

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

Test Allowable, New Well and Recompleted Well Amended C-104

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner
- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☒ Directional Survey
 - ☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent) approved BLM Copy
- ☒ C-105 Completion Report (or BLM equivalent) approved BLM Copy
- ☐ All Logs Run on Well

If you have any questions please contact the local OCD District Office

RECEIVED

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
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, 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, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45277	² Pool Code 39350	³ Pool Name Livingston Ridge; Bone Spring
⁴ Property Code	⁵ Property Name BELLOQ 11-2 FED STATE COM	⁶ Well Number 231H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3428.4

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	11	23 S	31 E		300	SOUTH	480	WEST	EDDY

¹¹ 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
4	2	23 S	31 E		47	NORTH	399	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320			

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.

N89°43'53"E 2641.96 FT N89°43'53"E 2641.96 FT NW CORNER SEC. 2 LAT. = 32.3407356°N LONG. = 103.7571603°W NMSP EAST (FT) N = 488170.26 E = 719281.88 W/4 CORNER SEC. 2 LAT. = 32.3335234°N LONG. = 103.7571441°W NMSP EAST (FT) N = 485546.51 E = 719301.00 SECTION CORNER LAT. = 32.3262643°N LONG. = 103.7571278°W NMSP EAST (FT) N = 482905.72 E = 719320.25 W/4 CORNER SEC. 11 LAT. = 32.3190067°N LONG. = 103.7571257°W NMSP EAST (FT) N = 480265.44 E = 719335.09 SW CORNER SEC. 11 LAT. = 32.3117463°N LONG. = 103.7571237°W NMSP EAST (FT) N = 477624.13 E = 719349.92		N/4 CORNER SEC. 2 LAT. = 32.3407245°N LONG. = 103.7400556°W NMSP EAST (FT) N = 488195.03 E = 724564.59 E/4 CORNER SEC. 2 LAT. = 32.3334649°N LONG. = 103.7400345°W NMSP EAST (FT) N = 485554.08 E = 724585.72 SECTION CORNER LAT. = 32.3262057°N LONG. = 103.7400123°W NMSP EAST (FT) N = 482913.26 E = 724607.20 E/4 CORNER SEC. 11 LAT. = 32.3189531°N LONG. = 103.7400200°W NMSP EAST (FT) N = 480274.75 E = 724619.44 SE CORNER SEC. 11 LAT. = 32.3116999°N LONG. = 103.7400280°W NMSP EAST (FT) N = 477636.10 E = 724631.57	
LOT 4 39.49 AC LOT 3 LOT 2 LOT 1 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID-(NAD83)-BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD83. QUARTER CORNER LAT. = 32.3262353°N LONG. = 103.7485656°W NMSP EAST (FT) N = 482909.48 E = 721965.08 SECTION CORNER LAT. = 32.3262057°N LONG. = 103.7400123°W NMSP EAST (FT) N = 482913.26 E = 724607.20		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Jenny Harms</i> 9-10-2019 Signature Date Jenny Harms Printed Name Jenny.harms@dvn.com E-mail Address	
SECTION CORNER LAT. = 32.3262353°N LONG. = 103.7485656°W NMSP EAST (FT) N = 482909.48 E = 721965.08 SECTION CORNER LAT. = 32.3262057°N LONG. = 103.7400123°W NMSP EAST (FT) N = 482913.26 E = 724607.20		¹⁸ 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. APRIL 27, 2018 Date of Survey <i>William F. Jaramila</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 Surveyor No. 5231C	

RECEIVED

Intent ☐ As Drilled ☒ XX

SEP 12 2019

API #
300-15-45277

DISTRICT/ARTESIAO.C.D.

Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: BELLOQ 11-2 FED STATE COM	Well Number 231H
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Kick Off Point (KOP)

UL M	Section 11	Township 23S	Range 31E	Lot	Feet 239	From N/S SOUTH	Feet 345	From E/W WEST	County EDDY
Latitude 32.3124013					Longitude 103.7560081			NAD 83	

First Take Point (FTP)

UL M	Section 11	Township 23S	Range 31E	Lot	Feet 684	From N/S SOUTH	Feet 395	From E/W WEST	County EDDY
Latitude 32.3136225					Longitude 103.7558444			NAD 83	

Last Take Point (LTP)

UL D	Section 2	Township 23S	Range 31E	Lot 4	Feet 196	From N/S NORTH	Feet 410	From E/W WEST	County EDDY
Latitude 32.3401961					Longitude 103.7558330			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☒ yes

Is this well an infill well? ☐ no

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

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SEP 12 2019

DISTRICT 71 - ARTESIA O.C.D.

