

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

Form C-101  
August 1, 2011

Permit 381067

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102		2. OGRID Number 6137
4. Property Code 333760		3. API Number 30-015-56177
5. Property Name MIMOSA 18 16 STATE COM		6. Well No. 224H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	18	20S	30E	3	1612	S	805	W	Eddy

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	16	20S	30E	P	720	S	20	E	Eddy

**9. Pool Information**

PARKWAY;BONE SPRING	49622
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3317
16. Multiple N	17. Proposed Depth 23983	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/11/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	329	277	0
Int1	12.25	10.75	45.5	1705	192	0
Int2	9.875	8.625	32	3754	194	0
Prod	7.875	5.5	20	23983	2245	5904

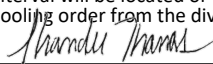

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	
Blind	5000	5000	
Double Ram	5000	5000	
Annular	5000	5000	
Blind	5000	5000	
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Jeff Walla Title: Supervisor Land	Approved By: Matthew Gomez Title:
Email Address: Jeff.Walla@dmv.com Date: 1/10/2025	Approved Date: 2/13/2025 Expiration Date: 2/13/2027
Phone: 575-748-9925	Conditions of Approval Attached

<b>C-102</b> Submit Electronically Via OCD Permitting		State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>				Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled		Revised July 9, 2024						
<b>WELL LOCATION INFORMATION</b>														
API Number <b>30-015-56177</b>		Pool Code 49622		Pool Name PARKWAY; BONE SPRING										
Property Code <b>333760</b>		Property Name MIMOSA 18-16 STATE COM				Well Number 224H								
OGRID No. 6137		Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.				Ground Level Elevation 3317.07'								
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal						Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal								
<b>Surface Location</b>														
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County					
N/A	18	20-S	30-E	3	1612/S	805/W	32.5705452°	-104.0172975°	EDDY					
<b>Bottom Hole Location</b>														
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County					
P	16	20-S	30-E	N/A	720/S	20/E	32.5680277°	-103.9686243°	EDDY					
Dedicated Acres 958.46		Infill or Defining Well INFILL		Defining Well API 3001554891		Overlapping Spacing Unit (Y/N) NO		Consolidation Code C						
Order Numbers.						Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
<b>Kick Off Point (KOP)</b>														
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County					
N/A	18	20-S	30-E	4	721/S	50/W	32.56800376	-104.01983648	EDDY					
<b>First Take Point (FTP)</b>														
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County					
N/A	18	20-S	30-E	4	720/S	100/W	32.5680967°	-104.0195923°	EDDY					
<b>Last Take Point (LTP)</b>														
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County					
P	16	20-S	30-E	N/A	720/S	100/E	32.5680281°	-103.9688840°	EDDY					
Unitized Area: <input type="checkbox"/>		Area of Uniform Interest: <input type="checkbox"/>		Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical				Ground Floor Elevation:						
<b>OPERATOR CERTIFICATIONS:</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. Signature  Date 12/19/24 SHANDEE THOMAS Printed Name SHANDEE.THOMAS@DVN.COM E-mail Address					<b>SURVEYOR NOTES:</b> 1. BEARINGS SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM 3001, WITH CONVERGENCE ANGLE OF -0°09'37.47" AND BASED ON CONTROL POINT CP FITZ BOOSTER AT N:556917.441 E:633268.606. ORTHO:3349.52. DETERMINED BY AN OPUS SOLUTION ON JUNE 5TH, 2020. 2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCES IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000237768 3. ELEVATIONS SHOWN OR LISTED ARE EXISTING GROUND ELEVATIONS. 4. KARST AREAS, 1/4 & 1/2 MILE POTASH BUFFERS, LEASE AREAS AND DRILL ISLANDS, IF SHOWN, WERE PROVIDED BY DEVON ENERGY AND NOT LOCATED ON THE GROUND AS A PART OF THIS SURVEY, LOCATIONS ARE APPROXIMATE.					<b>SURVEYOR CERTIFICATIONS:</b> 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.  <div style="text-align: center;">  </div> Signature and Seal of Professional Surveyor: 20250 John E. Allen 11/13/2024 Certificate No. Name Date of Survey				
Page: 1 of 2		Drawn By: EDH		Checked By: JEA		Date Drawn: 10/29/2024		Revision: R0						

Note: 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.

**MIMOSA 18-16 STATE COM 224H****SURFACE HOLE LOCATION****1612' FSL - 805' FWL****SEC. 18, T20S, R30E**

EL: 3318.10'

N: 571439.57

E: 638693.54

LAT. 32.5705452°

LON. -104.0172975°

**KICK OFF POINT**

721' FSL - 50' FWL

N: 570547

E: 637939

LAT: 32.56800376

LON: -104.01983648

**FTP (PPP 1)**  
**720 FSL - 100' FWL**  
**SEC. 18, T20S, R30E**  
 N: 570546.73  
 E: 637989.25  
 LAT. 32.5680967°  
 LON. -104.0195923°

**LTP**  
**720' FSL - 100' FEL**  
**SEC. 16, T20S, R30E**  
 N: 570571.54  
 E: 653610.73  
 LAT. 32.5680281°  
 LON. -103.9688840°

**PPP 2**  
**720' FSL - 2602' FWL**  
**SEC. 18, T20S, R30E**  
 N: 570554.91  
 E: 643137.61  
 LAT. 32.5680764°  
 LON. -104.0028803°

**BHL**  
**720' FSL - 20' FEL**  
**SEC. 16, T20S, R30E**  
 N: 570571.67  
 E: 653690.72  
 LAT. 32.5680277°  
 LON. -103.9686243°

