

Design: OH

Standard Survey Report

10 August, 2020





Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Project	Lea Co., NM (Nad83 - East Zone)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Cobber 21-33 Fed Com		
Site Position:		Northing:	377,715.99 usft
From:	Map	Easting:	806,283.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.035539
		Longitude:	-103.478320
		Grid Convergence:	0.454 °

Well	#4H		
Well Position	+N/-S	0.00 usft	Northing: 377,715.71 usft
	+E/-W	0.00 usft	Easting: 806,253.51 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.035538
		Longitude:	-103.478417
		Ground Level:	3,313.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	06/15/20	6.570
			Dip Angle (°) 59.864
			Field Strength (nT) 47,529.19887064

Design	OH		
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 (°) 179.51

Survey Program	Date	08/10/20		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
203.00	766.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM
894.00	11,860.00	Survey #2 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM
12,003.00	15,541.00	Survey #3 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM
15,636.00	20,477.00	Survey #4 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM
20,575.00	25,546.00	Survey #5 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
203.00	0.35	324.65	203.00	0.51	-0.36	-0.51	0.17	0.17	0.00	
298.00	0.70	333.70	297.99	1.26	-0.78	-1.27	0.38	0.37	9.53	
393.00	0.70	319.38	392.99	2.22	-1.42	-2.24	0.18	0.00	-15.07	
488.00	1.10	285.10	487.98	2.90	-2.68	-2.92	0.69	0.42	-36.08	
582.00	1.45	282.73	581.95	3.40	-4.71	-3.44	0.38	0.37	-2.52	
676.00	1.63	266.47	675.92	3.58	-7.20	-3.64	0.50	0.19	-17.30	



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
766.00	1.93	263.74	765.88	3.33	-9.99	-3.42	0.35	0.33	-3.03
894.00	1.27	268.14	893.83	3.05	-13.55	-3.17	0.52	-0.52	3.44
988.00	0.53	354.88	987.82	3.45	-14.63	-3.58	1.43	-0.79	92.28
1,083.00	1.27	44.10	1,082.80	4.65	-13.93	-4.77	1.06	0.78	51.81
1,177.00	1.27	46.04	1,176.78	6.12	-12.46	-6.22	0.05	0.00	2.06
1,271.00	1.32	37.25	1,270.76	7.70	-11.05	-7.80	0.22	0.05	-9.35
1,366.00	1.23	50.52	1,365.73	9.22	-9.60	-9.30	0.32	-0.09	13.97
1,460.00	1.58	50.17	1,459.71	10.69	-7.83	-10.76	0.37	0.37	-0.37