Devon

SURVEY REPORT

Belloq 11-2 Fed State Com 231H

Nabors X15

This survey is correct to the best of my knowledge and is supported by actual field data.

Larry D. Burton

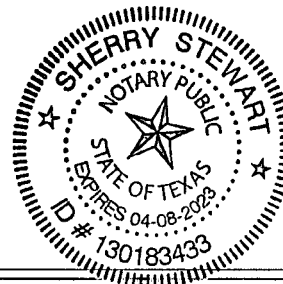
Notarized this data 16th of August, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The Ultimate Partner In Wellbore Placement

Devon Energy

Eddy County, NM (NAD83 NME)
Belloq 11-2 Fed State Com
231H

OH

Survey: SDI Survey #1

Standard Survey Report

13 March, 2019



www.scientificdrilling.com

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Com	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy 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	Belloq 11-2 Fed State Com		
Site Position:		Northing:	477,925.32 usft
From:	Map	Easting:	719,828.19 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 45.241 N
		Longitude:	103° 45' 20.053 W
		Grid Convergence:	0.31 °

Well	231H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 18' 45.241 N
		Longitude:	103° 45' 20.053 W
		Ground Level:	3,429.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	12/18/2018	6.87
			Dip Angle
			(°)
			60.05
			Field Strength
			(nT)
			48,028

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			359.19

Survey Program	Date 2/11/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
164.00	20,350.00	SDI Survey #1 (OH)	MWD+HDGM
			Description
			OWSG MWD + HDGM

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(bearing)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
164.00	0.23	23.15	164.00	0.30	0.13	0.30	0.14	0.14	0.00	
238.00	0.21	41.69	238.00	0.54	0.28	0.54	0.10	-0.03	25.05	
329.00	0.28	24.93	329.00	0.87	0.48	0.86	0.11	0.08	-18.42	
421.00	0.35	31.99	421.00	1.31	0.73	1.30	0.09	0.08	7.67	
513.00	0.24	17.10	513.00	1.73	0.93	1.72	0.14	-0.12	-16.18	
604.00	0.20	49.34	603.99	2.02	1.11	2.00	0.14	-0.04	35.43	
679.00	0.28	30.57	678.99	2.26	1.30	2.24	0.15	0.11	-25.03	
787.00	0.38	25.83	786.99	2.81	1.59	2.79	0.10	0.09	-4.39	
877.00	0.50	354.79	876.99	3.47	1.69	3.45	0.29	0.13	-34.49	