**LEGEND**

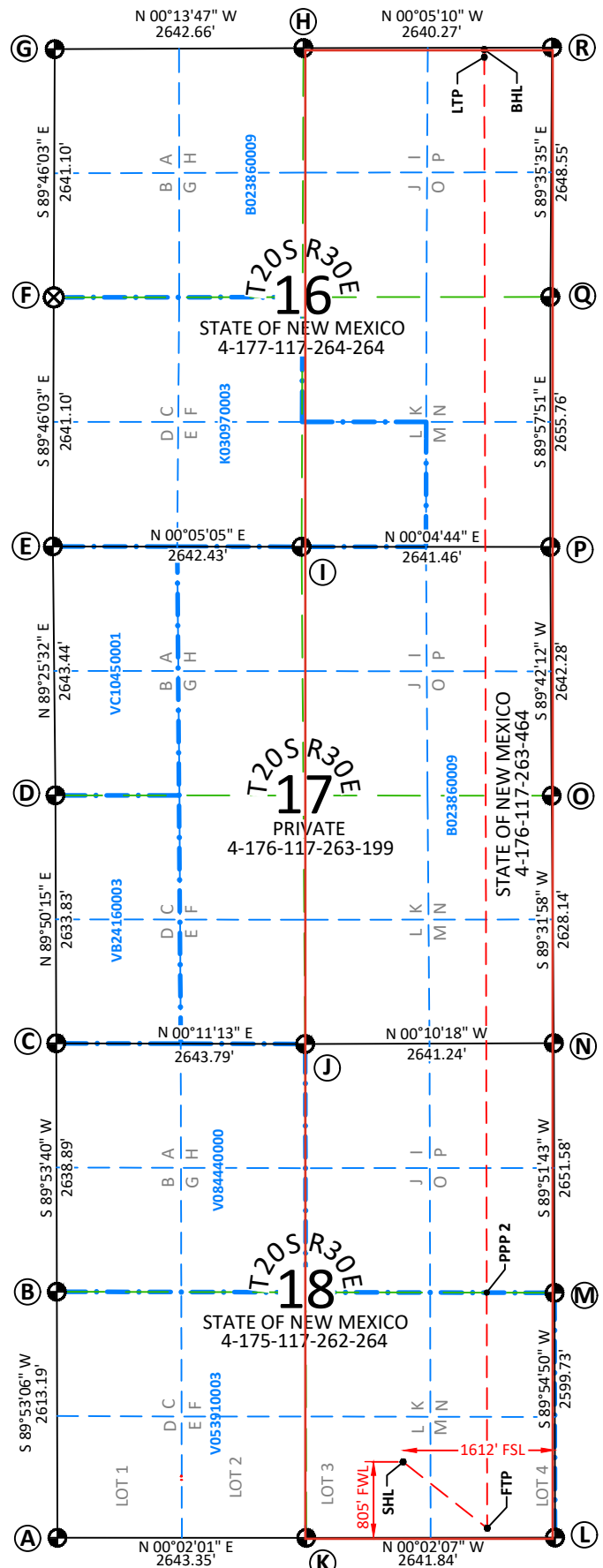
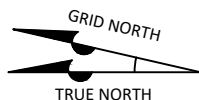
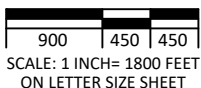
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- WELL PATH
- 1/4 MILE BUFFER
- 1/2 MILE BUFFER
- LEASE LINE
- LEASE ID NUMBER
- FOUND USGLO
- BRASS CAP '1916'
- CALC'D CORNER

**SECTION CORNER CALLOUTS**

A	N: 575110.68	E: 637889.65
B	N: 575115.93	E: 640502.22
C	N: 575120.79	E: 643140.48
D	N: 575128.27	E: 645773.67
E	N: 575154.77	E: 648416.35
F	N: 575144.03	E: 651061.32
G	N: 575133.32	E: 653697.23
H	N: 572491.31	E: 653707.82
I	N: 572512.97	E: 648412.45
J	N: 572477.65	E: 643131.85
K	N: 572467.96	E: 637888.10
L	N: 569826.75	E: 637889.72
M	N: 569830.66	E: 640488.83
N	N: 569837.04	E: 643139.77
O	N: 569858.47	E: 645767.20
P	N: 569872.14	E: 648408.82
Q	N: 569870.48	E: 651063.94
R	N: 569851.67	E: 653711.79

**SURVEYOR NOTES:**

- BEARINGS SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM 3001, WITH A CONVERGENCE ANGLE OF -0°09'37.47" AND BASED ON CONTROL POINT CP FITZ BOOSTER AT N:556917.441 E:633268.606. ORTHO: 3349.52. DETERMINED BY AN OPUS SOLUTION ON JUNE 5TH, 2020.
- DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCES IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000237768
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Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

Form APD Comments

Permit 381067

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102		API Number: 30-015-56177
		Well: MIMOSA 18 16 STATE COM #224H
Created By	Comment	Comment Date
tshandee	Total dedicated acreage 958.46 ac. See attached C-102.	1/9/2025

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Form APD Conditions

Permit 381067

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102	API Number: 30-015-56177
	Well: MIMOSA 18 16 STATE COM #224H

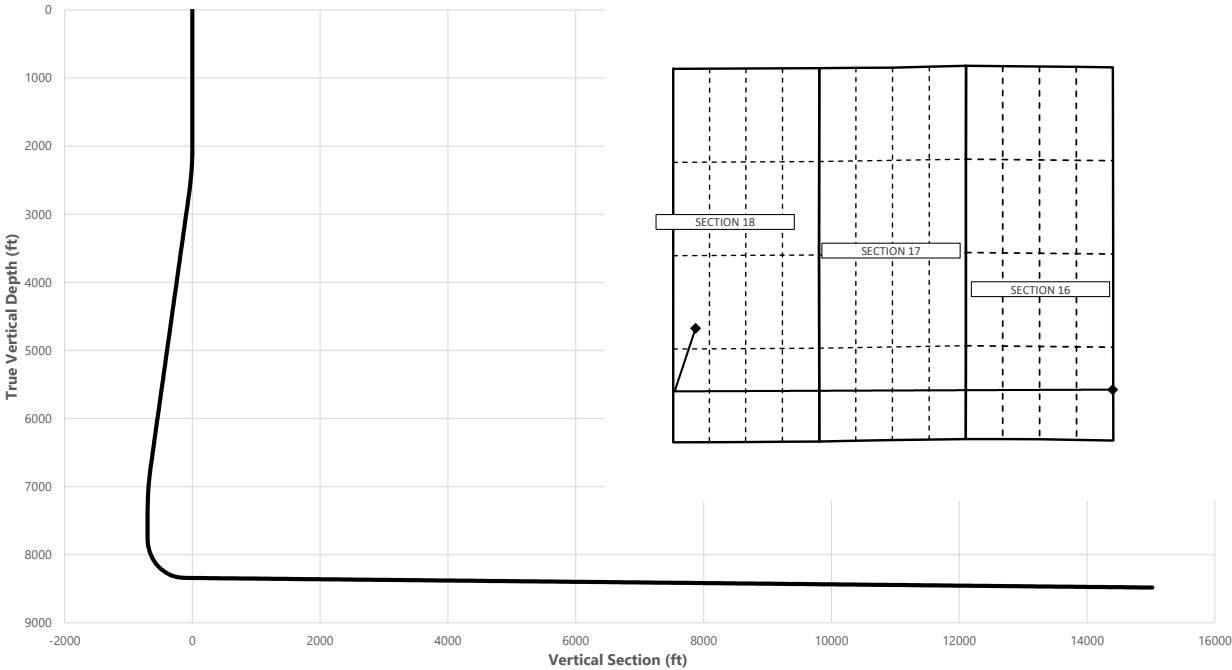
OCD Reviewer	Condition
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.
matthew.gomez	Brine water shall not be used in the Capitan Reef. Only fresh water shall be utilized until the Capitan Reef is cased and cemented.
matthew.gomez	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.
matthew.gomez	Must comply with all R-111-Q requirements.
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.