1,555.00	1.32	75.22	1,554.68	11.81	-5.77	-11.86	0.71	-0.27	26.37
1,650.00	1.23	70.38	1,649.65	12.43	-3.75	-12.46	0.15	-0.09	-5.09
1,745.00	1.49	74.95	1,744.63	13.10	-1.59	-13.11	0.30	0.27	4.81
1,840.00	1.54	73.72	1,839.59	13.77	0.82	-13.77	0.06	0.05	-1.29
1,935.00	1.63	64.93	1,934.56	14.70	3.27	-14.68	0.27	0.09	-9.25
2,030.00	2.07	71.17	2,029.51	15.83	6.12	-15.78	0.51	0.46	6.57
2,125.00	2.11	70.91	2,124.44	16.96	9.40	-16.88	0.04	0.04	-0.27
2,220.00	2.51	74.60	2,219.37	18.08	13.06	-17.97	0.45	0.42	3.88
2,315.00	2.59	67.75	2,314.27	19.45	17.05	-19.30	0.33	0.08	-7.21
2,410.00	2.99	61.68	2,409.16	21.43	21.22	-21.25	0.52	0.42	-6.39
2,505.00	4.57	48.59	2,503.95	25.11	26.24	-24.89	1.88	1.66	-13.78
2,600.00	5.23	46.56	2,598.60	30.59	32.22	-30.32	0.72	0.69	-2.14
2,695.00	5.27	43.75	2,693.21	36.72	38.38	-36.39	0.27	0.04	-2.96
2,790.00	5.85	42.70	2,787.76	43.43	44.68	-43.05	0.62	0.61	-1.11
2,884.00	6.20	42.87	2,881.24	50.67	51.38	-50.23	0.37	0.37	0.18
2,979.00	6.29	39.53	2,975.68	58.45	58.18	-57.95	0.39	0.09	-3.52
3,074.00	6.86	38.13	3,070.05	66.92	65.00	-66.37	0.62	0.60	-1.47
3,169.00	7.43	39.01	3,164.31	76.16	72.37	-75.54	0.61	0.60	0.93
3,264.00	6.90	32.85	3,258.57	85.73	79.33	-85.05	0.98	-0.56	-6.48
3,359.00	6.15	25.56	3,352.96	95.11	84.62	-94.38	1.17	-0.79	-7.67
3,454.00	5.36	20.72	3,447.48	103.85	88.39	-103.09	0.98	-0.83	-5.09
3,549.00	5.76	19.84	3,542.03	112.49	91.57	-111.70	0.43	0.42	-0.93
3,644.00	5.49	23.54	3,636.57	121.14	95.01	-120.32	0.48	-0.28	3.89
3,739.00	4.22	33.64	3,731.23	128.21	98.76	-127.36	1.61	-1.34	10.63
3,834.00	3.82	28.72	3,826.00	133.90	102.22	-133.02	0.56	-0.42	-5.18
3,929.00	4.48	24.94	3,920.75	140.04	105.30	-139.13	0.75	0.69	-3.98
4,024.00	4.70	28.81	4,015.45	146.81	108.74	-145.88	0.40	0.23	4.07
4,119.00	4.04	31.71	4,110.17	153.07	112.38	-152.10	0.73	-0.69	3.05
4,214.00	3.12	30.04	4,204.98	158.16	115.43	-157.16	0.97	-0.97	-1.76
4,309.00	4.48	51.40	4,299.78	162.71	119.62	-161.68	2.04	1.43	22.48
4,404.00	4.44	48.50	4,394.49	167.46	125.28	-166.38	0.24	-0.04	-3.05
4,499.00	5.85	43.49	4,489.10	173.41	131.36	-172.28	1.56	1.48	-5.27
4,594.00	5.27	31.53	4,583.66	180.64	136.98	-179.46	1.36	-0.61	-12.59
4,690.00	3.91	13.96	4,679.35	187.58	140.07	-186.37	2.02	-1.42	-18.30
4,785.00	4.13	0.86	4,774.12	194.14	140.91	-192.93	0.99	0.23	-13.79