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Com	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
968.00	0.37	17.10	967.99	4.15	1.74	4.12	0.23	-0.14	24.52
1,059.00	0.24	356.32	1,058.99	4.62	1.81	4.59	0.19	-0.14	-22.84
1,150.00	0.44	39.76	1,149.98	5.08	2.02	5.05	0.34	0.22	47.74
1,242.00	0.37	53.04	1,241.98	5.53	2.48	5.49	0.13	-0.08	14.43
1,335.00	0.27	151.70	1,334.98	5.51	2.83	5.47	0.53	-0.11	106.09
1,426.00	0.15	79.55	1,425.98	5.35	3.05	5.30	0.29	-0.13	-79.29
1,519.00	0.05	67.93	1,518.98	5.38	3.20	5.34	0.11	-0.11	-12.49
1,611.00	0.09	164.53	1,610.98	5.33	3.26	5.28	0.12	0.04	105.00
1,706.00	0.07	250.87	1,705.98	5.24	3.23	5.19	0.12	-0.02	90.88
1,801.00	0.03	84.58	1,800.98	5.22	3.20	5.18	0.10	-0.04	-175.04
1,896.00	0.14	224.85	1,895.98	5.14	3.14	5.10	0.17	0.12	147.65
1,991.00	0.11	221.35	1,990.98	4.99	3.00	4.95	0.03	-0.03	-3.68
2,086.00	0.30	200.80	2,085.98	4.69	2.85	4.65	0.21	0.20	-21.63
2,181.00	0.24	233.89	2,180.98	4.34	2.60	4.30	0.17	-0.06	34.83
2,276.00	0.21	223.40	2,275.98	4.10	2.32	4.06	0.05	-0.03	-11.04
2,371.00	0.46	228.63	2,370.98	3.72	1.91	3.69	0.26	0.26	5.51
2,466.00	0.58	232.67	2,465.97	3.17	1.24	3.16	0.13	0.13	4.25
2,561.00	0.64	237.87	2,560.97	2.60	0.41	2.59	0.09	0.06	5.47
2,655.00	0.39	260.39	2,654.96	2.27	-0.35	2.27	0.34	-0.27	23.96
2,750.00	0.34	266.85	2,749.96	2.20	-0.95	2.21	0.07	-0.05	6.80
2,845.00	0.30	257.47	2,844.96	2.13	-1.47	2.15	0.07	-0.04	-9.87
2,940.00	0.44	301.06	2,939.96	2.26	-2.03	2.29	0.32	0.15	45.88
3,035.00	1.41	347.48	3,034.95	3.59	-2.59	3.63	1.21	1.02	48.86
3,129.00	1.89	299.86	3,128.91	5.49	-4.19	5.55	1.49	0.51	-50.66
3,224.00	3.14	263.53	3,223.82	5.98	-8.13	6.09	2.07	1.32	-38.24
3,319.00	4.90	250.79	3,318.59	4.35	-14.55	4.56	2.07	1.85	-13.41
3,414.00	5.04	253.43	3,413.23	1.83	-22.38	2.14	0.28	0.15	2.78
3,509.00	4.34	253.97	3,507.91	-0.36	-29.84	0.07	0.74	-0.74	0.57
3,604.00	3.42	247.57	3,602.69	-2.43	-35.91	-1.92	1.07	-0.97	-6.74
3,698.00	2.93	233.97	3,696.55	-4.91	-40.44	-4.34	0.95	-0.52	-14.47
3,793.00	2.75	233.94	3,791.43	-7.68	-44.25	-7.06	0.19	-0.19	-0.03
3,888.00	3.29	230.67	3,886.30	-10.75	-48.20	-10.07	0.60	0.57	-3.44
3,983.00	4.70	230.74	3,981.07	-14.94	-53.32	-14.19	1.48	1.48	0.07
4,078.00	4.58	223.63	4,075.76	-20.15	-58.95	-19.32	0.62	-0.13	-7.48
4,173.00	4.33	219.80	4,170.47	-25.65	-63.87	-24.75	0.41	-0.26	-4.03
4,268.00	3.44	236.20	4,265.25	-29.99	-68.53	-29.02	1.49	-0.94	17.26
4,363.00	3.06	242.24	4,360.10	-32.76	-73.14	-31.72	0.54	-0.40	6.36
4,457.00	2.72	235.99	4,453.98	-35.18	-77.21	-34.08	0.49	-0.36	-6.65
4,552.00	3.23	255.13	4,548.86	-37.12	-81.67	-35.97	1.17	0.54	20.15
4,647.00	3.99	266.82	4,643.67	-37.99	-87.55	-36.75	1.11	0.80	12.31
4,742.00	3.59	266.51	4,738.46	-38.36	-93.82	-37.03	0.42	-0.42	-0.33
4,837.00	3.43	265.85	4,833.28	-38.74	-99.63	-37.33	0.17	-0.17	-0.69
4,932.00	3.32	266.23	4,928.12	-39.13	-105.21	-37.64	0.12	-0.12	0.40
5,027.00	3.14	265.62	5,022.97	-39.51	-110.55	-37.94	0.19	-0.19	-0.64