Well: MIMOSA 18-16 STATE COM 224H  
County: Eddy  
Wellbore: Permit Plan  
Design: Permit Plan #1

Geodetic System: US State Plane 1983  
Datum: North American Datum 1927  
Ellipsoid: Clarke 1866  
Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	220.20	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2700.00	14.00	220.20	2693.06	-65.00	-54.93	-51.08	2.00	Hold Tangent
6827.36	14.00	220.20	6697.82	-827.65	-699.42	-650.43	0.00	Drop to Vertical
7527.36	0.00	220.20	7390.87	-892.64	-754.34	-701.51	2.00	Hold Vertical
7903.56	0.00	89.91	7767.07	-892.64	-754.34	-701.51	0.00	KOP
8798.20	89.46	89.91	8340.00	-891.75	-186.74	-134.91	10.00	Landing Point
23982.80	89.46	89.91	8482.00	-867.90	14997.18	15022.27	0.00	BHL



Key Depths	MD	TVD
	(ft)	(ft)
Rustler	304.00	304.00
Salt	412.00	412.00
Base of Salt	1680.00	1680.00
Capitan Reef Top	2157.08	2157.00
Delaware	3741.89	3704.00
Cherry Canyon	4723.04	4656.00
Brushy Canyon	7397.45	7261.00
Bone Spring 1st	7544.49	7408.00
Bone Spring 2nd / Point of Penetrati	8376.35	8188.00
exit	23902.80	8481.27

SHL  
KOP  
Point of Penetration  
Exit  
BHL

MD	TVD	Lat	Long	Section Footages
(ft)	(ft)	(°)	(°)	
0.00	0.00	32.5705	-104.0174	1621' FSL, 805' FWL of Sec 18 in T20S, R30E
7903.56	7767.07	32.5680	-104.0198	721' FSL, 50' FWL of Sec 18 in T20S, R30E
8376.35	8188.00	32.5681	-104.0196	720' FSL, 100' FWL of Sec 18 in T20S, R30E
23902.80	8481.27	32.5680	-103.9689	720' FSL, 100' FEL of Sec 16 in T20S, R30E
23982.80	8482.00	32.5679	-103.9687	720' FSL, 20' FEL of Sec 16 in T20S, R30E

	Y	X	MD
KOP	570547	637939	7903.56

MIMOSA 18-16 STATE COM 224H



**Well:** MIMOSA 18-16 STATE COM 224H  
**County:** Eddy  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	220.20	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	220.20	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	220.20	300.00	0.00	0.00	0.00	0.00	
304.00	0.00	220.20	304.00	0.00	0.00	0.00	0.00	Rustler
400.00	0.00	220.20	400.00	0.00	0.00	0.00	0.00	
412.00	0.00	220.20	412.00	0.00	0.00	0.00	0.00	Salt
500.00	0.00	220.20	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	220.20	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	220.20	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	220.20	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	220.20	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	220.20	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	220.20	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	220.20	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	220.20	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	220.20	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	220.20	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	220.20	1600.00	0.00	0.00	0.00	0.00	
1680.00	0.00	220.20	1680.00	0.00	0.00	0.00	0.00	Base of Salt
1700.00	0.00	220.20	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	220.20	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	220.20	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	220.20	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	220.20	2099.98	-1.33	-1.13	-1.05	2.00	
2157.08	3.14	220.20	2157.00	-3.29	-2.78	-2.58	2.00	Capitan Reef Top
2200.00	4.00	220.20	2199.84	-5.33	-4.50	-4.19	2.00	
2300.00	6.00	220.20	2299.45	-11.99	-10.13	-9.42	2.00	
2400.00	8.00	220.20	2398.70	-21.29	-18.00	-16.73	2.00	
2500.00	10.00	220.20	2497.47	-33.24	-28.09	-26.12	2.00	
2600.00	12.00	220.20	2595.62	-47.82	-40.41	-37.58	2.00	
2700.00	14.00	220.20	2693.06	-65.00	-54.93	-51.08	2.00	Hold Tangent
2800.00	14.00	220.20	2790.08	-83.47	-70.54	-65.60	0.00	
2900.00	14.00	220.20	2887.11	-101.95	-86.16	-80.12	0.00	
3000.00	14.00	220.20	2984.14	-120.43	-101.77	-94.64	0.00	
3100.00	14.00	220.20	3081.17	-138.91	-117.39	-109.16	0.00	
3200.00	14.00	220.20	3178.20	-157.39	-133.00	-123.69	0.00	
3300.00	14.00	220.20	3275.23	-175.86	-148.62	-138.21	0.00	
3400.00	14.00	220.20	3372.26	-194.34	-164.23	-152.73	0.00	
3500.00	14.00	220.20	3469.29	-212.82	-179.85	-167.25	0.00	
3600.00	14.00	220.20	3566.32	-231.30	-195.46	-181.77	0.00	
3700.00	14.00	220.20	3663.35	-249.78	-211.08	-196.29	0.00	
3741.89	14.00	220.20	3704.00	-257.52	-217.62	-202.38	0.00	Delaware
3800.00	14.00	220.20	3760.38	-268.25	-226.69	-210.81	0.00	
3900.00	14.00	220.20	3857.41	-286.73	-242.31	-225.33	0.00	
4000.00	14.00	220.20	3954.44	-305.21	-257.92	-239.86	0.00	
4100.00	14.00	220.20	4051.47	-323.69	-273.54	-254.38	0.00	
4200.00	14.00	220.20	4148.50	-342.17	-289.15	-268.90	0.00	
4300.00	14.00	220.20	4245.53	-360.64	-304.77	-283.42	0.00	
4400.00	14.00	220.20	4342.56	-379.12	-320.38	-297.94	0.00	
4500.00	14.00	220.20	4439.59	-397.60	-336.00	-312.46	0.00	
4600.00	14.00	220.20	4536.62	-416.08	-351.61	-326.98	0.00	
4700.00	14.00	220.20	4633.65	-434.56	-367.23	-341.50	0.00	
4723.04	14.00	220.20	4656.00	-438.81	-370.82	-344.85	0.00	Cherry Canyon
4800.00	14.00	220.20	4730.68	-453.03	-382.84	-356.03	0.00	
4900.00	14.00	220.20	4827.71	-471.51	-398.46	-370.55	0.00	
5000.00	14.00	220.20	4924.74	-489.99	-414.07	-385.07	0.00	
5100.00	14.00	220.20	5021.77	-508.47	-429.69	-399.59	0.00	
5200.00	14.00	220.20	5118.79	-526.94	-445.30	-414.11	0.00	
5300.00	14.00	220.20	5215.82	-545.42	-460.92	-428.63	0.00	
5400.00	14.00	220.20	5312.85	-563.90	-476.53	-443.15	0.00	
5500.00	14.00	220.20	5409.88	-582.38	-492.15	-457.68	0.00	
5600.00	14.00	220.20	5506.91	-600.86	-507.76	-472.20	0.00	
5700.00	14.00	220.20	5603.94	-619.33	-523.38	-486.72	0.00	
5800.00	14.00	220.20	5700.97	-637.81	-538.99	-501.24	0.00	
5900.00	14.00	220.20	5798.00	-656.29	-554.60	-515.76	0.00	
6000.00	14.00	220.20	5895.03	-674.77	-570.22	-530.28	0.00	
6100.00	14.00	220.20	5992.06	-693.25	-585.83	-544.80	0.00	
6200.00	14.00	220.20	6089.09	-711.72	-601.45	-559.32	0.00	
6300.00	14.00	220.20	6186.12	-730.20	-617.06	-573.85	0.00	