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,880.00	2.51	358.84	4,868.96	199.64	140.92	-198.43	1.71	-1.71	-2.13	
4,975.00	0.53	222.08	4,963.93	201.40	140.58	-200.19	3.07	-2.08	-143.96	
5,070.00	2.33	189.91	5,058.90	199.17	139.95	-197.96	2.00	1.89	-33.86	
5,165.00	2.55	195.19	5,153.81	195.22	139.07	-194.03	0.33	0.23	5.56	
5,260.00	2.15	197.56	5,248.73	191.49	137.97	-190.30	0.43	-0.42	2.49	
5,356.00	1.93	201.69	5,344.67	188.27	136.83	-187.09	0.28	-0.23	4.30	
5,451.00	1.58	195.10	5,439.63	185.52	135.90	-184.35	0.42	-0.37	-6.94	
5,546.00	1.49	197.30	5,534.59	183.07	135.19	-181.91	0.11	-0.09	2.32	
5,641.00	1.23	195.54	5,629.57	180.91	134.55	-179.75	0.28	-0.27	-1.85	
5,736.00	1.32	195.36	5,724.54	178.87	133.99	-177.72	0.09	0.09	-0.19	
5,830.00	1.05	186.75	5,818.52	176.97	133.60	-175.83	0.34	-0.29	-9.16	
5,926.00	1.10	197.47	5,914.51	175.22	133.22	-174.08	0.22	0.05	11.17	
6,020.00	1.05	188.42	6,008.49	173.51	132.82	-172.37	0.19	-0.05	-9.63	
6,115.00	0.88	174.80	6,103.48	171.92	132.76	-170.78	0.30	-0.18	-14.34	
6,210.00	0.88	171.90	6,198.47	170.47	132.93	-169.33	0.05	0.00	-3.05	
6,306.00	0.48	281.32	6,294.46	169.82	132.64	-168.68	1.18	-0.42	113.98	
6,401.00	1.63	338.80	6,389.45	171.16	131.76	-170.03	1.51	1.21	60.51	
6,496.00	2.02	349.08	6,484.40	174.06	130.96	-172.94	0.53	0.41	10.82	
6,591.00	1.80	344.25	6,579.35	177.14	130.23	-176.02	0.29	-0.23	-5.08	
6,686.00	1.93	345.57	6,674.30	180.13	129.43	-179.02	0.14	0.14	1.39	
6,781.00	1.80	346.09	6,769.24	183.13	128.67	-182.02	0.14	-0.14	0.55	
6,876.00	0.62	51.66	6,864.22	184.89	128.72	-183.79	1.73	-1.24	69.02	
6,971.00	0.48	93.76	6,959.22	185.19	129.52	-184.07	0.44	-0.15	44.32	
7,066.00	0.66	77.15	7,054.22	185.28	130.45	-184.16	0.26	0.19	-17.48	
7,161.00	0.53	83.65	7,149.21	185.45	131.42	-184.32	0.15	-0.14	6.84	
7,256.00	0.57	86.03	7,244.21	185.53	132.33	-184.40	0.05	0.04	2.51	
7,350.00	0.48	68.01	7,338.20	185.71	133.16	-184.57	0.20	-0.10	-19.17	
7,445.00	0.57	74.95	7,433.20	185.99	133.98	-184.83	0.12	0.09	7.31	
7,540.00	0.31	53.16	7,528.20	186.26	134.65	-185.10	0.32	-0.27	-22.94	
7,634.00	0.35	106.24	7,622.19	186.33	135.12	-185.17	0.32	0.04	56.47	
7,729.00	0.40	137.62	7,717.19	186.01	135.63	-184.84	0.22	0.05	33.03	
7,824.00	0.35	113.71	7,812.19	185.65	136.12	-184.48	0.17	-0.05	-25.17	
7,919.00	0.26	93.15	7,907.19	185.52	136.60	-184.34	0.15	-0.09	-21.64	
8,014.00	0.13	72.40	8,002.19	185.54	136.92	-184.36	0.15	-0.14	-21.84	
8,109.00	0.31	222.87	8,097.19	185.38	136.84	-184.21	0.45	0.19	158.39	
8,204.00	0.35	224.54	8,192.19	184.99	136.46	-183.81	0.04	0.04	1.76	
8,299.00	0.35	232.45	8,287.19	184.60	136.03	-183.43	0.05	0.00	8.33	
8,394.00	0.40	205.03	8,382.18	184.13	135.66	-182.96	0.19	0.05	-28.86	
8,489.00	0.57	185.87	8,477.18	183.36	135.47	-182.19	0.24	0.18	-20.17	
8,584.00	0.48	181.65	8,572.18	182.49	135.41	-181.32	0.10	-0.09	-4.44	
8,680.00	0.57	166.01	8,668.17	181.62	135.52	-180.46	0.18	0.09	-16.29	
8,775.00	0.62	158.18	8,763.17	180.69	135.82	-179.52	0.10	0.05	-8.24	
8,870.00	0.66	165.13	8,858.16	179.68	136.15	-178.51	0.09	0.04	7.32	
8,965.00	0.84	164.16	8,953.15	178.48	136.48	-177.31	0.19	0.19	-1.02	