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Com	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,122.00	2.78	264.94	5,117.84	-39.91	-115.43	-38.28	0.38	-0.38	-0.72
5,217.00	2.60	260.39	5,212.73	-40.48	-119.85	-38.78	0.29	-0.19	-4.79
5,311.00	2.49	256.48	5,306.64	-41.31	-123.94	-39.55	0.22	-0.12	-4.16
5,406.00	1.41	255.33	5,401.58	-42.09	-127.08	-40.29	1.14	-1.14	-1.21
5,501.00	0.30	266.34	5,496.57	-42.40	-128.46	-40.58	1.18	-1.17	11.59
5,596.00	0.44	241.73	5,591.57	-42.59	-129.03	-40.76	0.22	0.15	-25.91
5,690.00	0.37	236.53	5,685.57	-42.93	-129.60	-41.09	0.08	-0.07	-5.53
5,785.00	0.35	232.62	5,780.57	-43.27	-130.08	-41.43	0.03	-0.02	-4.12
5,880.00	0.39	220.68	5,875.56	-43.69	-130.53	-41.84	0.09	0.04	-12.57
5,975.00	0.30	223.26	5,970.56	-44.12	-130.91	-42.26	0.10	-0.09	2.72
6,044.00	0.24	204.19	6,039.56	-44.38	-131.09	-42.53	0.16	-0.09	-27.64
6,164.00	0.45	289.28	6,159.56	-44.46	-131.64	-42.59	0.41	0.18	70.91
6,258.00	0.55	280.00	6,253.56	-44.26	-132.43	-42.38	0.14	0.11	-9.87
6,353.00	0.74	283.70	6,348.55	-44.03	-133.48	-42.14	0.20	0.20	3.89
6,448.00	0.64	301.08	6,443.54	-43.61	-134.53	-41.71	0.24	-0.11	18.29
6,543.00	0.78	297.67	6,538.54	-43.04	-135.55	-41.12	0.15	0.15	-3.59
6,638.00	0.92	304.95	6,633.53	-42.30	-136.75	-40.36	0.19	0.15	7.66
6,733.00	1.04	293.19	6,728.51	-41.52	-138.17	-39.57	0.25	0.13	-12.38
6,828.00	1.07	298.42	6,823.50	-40.76	-139.74	-38.78	0.11	0.03	5.51
6,923.00	1.30	287.92	6,918.48	-40.01	-141.55	-38.00	0.33	0.24	-11.05
7,017.00	1.24	285.97	7,012.45	-39.40	-143.54	-37.37	0.08	-0.06	-2.07
7,112.00	1.59	210.35	7,107.43	-40.26	-145.19	-38.20	1.85	0.37	-79.60
7,207.00	1.58	202.46	7,202.40	-42.60	-146.36	-40.53	0.23	-0.01	-8.31
7,302.00	0.94	154.30	7,297.37	-44.52	-146.52	-42.44	1.24	-0.67	-50.69
7,397.00	0.86	137.18	7,392.36	-45.74	-145.70	-43.68	0.29	-0.08	-18.02
7,492.00	1.27	111.49	7,487.35	-46.65	-144.24	-44.61	0.65	0.43	-27.04
7,587.00	1.06	104.59	7,582.33	-47.26	-142.41	-45.24	0.27	-0.22	-7.26
7,681.00	1.09	99.36	7,676.31	-47.62	-140.68	-45.63	0.11	0.03	-5.56
7,776.00	1.19	104.39	7,771.29	-48.01	-138.83	-46.05	0.15	0.11	5.29
7,871.00	1.16	102.09	7,866.27	-48.46	-136.94	-46.52	0.06	-0.03	-2.42
7,966.00	1.21	84.21	7,961.25	-48.56	-135.00	-46.65	0.39	0.05	-18.82
8,061.00	0.94	82.45	8,056.23	-48.36	-133.23	-46.47	0.29	-0.28	-1.85
8,156.00	1.16	88.24	8,151.22	-48.22	-131.50	-46.36	0.26	0.23	6.09
8,250.00	1.14	90.86	8,245.20	-48.21	-129.61	-46.37	0.06	-0.02	2.79
8,345.00	1.11	87.50	8,340.18	-48.18	-127.75	-46.37	0.08	-0.03	-3.54
8,439.00	0.99	105.61	8,434.17	-48.36	-126.05	-46.58	0.37	-0.13	19.27
8,534.00	0.80	129.53	8,529.15	-49.01	-124.75	-47.24	0.44	-0.20	25.18
8,628.00	0.73	194.52	8,623.15	-50.00	-124.40	-48.24	0.88	-0.07	69.14
8,723.00	1.31	210.81	8,718.13	-51.52	-125.10	-49.75	0.68	0.61	17.15
8,817.00	1.96	217.57	8,812.09	-53.72	-126.63	-51.92	0.72	0.69	7.19
8,911.00	2.26	224.51	8,906.03	-56.31	-128.91	-54.49	0.42	0.32	7.38
9,006.00	1.99	236.14	9,000.97	-58.57	-131.60	-56.70	0.53	-0.28	12.24
9,114.00	1.75	228.62	9,108.91	-60.70	-134.39	-58.80	0.32	-0.22	-6.96