MIMOSA 18-16 STATE COM 224H



**Well:** MIMOSA 18-16 STATE COM 224H  
**County:** Eddy  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	14.00	220.20	6283.15	-748.68	-632.68	-588.37	0.00	
6500.00	14.00	220.20	6380.18	-767.16	-648.29	-602.89	0.00	
6600.00	14.00	220.20	6477.21	-785.64	-663.91	-617.41	0.00	
6700.00	14.00	220.20	6574.24	-804.11	-679.52	-631.93	0.00	
6800.00	14.00	220.20	6671.27	-822.59	-695.14	-646.45	0.00	
6827.36	14.00	220.20	6697.82	-827.65	-699.42	-650.43	0.00	Drop to Vertical
6900.00	12.55	220.20	6768.51	-840.38	-710.18	-660.44	2.00	
7000.00	10.55	220.20	6866.48	-855.67	-723.10	-672.45	2.00	
7100.00	8.55	220.20	6965.09	-868.34	-733.80	-682.41	2.00	
7200.00	6.55	220.20	7064.22	-878.37	-742.28	-690.29	2.00	
7300.00	4.55	220.20	7163.75	-885.76	-748.52	-696.09	2.00	
7397.45	2.60	220.20	7261.00	-890.39	-752.44	-699.74	2.00	Brushy Canyon
7400.00	2.55	220.20	7263.55	-890.48	-752.51	-699.81	2.00	
7500.00	0.55	220.20	7363.51	-892.54	-754.26	-701.43	2.00	
7527.36	0.00	220.20	7390.87	-892.64	-754.34	-701.51	2.00	Hold Vertical
7544.49	0.00	89.91	7408.00	-892.64	-754.34	-701.51	0.00	Bone Spring 1st
7600.00	0.00	89.91	7463.51	-892.64	-754.34	-701.51	0.00	
7700.00	0.00	89.91	7563.51	-892.64	-754.34	-701.51	0.00	
7800.00	0.00	89.91	7663.51	-892.64	-754.34	-701.51	0.00	
7900.00	0.00	89.91	7763.51	-892.64	-754.34	-701.51	0.00	
7903.56	0.00	89.91	7767.07	-892.64	-754.34	-701.51	0.00	KOP
8000.00	9.64	89.91	7863.06	-892.63	-746.24	-693.42	10.00	
8100.00	19.64	89.91	7959.68	-892.59	-720.99	-668.22	10.00	
8200.00	29.64	89.91	8050.46	-892.52	-679.35	-626.65	10.00	
8300.00	39.64	89.91	8132.63	-892.44	-622.57	-569.97	10.00	
8376.35	47.28	89.91	8188.00	-892.35	-570.10	-517.59	10.00	Bone Spring 2nd / Point of Penetration
8400.00	49.64	89.91	8203.68	-892.32	-552.39	-499.91	10.00	
8500.00	59.64	89.91	8261.48	-892.20	-470.94	-418.60	10.00	
8600.00	69.64	89.91	8304.25	-892.06	-380.69	-328.51	10.00	
8700.00	79.64	89.91	8330.69	-891.90	-284.38	-232.37	10.00	
8798.20	89.46	89.91	8340.00	-891.75	-186.74	-134.91	10.00	Landing Point
8800.00	89.46	89.91	8340.02	-891.75	-184.94	-133.11	0.00	
8900.00	89.46	89.91	8340.95	-891.59	-84.95	-33.29	0.00	
9000.00	89.46	89.91	8341.89	-891.43	15.05	66.53	0.00	
9100.00	89.46	89.91	8342.82	-891.28	115.04	166.35	0.00	
9200.00	89.46	89.91	8343.76	-891.12	215.04	266.16	0.00	
9300.00	89.46	89.91	8344.69	-890.96	315.04	365.98	0.00	
9400.00	89.46	89.91	8345.63	-890.80	415.03	465.80	0.00	
9500.00	89.46	89.91	8346.56	-890.65	515.03	565.62	0.00	
9600.00	89.46	89.91	8347.50	-890.49	615.02	665.44	0.00	
9700.00	89.46	89.91	8348.44	-890.33	715.02	765.26	0.00	
9800.00	89.46	89.91	8349.37	-890.18	815.01	865.08	0.00	
9900.00	89.46	89.91	8350.31	-890.02	915.01	964.90	0.00	
10000.00	89.46	89.91	8351.24	-889.86	1015.00	1064.72	0.00	
10100.00	89.46	89.91	8352.18	-889.70	1115.00	1164.54	0.00	
10200.00	89.46	89.91	8353.11	-889.55	1215.00	1264.36	0.00	
10300.00	89.46	89.91	8354.05	-889.39	1314.99	1364.18	0.00	
10400.00	89.46	89.91	8354.98	-889.23	1414.99	1464.00	0.00	
10500.00	89.46	89.91	8355.92	-889.08	1514.98	1563.82	0.00	
10600.00	89.46	89.91	8356.85	-888.92	1614.98	1663.64	0.00	
10700.00	89.46	89.91	8357.79	-888.76	1714.97	1763.46	0.00	
10800.00	89.46	89.91	8358.72	-888.60	1814.97	1863.28	0.00	
10900.00	89.46	89.91	8359.66	-888.45	1914.96	1963.09	0.00	
11000.00	89.46	89.91	8360.59	-888.29	2014.96	2062.91	0.00	
11100.00	89.46	89.91	8361.53	-888.13	2114.95	2162.73	0.00	
11200.00	89.46	89.91	8362.46	-887.98	2214.95	2262.55	0.00	
11300.00	89.46	89.91	8363.40	-887.82	2314.95	2362.37	0.00	
11400.00	89.46	89.91	8364.33	-887.66	2414.94	2462.19	0.00	
11500.00	89.46	89.91	8365.27	-887.50	2514.94	2562.01	0.00	
11600.00	89.46	89.91	8366.21	-887.35	2614.93	2661.83	0.00	
11700.00	89.46	89.91	8367.14	-887.19	2714.93	2761.65	0.00	
11800.00	89.46	89.91	8368.08	-887.03	2814.92	2861.47	0.00	
11900.00	89.46	89.91	8369.01	-886.87	2914.92	2961.29	0.00	
12000.00	89.46	89.91	8369.95	-886.72	3014.91	3061.11	0.00	
12100.00	89.46	89.91	8370.88	-886.56	3114.91	3160.93	0.00	
12200.00	89.46	89.91	8371.82	-886.40	3214.91	3260.75	0.00	
12300.00	89.46	89.91	8372.75	-886.25	3314.90	3360.57	0.00	
12400.00	89.46	89.91	8373.69	-886.09	3414.90	3460.39	0.00	
12500.00	89.46	89.91	8374.62	-885.93	3514.89	3560.20	0.00	
12600.00	89.46	89.91	8375.56	-885.77	3614.89	3660.02	0.00	