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,061.00	0.75	166.36	9,049.14	177.19	136.82	-176.02	0.10	-0.09	2.29	
9,155.00	0.53	147.90	9,143.14	176.23	137.20	-175.05	0.32	-0.23	-19.64	
9,250.00	0.53	141.66	9,238.13	175.51	137.71	-174.33	0.06	0.00	-6.57	
9,345.00	0.44	142.72	9,333.13	174.88	138.20	-173.69	0.10	-0.09	1.12	
9,440.00	0.44	138.50	9,428.13	174.31	138.66	-173.12	0.03	0.00	-4.44	
9,535.00	0.40	142.54	9,523.12	173.78	139.11	-172.58	0.05	-0.04	4.25	
9,629.00	0.22	117.05	9,617.12	173.43	139.47	-172.24	0.24	-0.19	-27.12	
9,724.00	0.18	162.14	9,712.12	173.21	139.67	-172.01	0.17	-0.04	47.46	
9,819.00	0.22	206.17	9,807.12	172.90	139.64	-171.70	0.16	0.04	46.35	
9,913.00	0.13	176.29	9,901.12	172.64	139.57	-171.44	0.13	-0.10	-31.79	
10,008.00	0.13	28.28	9,996.12	172.62	139.62	-171.42	0.26	0.00	-155.80	
10,104.00	0.35	18.44	10,092.12	173.00	139.77	-171.80	0.23	0.23	-10.25	
10,198.00	0.26	31.89	10,186.12	173.45	139.97	-172.25	0.12	-0.10	14.31	
10,293.00	0.22	118.19	10,281.12	173.55	140.25	-172.34	0.35	-0.04	90.84	
10,388.00	0.62	96.93	10,376.12	173.40	140.92	-172.19	0.44	0.42	-22.38	
10,483.00	0.79	106.42	10,471.11	173.15	142.06	-171.93	0.22	0.18	9.99	
10,579.00	1.14	76.01	10,567.10	173.20	143.62	-171.96	0.63	0.36	-31.68	
10,668.60	1.36	61.86	10,656.67	173.91	145.42	-172.66	0.42	0.25	-15.79	
10,769.00	1.01	36.98	10,757.05	175.18	147.00	-173.92	0.61	-0.35	-24.78	
10,864.00	1.01	359.45	10,852.04	176.69	147.50	-175.42	0.68	0.00	-39.51	
10,959.00	1.27	316.92	10,947.02	178.29	146.77	-177.03	0.91	0.27	-44.77	
11,053.00	2.02	303.12	11,040.98	179.96	144.67	-178.72	0.90	0.80	-14.68	
11,148.00	2.59	303.12	11,135.91	182.05	141.47	-180.83	0.60	0.60	0.00	
11,243.00	2.95	300.13	11,230.80	184.45	137.56	-183.26	0.41	0.38	-3.15	
11,339.00	3.03	298.46	11,326.66	186.90	133.19	-185.75	0.12	0.08	-1.74	
11,433.00	3.12	303.91	11,420.53	189.51	128.89	-188.40	0.33	0.10	5.80	
11,528.00	3.82	310.94	11,515.36	193.02	124.35	-191.95	0.86	0.74	7.40	
11,623.00	3.65	307.51	11,610.15	196.94	119.56	-195.91	0.30	-0.18	-3.61	
11,718.00	3.74	289.32	11,704.96	199.81	114.24	-198.82	1.23	0.09	-19.15	
11,812.00	4.00	293.45	11,798.75	202.12	108.34	-201.19	0.41	0.28	4.39	
11,860.00	3.82	291.34	11,846.63	203.37	105.31	-202.46	0.48	-0.37	-4.40	
12,003.00	3.65	297.14	11,989.33	207.18	96.82	-206.35	0.29	-0.12	4.06	
12,098.00	1.80	275.26	12,084.22	208.70	92.65	-207.90	2.20	-1.95	-23.03	
12,193.00	2.29	274.73	12,179.16	208.99	89.27	-208.22	0.52	0.52	-0.56	
12,288.00	6.59	170.14	12,273.94	203.77	88.31	-203.01	7.89	4.53	-110.09	
12,382.00	19.65	172.16	12,365.29	182.71	91.40	-181.92	13.90	13.89	2.15	
12,477.00	29.93	171.37	12,451.42	143.35	97.15	-142.51	10.83	10.82	-0.83	
12,572.00	38.86	173.04	12,529.74	90.22	104.34	-89.33	9.45	9.40	1.76	
12,667.00	45.93	174.18	12,599.85	26.61	111.42	-25.65	7.49	7.44	1.20	
12,762.00	52.00	178.40	12,662.21	-44.85	115.93	45.84	7.21	6.39	4.44	
12,857.00	64.09	177.34	12,712.39	-125.24	118.97	126.26	12.76	12.73	-1.12	
12,952.00	73.54	176.91	12,746.69	-213.61	123.42	214.66	9.96	9.95	-0.45	
13,047.00	82.73	176.73	12,766.20	-306.34	128.57	307.43	9.68	9.67	-0.19	