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Com	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,193.00	0.51	45.59	9,187.90	-61.26	-135.05	-59.34	2.86	-1.57	224.01	
9,287.00	0.77	43.38	9,281.89	-60.50	-134.31	-58.60	0.28	0.28	-2.35	
9,380.00	0.50	30.72	9,374.89	-59.70	-133.68	-57.80	0.33	-0.29	-13.61	
9,474.00	0.49	12.58	9,468.88	-58.96	-133.38	-57.06	0.17	-0.01	-19.30	
9,568.00	0.20	7.93	9,562.88	-58.40	-133.27	-56.51	0.31	-0.31	-4.95	
9,663.00	0.30	9.03	9,657.88	-57.99	-133.21	-56.10	0.11	0.11	1.16	
9,757.00	0.59	46.59	9,751.88	-57.42	-132.82	-55.53	0.42	0.31	39.96	
9,851.00	10.12	14.36	9,845.36	-49.06	-130.41	-47.21	10.24	10.14	-34.29	
9,945.00	20.95	8.78	9,935.80	-24.38	-125.78	-22.60	11.62	11.52	-5.94	
10,039.00	28.91	8.82	10,020.97	14.74	-119.73	16.44	8.47	8.47	0.04	
10,133.00	40.15	5.67	10,098.29	67.53	-113.23	69.12	12.10	11.96	-3.35	
10,228.00	50.31	4.52	10,165.11	134.62	-107.30	136.12	10.73	10.69	-1.21	
10,322.00	58.45	5.49	10,219.81	210.67	-100.61	212.07	8.70	8.66	1.03	
10,416.00	63.98	4.81	10,265.06	292.69	-93.23	293.98	5.92	5.88	-0.72	
10,511.00	68.49	3.72	10,303.33	379.37	-86.78	380.56	4.86	4.75	-1.15	
10,605.00	76.50	358.85	10,331.60	468.90	-84.86	470.05	9.85	8.52	-5.18	
10,700.00	84.39	358.70	10,347.36	562.48	-86.86	563.65	8.31	8.31	-0.16	
10,794.00	87.90	358.81	10,353.68	656.23	-88.90	657.42	3.74	3.73	0.12	
10,889.00	90.17	359.11	10,355.28	751.20	-90.62	752.40	2.41	2.39	0.32	
10,983.00	89.36	0.76	10,355.66	845.19	-90.73	846.39	1.96	-0.86	1.76	
11,077.00	90.81	2.13	10,355.52	939.16	-88.36	940.31	2.12	1.54	1.46	
11,131.00	92.25	2.79	10,354.08	993.09	-86.04	994.20	2.93	2.67	1.22	
11,221.00	92.05	2.14	10,350.70	1,082.94	-82.17	1,083.99	0.76	-0.22	-0.72	
11,311.00	88.32	2.74	10,350.41	1,172.84	-78.34	1,173.83	4.20	-4.14	0.67	
11,402.00	88.45	2.72	10,352.98	1,263.70	-74.01	1,264.62	0.14	0.14	-0.02	
11,494.00	89.40	2.78	10,354.70	1,355.58	-69.60	1,356.43	1.03	1.03	0.07	
11,585.00	90.57	2.10	10,354.73	1,446.49	-65.72	1,447.28	1.49	1.29	-0.75	
11,678.00	90.34	2.51	10,353.99	1,539.42	-61.98	1,540.14	0.51	-0.25	0.44	
11,770.00	89.63	359.89	10,354.01	1,631.39	-60.06	1,632.07	2.95	-0.77	-2.85	
11,862.00	89.13	357.25	10,355.01	1,723.34	-62.35	1,724.05	2.92	-0.54	-2.87	
11,955.00	90.71	356.86	10,355.14	1,816.22	-67.13	1,816.99	1.75	1.70	-0.42	
12,049.00	87.48	357.83	10,356.62	1,910.09	-71.48	1,910.91	3.59	-3.44	1.03	
12,144.00	87.62	357.80	10,360.69	2,004.94	-75.10	2,005.80	0.15	0.15	-0.03	
12,239.00	90.47	357.64	10,362.27	2,099.84	-78.88	2,100.74	3.00	3.00	-0.17	
12,333.00	90.40	356.80	10,361.55	2,193.72	-83.44	2,194.68	0.90	-0.07	-0.89	
12,427.00	89.76	355.87	10,361.42	2,287.53	-89.45	2,288.57	1.20	-0.68	-0.99	
12,522.00	90.74	355.21	10,361.01	2,382.24	-96.83	2,383.37	1.24	1.03	-0.69	
12,617.00	89.66	355.56	10,360.68	2,476.93	-104.48	2,478.16	1.20	-1.14	0.37	
12,711.00	90.37	355.04	10,360.65	2,570.61	-112.18	2,571.94	0.94	0.76	-0.55	
12,806.00	90.60	355.01	10,359.85	2,665.25	-120.42	2,666.69	0.24	0.24	-0.03	
12,900.00	88.76	355.43	10,360.37	2,758.92	-128.25	2,760.46	2.01	-1.96	0.45	
12,994.00	88.19	357.06	10,362.88	2,852.68	-134.40	2,854.30	1.84	-0.61	1.73	
13,089.00	89.70	357.81	10,364.62	2,947.57	-138.65	2,949.23	1.77	1.59	0.79	