MIMOSA 18-16 STATE COM 224H



**Well:** MIMOSA 18-16 STATE COM 224H  
**County:** Eddy  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (")	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12700.00	89.46	89.91	8376.49	-885.62	3714.88	3759.84	0.00	
12800.00	89.46	89.91	8377.43	-885.46	3814.88	3859.66	0.00	
12900.00	89.46	89.91	8378.36	-885.30	3914.87	3959.48	0.00	
13000.00	89.46	89.91	8379.30	-885.15	4014.87	4059.30	0.00	
13100.00	89.46	89.91	8380.23	-884.99	4114.87	4159.12	0.00	
13200.00	89.46	89.91	8381.17	-884.83	4214.86	4258.94	0.00	
13300.00	89.46	89.91	8382.11	-884.67	4314.86	4358.76	0.00	
13400.00	89.46	89.91	8383.04	-884.52	4414.85	4458.58	0.00	
13500.00	89.46	89.91	8383.98	-884.36	4514.85	4558.40	0.00	
13600.00	89.46	89.91	8384.91	-884.20	4614.84	4658.22	0.00	
13700.00	89.46	89.91	8385.85	-884.04	4714.84	4758.04	0.00	
13800.00	89.46	89.91	8386.78	-883.89	4814.83	4857.86	0.00	
13900.00	89.46	89.91	8387.72	-883.73	4914.83	4957.68	0.00	
14000.00	89.46	89.91	8388.65	-883.57	5014.82	5057.50	0.00	
14100.00	89.46	89.91	8389.59	-883.42	5114.82	5157.32	0.00	
14200.00	89.46	89.91	8390.52	-883.26	5214.82	5257.13	0.00	
14300.00	89.46	89.91	8391.46	-883.10	5314.81	5356.95	0.00	
14400.00	89.46	89.91	8392.39	-882.94	5414.81	5456.77	0.00	
14500.00	89.46	89.91	8393.33	-882.79	5514.80	5556.59	0.00	
14600.00	89.46	89.91	8394.26	-882.63	5614.80	5656.41	0.00	
14700.00	89.46	89.91	8395.20	-882.47	5714.79	5756.23	0.00	
14800.00	89.46	89.91	8396.13	-882.32	5814.79	5856.05	0.00	
14900.00	89.46	89.91	8397.07	-882.16	5914.78	5955.87	0.00	
15000.00	89.46	89.91	8398.01	-882.00	6014.78	6055.69	0.00	
15100.00	89.46	89.91	8398.94	-881.84	6114.78	6155.51	0.00	
15200.00	89.46	89.91	8399.88	-881.69	6214.77	6255.33	0.00	
15300.00	89.46	89.91	8400.81	-881.53	6314.77	6355.15	0.00	
15400.00	89.46	89.91	8401.75	-881.37	6414.76	6454.97	0.00	
15500.00	89.46	89.91	8402.68	-881.22	6514.76	6554.79	0.00	
15600.00	89.46	89.91	8403.62	-881.06	6614.75	6654.61	0.00	
15700.00	89.46	89.91	8404.55	-880.90	6714.75	6754.43	0.00	
15800.00	89.46	89.91	8405.49	-880.74	6814.74	6854.24	0.00	
15900.00	89.46	89.91	8406.42	-880.59	6914.74	6954.06	0.00	
16000.00	89.46	89.91	8407.36	-880.43	7014.73	7053.88	0.00	
16100.00	89.46	89.91	8408.29	-880.27	7114.73	7153.70	0.00	
16200.00	89.46	89.91	8409.23	-880.11	7214.73	7253.52	0.00	
16300.00	89.46	89.91	8410.16	-879.96	7314.72	7353.34	0.00	
16400.00	89.46	89.91	8411.10	-879.80	7414.72	7453.16	0.00	
16500.00	89.46	89.91	8412.03	-879.64	7514.71	7552.98	0.00	
16600.00	89.46	89.91	8412.97	-879.49	7614.71	7652.80	0.00	
16700.00	89.46	89.91	8413.91	-879.33	7714.70	7752.62	0.00	
16800.00	89.46	89.91	8414.84	-879.17	7814.70	7852.44	0.00	
16900.00	89.46	89.91	8415.78	-879.01	7914.69	7952.26	0.00	
17000.00	89.46	89.91	8416.71	-878.86	8014.69	8052.08	0.00	
17100.00	89.46	89.91	8417.65	-878.70	8114.69	8151.90	0.00	
17200.00	89.46	89.91	8418.58	-878.54	8214.68	8251.72	0.00	
17300.00	89.46	89.91	8419.52	-878.39	8314.68	8351.54	0.00	
17400.00	89.46	89.91	8420.45	-878.23	8414.67	8451.36	0.00	
17500.00	89.46	89.91	8421.39	-878.07	8514.67	8551.17	0.00	
17600.00	89.46	89.91	8422.32	-877.91	8614.66	8650.99	0.00	
17700.00	89.46	89.91	8423.26	-877.76	8714.66	8750.81	0.00	
17800.00	89.46	89.91	8424.19	-877.60	8814.65	8850.63	0.00	
17900.00	89.46	89.91	8425.13	-877.44	8914.65	8950.45	0.00	
18000.00	89.46	89.91	8426.06	-877.29	9014.64	9050.27	0.00	
18100.00	89.46	89.91	8427.00	-877.13	9114.64	9150.09	0.00	
18200.00	89.46	89.91	8427.93	-876.97	9214.64	9249.91	0.00	
18300.00	89.46	89.91	8428.87	-876.81	9314.63	9349.73	0.00	
18400.00	89.46	89.91	8429.81	-876.66	9414.63	9449.55	0.00	