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,142.00	90.02	179.28	12,772.20	-401.02	131.86	402.13	8.13	7.67	2.68
13,237.00	89.41	179.10	12,772.67	-496.01	133.20	497.13	0.67	-0.64	-0.19
13,332.00	87.78	178.58	12,775.00	-590.96	135.13	592.09	1.80	-1.72	-0.55
13,427.00	87.38	178.22	12,779.01	-685.83	137.78	686.99	0.57	-0.42	-0.38
13,522.00	88.18	177.96	12,782.69	-780.71	140.94	781.89	0.89	0.84	-0.27
13,616.00	86.68	176.47	12,786.91	-874.50	145.50	875.71	2.25	-1.60	-1.59
13,711.00	90.68	178.58	12,789.10	-969.36	149.60	970.60	4.76	4.21	2.22
13,806.00	91.16	177.78	12,787.57	-1,064.30	152.62	1,065.56	0.98	0.51	-0.84
13,901.00	89.14	175.41	12,787.32	-1,159.12	158.26	1,160.43	3.28	-2.13	-2.49
13,996.00	88.44	175.59	12,789.33	-1,253.80	165.71	1,255.18	0.76	-0.74	0.19
14,091.00	90.59	176.99	12,790.13	-1,348.59	171.86	1,350.01	2.70	2.26	1.47
14,186.00	87.74	175.76	12,791.52	-1,443.38	177.86	1,444.85	3.27	-3.00	-1.29
14,281.00	89.54	176.91	12,793.77	-1,538.16	183.93	1,539.67	2.25	1.89	1.21
14,328.00	90.33	177.08	12,793.83	-1,585.09	186.40	1,586.63	1.72	1.68	0.36
14,375.00	91.30	179.10	12,793.16	-1,632.06	187.96	1,633.60	4.77	2.06	4.30
14,470.00	93.01	180.68	12,789.59	-1,726.98	188.15	1,728.53	2.45	1.80	1.66
14,565.00	92.13	181.30	12,785.33	-1,821.87	186.51	1,823.40	1.13	-0.93	0.65
14,660.00	91.56	182.18	12,782.27	-1,916.78	183.62	1,918.28	1.10	-0.60	0.93
14,755.00	91.82	181.83	12,779.47	-2,011.68	180.30	2,013.15	0.46	0.27	-0.37
14,850.00	94.51	181.56	12,774.22	-2,106.48	177.49	2,107.92	2.85	2.83	-0.28
14,945.00	89.80	181.04	12,770.65	-2,201.36	175.34	2,202.78	4.99	-4.96	-0.55
15,040.00	90.51	180.33	12,770.39	-2,296.36	174.21	2,297.76	1.06	0.75	-0.75
15,134.00	88.70	180.25	12,771.04	-2,390.35	173.73	2,391.75	1.93	-1.93	-0.09
15,229.00	88.62	178.58	12,773.26	-2,485.31	174.70	2,486.72	1.76	-0.08	-1.76
15,324.00	92.40	179.10	12,772.42	-2,580.27	176.62	2,581.69	4.02	3.98	0.55
15,419.00	90.99	180.77	12,769.61	-2,675.23	176.73	2,676.64	2.30	-1.48	1.76
15,514.00	86.20	182.97	12,772.60	-2,797.08	172.75	2,798.46	4.32	-3.93	1.80
15,636.00	88.40	183.41	12,777.07	-2,891.82	167.47	2,893.15	2.36	2.32	0.46
15,731.00	88.62	183.32	12,779.54	-2,986.63	161.90	2,987.90	0.25	0.23	-0.09
15,826.00	88.88	183.15	12,781.62	-3,081.45	156.54	3,082.68	0.33	0.27	-0.18
15,921.00	89.27	183.76	12,783.15	-3,176.27	150.81	3,177.44	0.76	0.41	0.64
16,016.00	89.45	184.64	12,784.21	-3,271.00	143.86	3,272.12	0.95	0.19	0.93
16,110.00	90.51	183.50	12,784.24	-3,364.76	137.19	3,365.81	1.66	1.13	-1.21
16,205.00	91.52	181.21	12,782.56	-3,459.66	133.28	3,460.68	2.63	1.06	-2.41
16,300.00	91.60	180.77	12,779.97	-3,554.61	131.64	3,555.61	0.47	0.08	-0.46
16,395.00	92.70	182.18	12,776.41	-3,649.51	129.20	3,650.48	1.88	1.16	1.48
16,490.00	89.98	179.72	12,774.19	-3,744.45	127.63	3,745.41	3.86	-2.86	-2.59
16,585.00	90.51	179.89	12,773.78	-3,839.45	127.95	3,840.41	0.59	0.56	0.18
16,679.00	89.32	177.52	12,773.92	-3,933.42	130.07	3,934.39	2.82	-1.27	-2.52
16,774.00	89.89	177.17	12,774.58	-4,028.32	134.47	4,029.32	0.70	0.60	-0.37
16,869.00	91.52	179.10	12,773.41	-4,123.25	137.57	4,124.28	2.66	1.72	2.03
16,964.00	89.85	180.16	12,772.27	-4,218.24	138.18	4,219.26	2.08	-1.76	1.12
17,059.00	92.44	184.29	12,770.37	-4,313.12	134.49	4,314.11	5.13	2.73	4.35