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Corn	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,183.00	90.30	359.62	10,364.62	3,041.54	-140.76	3,043.22	2.03	0.64	1.93
13,277.00	89.80	358.63	10,364.54	3,135.53	-142.20	3,137.22	1.18	-0.53	-1.05
13,372.00	89.16	357.60	10,365.40	3,230.47	-145.32	3,232.20	1.28	-0.67	-1.08
13,466.00	89.90	358.37	10,366.18	3,324.41	-148.63	3,326.17	1.14	0.79	0.82
13,561.00	91.84	1.24	10,364.73	3,419.38	-148.95	3,421.14	3.65	2.04	3.02
13,655.00	90.40	4.99	10,362.90	3,513.20	-143.84	3,514.89	4.27	-1.53	3.99
13,749.00	89.97	4.05	10,362.59	3,606.91	-136.44	3,608.48	1.10	-0.46	-1.00
13,843.00	93.29	4.35	10,359.92	3,700.61	-129.56	3,702.07	3.55	3.53	0.32
13,938.00	93.76	4.94	10,354.08	3,795.11	-121.88	3,796.46	0.79	0.49	0.62
14,033.00	92.96	4.06	10,348.51	3,889.66	-114.44	3,890.89	1.25	-0.84	-0.93
14,128.00	89.56	3.00	10,346.42	3,984.44	-108.59	3,985.58	3.75	-3.58	-1.12
14,223.00	89.03	0.92	10,347.59	4,079.37	-105.34	4,080.45	2.26	-0.56	-2.19
14,318.00	92.48	1.38	10,346.34	4,174.33	-103.44	4,175.37	3.66	3.63	0.48
14,413.00	89.23	3.16	10,344.92	4,269.23	-99.67	4,270.21	3.90	-3.42	1.87
14,508.00	90.74	2.91	10,344.95	4,364.09	-94.64	4,364.99	1.61	1.59	-0.26
14,603.00	88.29	1.44	10,345.75	4,459.01	-91.04	4,459.85	3.01	-2.58	-1.55
14,697.00	90.84	1.92	10,346.46	4,552.96	-88.28	4,553.75	2.76	2.71	0.51
14,792.00	91.51	1.67	10,344.52	4,647.89	-85.31	4,648.63	0.75	0.71	-0.26
14,887.00	88.96	0.42	10,344.13	4,742.86	-83.58	4,743.57	2.99	-2.68	-1.32
14,982.00	89.13	0.83	10,345.71	4,837.84	-82.54	4,838.53	0.47	0.18	0.43
15,076.00	88.66	0.92	10,347.52	4,931.82	-81.11	4,932.47	0.51	-0.50	0.10