18500.00	89.46	89.91	8430.74	-876.50	9514.62	9549.37	0.00	
18600.00	89.46	89.91	8431.68	-876.34	9614.62	9649.19	0.00	
18700.00	89.46	89.91	8432.61	-876.18	9714.61	9749.01	0.00	
18800.00	89.46	89.91	8433.55	-876.03	9814.61	9848.83	0.00	
18900.00	89.46	89.91	8434.48	-875.87	9914.60	9948.65	0.00	
19000.00	89.46	89.91	8435.42	-875.71	10014.60	10048.47	0.00	
19100.00	89.46	89.91	8436.35	-875.56	10114.60	10148.29	0.00	
19200.00	89.46	89.91	8437.29	-875.40	10214.59	10248.10	0.00	
19300.00	89.46	89.91	8438.22	-875.24	10314.59	10347.92	0.00	
19400.00	89.46	89.91	8439.16	-875.08	10414.58	10447.74	0.00	
19500.00	89.46	89.91	8440.09	-874.93	10514.58	10547.56	0.00	
19600.00	89.46	89.91	8441.03	-874.77	10614.57	10647.38	0.00	

MIMOSA 18-16 STATE COM 224H



**Well:** MIMOSA 18-16 STATE COM 224H  
**County:** Eddy  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19700.00	89.46	89.91	8441.96	-874.61	10714.57	10747.20	0.00	
19800.00	89.46	89.91	8442.90	-874.46	10814.56	10847.02	0.00	
19900.00	89.46	89.91	8443.83	-874.30	10914.56	10946.84	0.00	
20000.00	89.46	89.91	8444.77	-874.14	11014.55	11046.66	0.00	
20100.00	89.46	89.91	8445.71	-873.98	11114.55	11146.48	0.00	
20200.00	89.46	89.91	8446.64	-873.83	11214.55	11246.30	0.00	
20300.00	89.46	89.91	8447.58	-873.67	11314.54	11346.12	0.00	
20400.00	89.46	89.91	8448.51	-873.51	11414.54	11445.94	0.00	
20500.00	89.46	89.91	8449.45	-873.36	11514.53	11545.76	0.00	
20600.00	89.46	89.91	8450.38	-873.20	11614.53	11645.58	0.00	
20700.00	89.46	89.91	8451.32	-873.04	11714.52	11745.40	0.00	
20800.00	89.46	89.91	8452.25	-872.88	11814.52	11845.21	0.00	
20900.00	89.46	89.91	8453.19	-872.73	11914.51	11945.03	0.00	
21000.00	89.46	89.91	8454.12	-872.57	12014.51	12044.85	0.00	
21100.00	89.46	89.91	8455.06	-872.41	12114.51	12144.67	0.00	
21200.00	89.46	89.91	8455.99	-872.25	12214.50	12244.49	0.00	
21300.00	89.46	89.91	8456.93	-872.10	12314.50	12344.31	0.00	
21400.00	89.46	89.91	8457.86	-871.94	12414.49	12444.13	0.00	
21500.00	89.46	89.91	8458.80	-871.78	12514.49	12543.95	0.00	
21600.00	89.46	89.91	8459.73	-871.63	12614.48	12643.77	0.00	
21700.00	89.46	89.91	8460.67	-871.47	12714.48	12743.59	0.00	
21800.00	89.46	89.91	8461.61	-871.31	12814.47	12843.41	0.00	
21900.00	89.46	89.91	8462.54	-871.15	12914.47	12943.23	0.00	
22000.00	89.46	89.91	8463.48	-871.00	13014.46	13043.05	0.00	
22100.00	89.46	89.91	8464.41	-870.84	13114.46	13142.87	0.00	
22200.00	89.46	89.91	8465.35	-870.68	13214.46	13242.69	0.00	
22300.00	89.46	89.91	8466.28	-870.53	13314.45	13342.51	0.00	
22400.00	89.46	89.91	8467.22	-870.37	13414.45	13442.33	0.00	
22500.00	89.46	89.91	8468.15	-870.21	13514.44	13542.14	0.00	
22600.00	89.46	89.91	8469.09	-870.05	13614.44	13641.96	0.00	
22700.00	89.46	89.91	8470.02	-869.90	13714.43	13741.78	0.00	
22800.00	89.46	89.91	8470.96	-869.74	13814.43	13841.60	0.00	
22900.00	89.46	89.91	8471.89	-869.58	13914.42	13941.42	0.00	
23000.00	89.46	89.91	8472.83	-869.42	14014.42	14041.24	0.00	
23100.00	89.46	89.91	8473.76	-869.27	14114.42	14141.06	0.00	
23200.00	89.46	89.91	8474.70	-869.11	14214.41	14240.88	0.00	
23300.00	89.46	89.91	8475.63	-868.95	14314.41	14340.70	0.00	
23400.00	89.46	89.91	8476.57	-868.80	14414.40	14440.52	0.00	
23500.00	89.46	89.91	8477.50	-868.64	14514.40	14540.34	0.00	
23600.00	89.46	89.91	8478.44	-868.48	14614.39	14640.16	0.00	
23700.00	89.46	89.91	8479.38	-868.32	14714.39	14739.98	0.00	
23800.00	89.46	89.91	8480.31	-868.17	14814.38	14839.80	0.00	
23900.00	89.46	89.91	8481.25	-868.01	14914.38	14939.62	0.00	
23902.80	89.46	89.91	8481.27	-868.01	14917.18	14942.42	0.00	exit
23982.80	89.46	89.91	8482.00	-867.90	14997.18	15022.27	0.00	BHL