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
17,154.00	89.45	182.97	12,768.81	-4,407.90	128.48	4,408.84	3.44	-3.15	-1.39
17,249.00	88.70	181.39	12,770.34	-4,502.82	124.87	4,503.72	1.84	-0.79	-1.66
17,344.00	88.66	180.16	12,772.53	-4,597.78	123.58	4,598.67	1.30	-0.04	-1.29
17,439.00	90.11	182.00	12,773.55	-4,692.75	121.79	4,693.62	2.47	1.53	1.94
17,534.00	92.66	179.54	12,771.25	-4,787.70	120.52	4,788.56	3.73	2.68	-2.59
17,629.00	89.71	180.77	12,769.29	-4,882.67	120.26	4,883.52	3.36	-3.11	1.29
17,724.00	89.76	180.60	12,769.73	-4,977.66	119.12	4,978.50	0.19	0.05	-0.18
17,819.00	87.74	178.05	12,771.80	-5,072.62	120.24	5,073.46	3.42	-2.13	-2.68
17,914.00	83.16	181.65	12,779.34	-5,167.28	120.50	5,168.12	6.12	-4.82	3.79
18,009.00	86.07	181.74	12,788.25	-5,261.81	117.70	5,262.62	3.06	3.06	0.09
18,104.00	88.62	182.00	12,792.65	-5,356.65	114.60	5,357.43	2.70	2.68	0.27
18,199.00	91.96	179.98	12,792.17	-5,451.61	112.96	5,452.38	4.11	3.52	-2.13
18,294.00	88.31	178.14	12,791.95	-5,546.58	114.52	5,547.36	4.30	-3.84	-1.94
18,389.00	91.16	178.66	12,792.38	-5,641.53	117.17	5,642.33	3.05	3.00	0.55
18,484.00	91.21	177.17	12,790.42	-5,736.44	120.63	5,737.27	1.57	0.05	-1.57
18,579.00	90.68	177.08	12,788.85	-5,831.31	125.39	5,832.17	0.57	-0.56	-0.09
18,674.00	89.89	178.14	12,788.38	-5,926.23	129.35	5,927.12	1.39	-0.83	1.12
18,769.00	91.21	178.40	12,787.47	-6,021.18	132.22	6,022.09	1.42	1.39	0.27
18,864.00	88.04	178.93	12,788.09	-6,116.14	134.43	6,117.06	3.38	-3.34	0.56
18,959.00	91.25	179.54	12,788.68	-6,211.11	135.70	6,212.05	3.44	3.38	0.64
19,054.00	88.48	178.75	12,788.90	-6,306.09	137.12	6,307.03	3.03	-2.92	-0.83
19,149.00	92.04	179.89	12,788.47	-6,401.07	138.25	6,402.02	3.93	3.75	1.20
19,244.00	87.87	176.55	12,788.55	-6,495.99	141.20	6,496.96	5.62	-4.39	-3.52
19,339.00	91.38	177.52	12,789.17	-6,590.84	146.11	6,591.85	3.83	3.69	1.02
19,434.00	89.14	176.29	12,788.74	-6,685.69	151.24	6,686.74	2.69	-2.36	-1.29
19,528.00	89.19	177.34	12,790.11	-6,779.54	156.46	6,780.63	1.12	0.05	1.12
19,623.00	90.86	178.22	12,790.07	-6,874.46	160.14	6,875.58	1.99	1.76	0.93
19,718.00	90.46	179.45	12,788.97	-6,969.43	162.07	6,970.57	1.36	-0.42	1.29
19,813.00	89.01	181.04	12,789.41	-7,064.43	161.67	7,065.55	2.27	-1.53	1.67
19,908.00	91.69	182.97	12,788.83	-7,159.35	158.34	7,160.45	3.48	2.82	2.03
20,003.00	89.23	180.86	12,788.07	-7,254.29	155.17	7,255.35	3.41	-2.59	-2.22
20,098.00	89.41	180.51	12,789.19	-7,349.27	154.03	7,350.32	0.41	0.19	-0.37
20,193.00	91.03	179.72	12,788.83	-7,444.27	153.84	7,445.31	1.90	1.71	-0.83
20,287.00	89.67	180.51	12,788.26	-7,538.26	153.65	7,539.30	1.67	-1.45	0.84
20,382.00	89.89	179.72	12,788.62	-7,633.26	153.46	7,634.29	0.86	0.23	-0.83
20,477.00	91.96	179.28	12,787.09	-7,728.24	154.29	7,729.28	2.23	2.18	-0.46
20,575.00	91.69	179.28	12,783.97	-7,826.18	155.52	7,827.23	0.28	-0.28	0.00
20,670.00	92.40	179.45	12,780.58	-7,921.11	156.58	7,922.16	0.77	0.75	0.18
20,765.00	90.64	179.63	12,778.06	-8,016.07	157.34	8,017.13	1.86	-1.85	0.19
20,860.00	90.68	178.93	12,776.96	-8,111.06	158.53	8,112.12	0.74	0.04	-0.74
20,955.00	88.18	178.58	12,777.91	-8,206.02	160.60	8,207.10	2.66	-2.63	-0.37
21,050.00	88.57	179.72	12,780.60	-8,300.97	162.00	8,302.06	1.27	0.41	1.20
21,145.00	89.01	181.12	12,782.61	-8,395.95	161.31	8,397.02	1.54	0.46	1.47
21,240.00	91.38	181.92	12,782.28	-8,490.91	158.79	8,491.95	2.63	2.49	0.84