15,170.00	88.42	0.32	10,349.92	5,025.78	-80.09	5,026.41	0.69	-0.26	-0.64
15,265.00	88.22	0.77	10,352.70	5,120.73	-79.19	5,121.34	0.52	-0.21	0.47
15,360.00	89.19	0.13	10,354.85	5,215.71	-78.44	5,216.29	1.22	1.02	-0.67
15,454.00	89.80	358.73	10,355.68	5,309.69	-79.37	5,310.29	1.62	0.65	-1.49
15,549.00	91.41	356.36	10,354.67	5,404.59	-83.44	5,405.23	3.02	1.69	-2.49
15,643.00	89.60	357.47	10,353.85	5,498.45	-88.50	5,499.15	2.26	-1.93	1.18
15,738.00	92.35	356.90	10,352.23	5,593.31	-93.17	5,594.07	2.96	2.89	-0.60
15,832.00	88.66	355.11	10,351.40	5,687.06	-99.71	5,687.90	4.36	-3.93	-1.90
15,927.00	89.23	354.27	10,353.15	5,781.63	-108.50	5,782.59	1.07	0.60	-0.88
16,021.00	91.81	354.45	10,352.30	5,875.16	-117.74	5,876.24	2.75	2.74	0.19
16,116.00	89.09	355.77	10,351.55	5,969.81	-125.84	5,970.99	3.18	-2.86	1.39
16,210.00	88.42	356.34	10,353.59	6,063.56	-132.30	6,064.82	0.94	-0.71	0.61
16,305.00	91.31	356.99	10,353.82	6,158.39	-137.83	6,159.72	3.12	3.04	0.68
16,399.00	88.99	359.14	10,353.57	6,252.32	-141.00	6,253.69	3.36	-2.47	2.29
16,493.00	88.25	359.60	10,355.83	6,346.29	-142.03	6,347.66	0.93	-0.79	0.49
16,588.00	88.89	0.78	10,358.21	6,441.26	-141.72	6,442.62	1.41	0.67	1.24
16,683.00	90.17	1.34	10,358.98	6,536.23	-139.96	6,537.56	1.47	1.35	0.59
16,777.00	89.73	0.74	10,359.07	6,630.22	-138.26	6,631.51	0.79	-0.47	-0.64
16,872.00	91.31	0.47	10,358.20	6,725.21	-137.25	6,726.47	1.69	1.66	-0.28
16,967.00	90.64	0.15	10,356.59	6,820.19	-136.74	6,821.44	0.78	-0.71	-0.34
17,062.00	90.34	0.10	10,355.78	6,915.19	-136.53	6,916.43	0.32	-0.32	-0.05
17,157.00	88.99	0.18	10,356.33	7,010.18	-136.30	7,011.41	1.42	-1.42	0.08
17,252.00	90.00	0.95	10,357.17	7,105.17	-135.36	7,106.38	1.34	1.06	0.81