MIMOSA 18-16 STATE COM 224H

**Well:** MIMOSA 18-16 STATE COM 224H  
**County:** Eddy  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	



**Devon Energy Center  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102-5015**

# **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan**

**For**

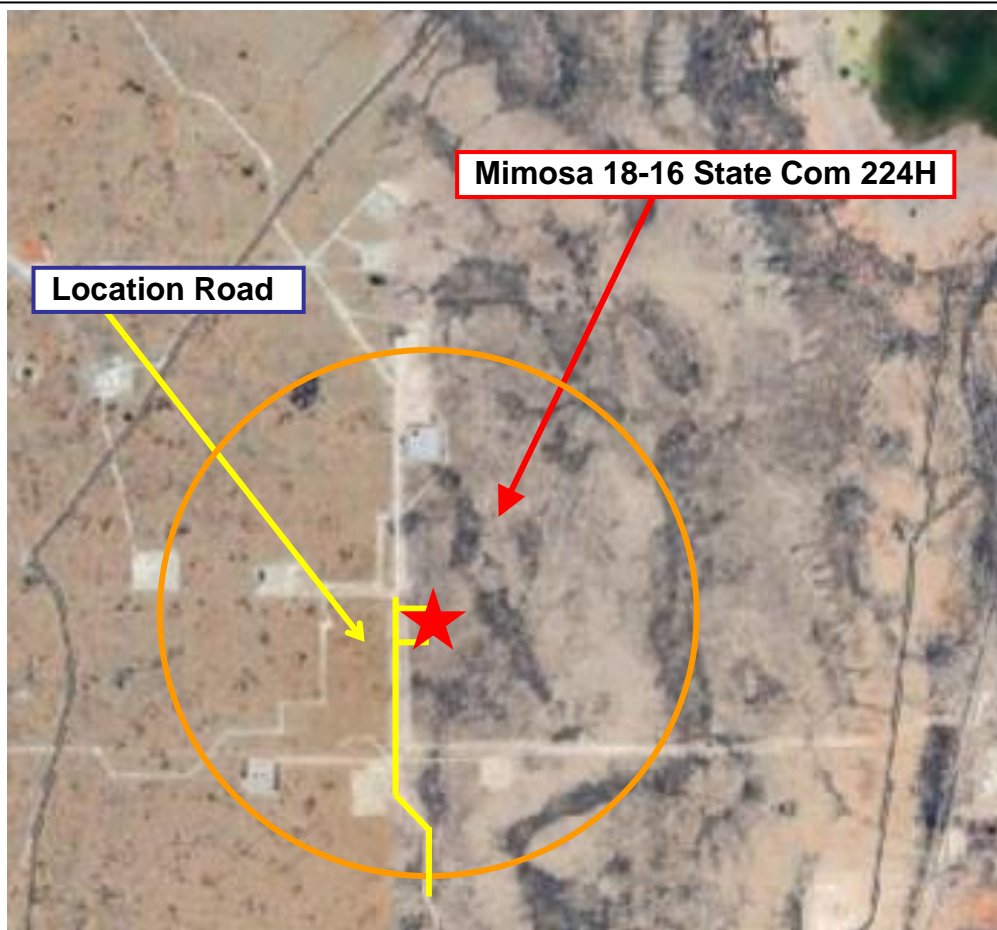
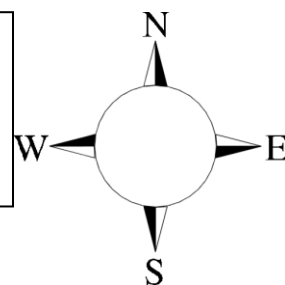
**Mimosa 18-16 State Com 224H**

**Sec-18 T-20S R-30E  
1612' FSL & 805' FWL  
LAT. = 32.5705452° N (NAD83)  
LONG = 104.0172975° W**

**Eddy County NM**

## Mimosa 18-16 State Com 224H

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.