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
21,335.00	88.31	179.45	12,782.54	-8,585.88	157.65	8,586.92	4.15	-3.23	-2.60	
21,430.00	88.66	180.07	12,785.05	-8,680.85	158.05	8,681.88	0.75	0.37	0.65	
21,525.00	87.82	176.99	12,787.97	-8,775.76	160.49	8,776.81	3.36	-0.88	-3.24	
21,620.00	87.25	176.91	12,792.06	-8,870.53	165.54	8,871.63	0.61	-0.60	-0.08	
21,714.00	88.13	177.17	12,795.85	-8,964.33	170.39	8,965.46	0.98	0.94	0.28	
21,809.00	87.96	177.34	12,799.09	-9,059.17	174.93	9,060.33	0.25	-0.18	0.18	
21,904.00	89.19	177.78	12,801.45	-9,154.05	178.98	9,155.25	1.38	1.29	0.46	
21,999.00	90.59	177.61	12,801.63	-9,248.97	182.80	9,250.20	1.48	1.47	-0.18	
22,094.00	89.58	177.17	12,801.49	-9,343.87	187.12	9,345.13	1.16	-1.06	-0.46	
22,188.00	89.54	177.43	12,802.21	-9,437.76	191.55	9,439.06	0.28	-0.04	0.28	
22,283.00	90.68	178.58	12,802.03	-9,532.70	194.86	9,534.02	1.70	1.20	1.21	
22,378.00	90.46	176.99	12,801.08	-9,627.62	198.53	9,628.97	1.69	-0.23	-1.67	
22,473.00	88.84	176.20	12,801.67	-9,722.45	204.17	9,723.84	1.90	-1.71	-0.83	
22,567.00	91.08	177.26	12,801.73	-9,816.29	209.53	9,817.72	2.64	2.38	1.13	
22,662.00	90.37	176.82	12,800.53	-9,911.16	214.44	9,912.63	0.88	-0.75	-0.46	
22,757.00	88.75	174.01	12,801.26	-10,005.84	222.03	10,007.37	3.41	-1.71	-2.96	
22,852.00	90.64	176.91	12,801.76	-10,100.52	229.55	10,102.12	3.64	1.99	3.05	
22,947.00	92.18	179.81	12,799.43	-10,195.44	232.27	10,197.05	3.46	1.62	3.05	
23,042.00	91.30	179.89	12,796.54	-10,290.40	232.51	10,292.01	0.93	-0.93	0.08	
23,137.00	90.90	179.81	12,794.72	-10,385.38	232.76	10,386.99	0.43	-0.42	-0.08	
23,232.00	90.73	179.10	12,793.37	-10,480.36	233.67	10,481.98	0.77	-0.18	-0.75	
23,327.00	89.80	180.25	12,792.93	-10,575.36	234.21	10,576.97	1.56	-0.98	1.21	
23,422.00	90.95	180.16	12,792.31	-10,670.35	233.87	10,671.96	1.21	1.21	-0.09	
23,516.00	90.20	179.01	12,791.36	-10,764.34	234.55	10,765.96	1.46	-0.80	-1.22	
23,611.00	91.16	179.45	12,790.23	-10,859.33	235.82	10,860.95	1.11	1.01	0.46	
23,706.00	93.10	179.54	12,786.70	-10,954.25	236.66	10,955.88	2.04	2.04	0.09	
23,801.00	92.66	178.84	12,781.93	-11,049.12	238.00	11,050.76	0.87	-0.46	-0.74	
23,896.00	92.75	177.78	12,777.45	-11,143.98	240.80	11,145.63	1.12	0.09	-1.12	
23,991.00	91.87	177.43	12,773.62	-11,238.81	244.77	11,240.50	1.00	-0.93	-0.37	
24,086.00	92.40	175.85	12,770.08	-11,333.58	250.33	11,335.31	1.75	0.56	-1.66	
24,181.00	92.00	177.26	12,766.43	-11,428.34	256.03	11,430.11	1.54	-0.42	1.48	
24,276.00	89.71	178.40	12,765.01	-11,523.25	259.63	11,525.05	2.69	-2.41	1.20	
24,371.00	90.11	178.84	12,765.16	-11,618.22	261.92	11,620.04	0.63	0.42	0.46	
24,466.00	90.90	177.78	12,764.33	-11,713.18	264.72	11,715.01	1.39	0.83	-1.12	
24,561.00	90.64	178.22	12,763.05	-11,808.11	268.04	11,809.97	0.54	-0.27	0.46	
24,656.00	88.79	179.98	12,763.52	-11,903.09	269.53	11,904.96	2.69	-1.95	1.85	
24,751.00	88.75	180.07	12,765.56	-11,998.07	269.49	11,999.93	0.10	-0.04	0.09	
24,846.00	88.53	180.25	12,767.82	-12,093.04	269.22	12,094.90	0.30	-0.23	0.19	
24,941.00	88.57	179.01	12,770.22	-12,188.00	269.83	12,189.87	1.31	0.04	-1.31	
25,035.00	89.23	178.22	12,772.02	-12,281.96	272.11	12,283.84	1.10	0.70	-0.84	
25,130.00	90.64	177.96	12,772.13	-12,376.90	275.27	12,378.81	1.51	1.48	-0.27	
25,225.00	92.13	177.43	12,769.84	-12,471.80	279.09	12,473.73	1.66	1.57	-0.56	
25,320.00	93.23	177.61	12,765.39	-12,566.60	283.20	12,568.56	1.17	1.16	0.19	



Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #4H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Site:	Cobber 21-33 Fed Com	MD Reference:	RKB=30' @ 3343.00usft (Cactus 108)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
25,414.00	93.80	177.70	12,759.63	-12,660.35	287.04	12,662.34	0.61	0.61	0.10
25,488.00	93.93	175.32	12,754.64	-12,734.04	291.53	12,736.06	3.21	0.18	-3.22
25,546.00	93.93	175.32	12,750.67	-12,791.71	296.25	12,793.77	0.00	0.00	0.00
TD: Y= 364924.00 / X= 806549.76 - Projection to Bit: 25546.00' MD/ 12750.67' TVD - Final Station Closure Distance= 1279									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
#4H Final Bit Proj. @ - actual wellpath hits target center - Point	0.00	0.00	12,750.67	-12,791.71	296.25	364,924.00	806,549.76	32.000372	-103.477788
Section X-ing: 1608' F - actual wellpath hits target center - Point	0.00	0.00	12,770.77	-5,042.36	119.43	372,673.35	806,372.93	32.021676	-103.478160
Section X-ing: 1675' F - actual wellpath hits target center - Point	0.00	0.00	12,795.86	-10,322.29	232.58	367,393.42	806,486.09	32.007161	-103.477930

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
25,546.00	12,750.67	-12,791.71	296.25	TD: Y= 364924.00 / X= 806549.76	
25,546.00	12,750.67	-12,791.71	296.25	Projection to Bit: 25546.00' MD/ 12750.67' TVD	
25,546.00	12,750.67	-12,791.71	296.25	Final Station Closure Distance= 12795.14 /Direction= 178.67	
25,546.00	12,750.67	-12,791.71	296.25	TD: Latitude= 32.000371 / Longitude= -103.477788	

Checked By: _____	Approved By: _____	Date: _____
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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.	30-025-46921
5. Indicate Type of Lease STATE ☐ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	Cobber 21-33 Fed Com
8. Well Number	4H
9. OGRID Number	6137
10. Pool name or Wildcat	WC-025 G-09 S263504N; 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>C</u> : <u>234</u> feet from the <u>North</u> line and <u>1532</u> feet from the <u>West</u> line Section <u>21</u> Township <u>26S</u> Range <u>34E</u> NMPM County <u>Lea</u> 11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 3313'	
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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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: ☐

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.

9/15/20 - 1/5/21: MIRU WL & PT. TIH & ran CBL, found TOC @ 4173'. PT csg for 30min, OK. TIH w/pump through frac plug and guns. Perf Wolfcamp, 13,000'-25,349'. Frac totals 30,771,780# prop, 79 bbl acid. ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 25,452'. CHC, FWB, ND BOP. No Tubing Ran. TOP.

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

SIGNATURE Rebecca Deal TITLE Regulatory Analyst DATE 2/4/2021

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. 30-025-46921			
		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 Cobber 21-33 Fed Com 6. Well Number: 4H	
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER				KZ	
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 S263504N; Wolfcamp	
JABALINA: WOLF CAMP, SOUTHWEST					
12. Location	Unit Ltr	Section	Township	Range	Feet from the
Surface:	C	21	26S	34E	234
BH:		33	26S	34E	3
					36
13. Date Spudded 4/30/20	14. Date T.D. Reached 8/9/20	15. Date Rig Released 8/16/20		16. Date Completed (Ready to Produce) 1/5/21	
				17. Elevations (DF and RKB, RT, GR, etc.) 3313' GL	
18. Total Measured Depth of Well 25546 MD, 12751 TVD		19. Plug Back Measured Depth 25452		20. Was Directional Survey Made? Yes	
				21. Type Electric and Other Logs Run CBL	
22. Producing Interval(s), of this completion - Top, Bottom, Name 13000-25349, Wolfcamp					
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	840	17.5	650 sx CIC; circ 337 sx	
8.625	32	11909	9.875	785 sx cmt; circ 4 sx	
5.5 & 5	20 & 18	25454	7.875 & 6.75	1155 sx CIH; circ 0 sx	TOC @ 8529
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
26. Perforation record (interval, size, and number) 13000 - 25349, total 1224 holes			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 13000-25349		
			AMOUNT AND KIND MATERIAL USED Acidize and frac in 62 stages. See detailed summary attached.		
28. PRODUCTION					
Date First Production 1/5/21		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing		Well Status (Prod. or Shut-in) Producing	
Date of Test 1/27/21	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 645	Gas - MCF 1065
				Water - Bbl. 3540	Gas - Oil Ratio 1651.16279
Flow Tubing Press. psi	Casing Pressure 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	Regulatory Analyst	Date
Rebecca Deal	Rebecca Deal				2/1/2021
E-mail Address Rebecca.Deal@dmv.com					

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
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District IV
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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

CONDITIONS

Action 16971

CONDITIONS OF APPROVAL

Operator:	DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	OGRID:	6137	Action Number:	16971	Action Type:	C-104C
OCD Reviewer	Condition								
plmartinez	None								