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Com	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,347.00	90.40	3.05	10,356.84	7,200.11	-132.05	7,201.25	2.25	0.42	2.21
17,442.00	91.84	1.97	10,354.98	7,294.99	-127.89	7,296.07	1.89	1.52	-1.14
17,537.00	88.16	1.02	10,354.98	7,389.94	-125.41	7,390.98	4.00	-3.87	-1.00
17,631.00	88.89	1.39	10,357.40	7,483.89	-123.43	7,484.89	0.87	0.78	0.39
17,726.00	90.70	1.21	10,357.74	7,578.86	-121.28	7,579.82	1.91	1.91	-0.19
17,821.00	91.54	359.91	10,355.88	7,673.84	-120.35	7,674.77	1.63	0.88	-1.37
17,916.00	91.17	359.95	10,353.64	7,768.81	-120.47	7,769.74	0.39	-0.39	0.04
18,011.00	91.94	0.52	10,351.06	7,863.77	-120.08	7,864.69	1.01	0.81	0.60
18,106.00	92.42	1.97	10,347.44	7,958.68	-118.01	7,959.55	1.61	0.51	1.53
18,201.00	89.46	2.83	10,345.89	8,053.57	-114.04	8,054.38	3.24	-3.12	0.91
18,296.00	89.23	1.91	10,346.97	8,148.48	-110.11	8,149.23	1.00	-0.24	-0.97
18,390.00	89.26	1.80	10,348.21	8,242.43	-107.07	8,243.12	0.12	0.03	-0.12
18,485.00	88.86	1.42	10,349.77	8,337.38	-104.40	8,338.02	0.58	-0.42	-0.40
18,580.00	88.99	0.63	10,351.55	8,432.34	-102.70	8,432.95	0.84	0.14	-0.83
18,676.00	89.26	1.01	10,353.02	8,528.32	-101.32	8,528.90	0.49	0.28	0.40
18,771.00	88.99	359.50	10,354.47	8,623.31	-100.90	8,623.87	1.61	-0.28	-1.59
18,866.00	90.70	0.75	10,354.73	8,718.30	-100.69	8,718.85	2.23	1.80	1.32
18,961.00	91.58	0.61	10,352.84	8,813.27	-99.57	8,813.80	0.94	0.93	-0.15
19,057.00	91.11	0.03	10,350.58	8,909.25	-99.03	8,909.76	0.78	-0.49	-0.60
19,152.00	89.13	359.73	10,350.38	9,004.24	-99.23	9,004.74	2.11	-2.08	-0.32
19,247.00	88.96	359.43	10,351.97	9,099.22	-99.93	9,099.73	0.36	-0.18	-0.32
19,342.00	88.93	359.03	10,353.72	9,194.20	-101.20	9,194.71	0.42	-0.03	-0.42
19,436.00	89.13	358.59	10,355.31	9,288.17	-103.16	9,288.70	0.51	0.21	-0.47
19,531.00	88.86	357.91	10,356.97	9,383.11	-106.06	9,383.67	0.77	-0.28	-0.72
19,626.00	89.06	357.78	10,358.70	9,478.02	-109.63	9,478.63	0.25	0.21	-0.14
19,721.00	89.66	358.14	10,359.76	9,572.96	-113.01	9,573.60	0.74	0.63	0.38
19,816.00	90.27	358.21	10,359.82	9,667.91	-116.03	9,668.58	0.65	0.64	0.07
19,911.00	89.93	358.37	10,359.65	9,762.87	-118.87	9,763.57	0.40	-0.36	0.17
20,006.00	90.27	357.23	10,359.48	9,857.79	-122.52	9,858.54	1.25	0.36	-1.20
20,101.00	89.70	356.41	10,359.51	9,952.65	-127.79	9,953.46	1.05	-0.60	-0.86
20,106.85	89.64	356.35	10,359.54	9,958.48	-128.16	9,959.30	1.50	-1.06	-1.06
BHL[Belloq#231H]									
20,196.00	88.69	355.40	10,360.84	10,047.39	-134.57	10,048.29	1.50	-1.06	-1.06
20,284.00	89.29	355.52	10,362.40	10,135.10	-141.53	10,136.09	0.70	0.68	0.14
FINAL MWD Survey (20284.00' MD)									
20,350.00	89.29	355.52	10,363.21	10,200.89	-146.69	10,201.95	0.00	0.00	0.00
FINAL Proj. to Bit (20350.00' MD) - BHL.Final[Belloq#231H]									

Scientific Drilling, Intl
Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 231H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Site:	Belloq 11-2 Fed State Com	MD Reference:	KB = 31.5 @ 3460.50usft (H&P 502)
Well:	231H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
20,284.00	10,362.40	10,135.10	-141.53	FINAL MWD Survey (20284.00' MD)
20,350.00	10,363.21	10,200.89	-146.69	FINAL Proj. to Bit (20350.00' MD)

Checked By: _____	Approved By: _____	Date: _____
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