Assumed 100 ppm ROE = 3000' (Radius of Exposure)  
100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

### Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

**Assumed 100 ppm ROE = 3000'**

**100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.**

## **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

### **Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

<b>Common Name</b>	<b>Chemical Formula</b>	<b>Specific Gravity</b>	<b>Threshold Limit</b>	<b>Hazardous Limit</b>	<b>Lethal Concentration</b>
<b>Hydrogen Sulfide</b>	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
<b>Sulfur Dioxide</b>	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

### **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

## Hydrogen Sulfide Drilling Operation Plan

### I. HYDROGEN SULFIDE (H<sub>2</sub>S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan.

There will be weekly H<sub>2</sub>S and well control drills for all personnel in each crew.

### II. HYDROGEN SULFIDE TRAINING

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S.

#### 1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

## **2. Protective equipment for essential personnel:**

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

## **3. H<sub>2</sub>S detection and monitoring equipment:**

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S levels reach 10 ppm and audible sirens which activate at 10 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

### **Visual warning systems:**

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

## **4. Mud program:**

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

## **5. Metallurgy:**

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.



**6. Communication:**

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

**7. Well testing:**

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

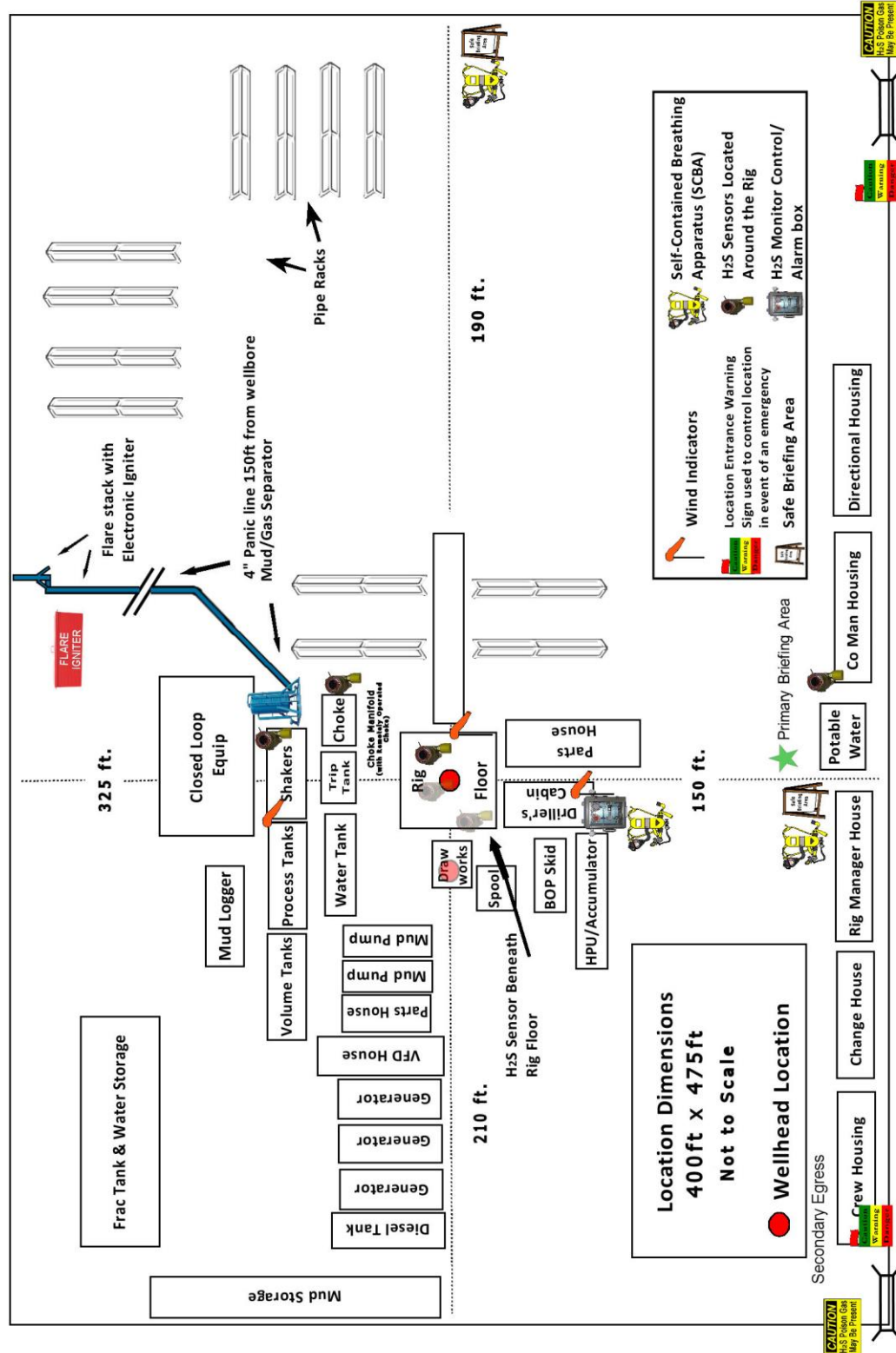
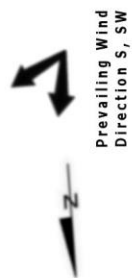
<b><u>Devon Energy Corp. Company Call List</u></b>			
<b>Employee/Company Contact Representative</b>	<b>Position</b>	<b>Phone Number</b>	<b>After Hours Number</b>
Jonathan Fisher (North)	Drilling Manager	832-967-7912	
Jason Hildebrand (South)	Drilling Manager	405-552-6514	
Rich Downey	Drilling VP	405-228-2415	
Josh Harvey	EHS Manager	405-228-2440	918-500-5536
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145
Robert Glover	EHS Professional	575-703-5712	575-703-5712
Lane Frank	Lead EHS	580-579-7052	580-579-7052
Rickey Porter	Lead EHS	903-720-8315	903-720-8315
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046
Brock Vise	Lead EHS	918-413-3291	918-413-3291

<b>Agency Call List</b>		
<b><u>Lea County (575)</u></b>	<b>Hobbs</b>	
	Lea County Communication Authority	397-9265
	State Police	885-3138
	City Police	397-9265
	Sheriff's Office	396-3611
	<b>Ambulance</b>	<b>911</b>
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management (Closed)	393-0002
<b><u>Eddy County (575)</u></b>	<b>Carlsbad</b>	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	<b>Ambulance</b>	<b>911</b>
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	234-5972
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	<b>Emergency Services</b>	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
	For Air Ambulance - <b>Eddy County</b> Dispatch	(575)-616-7155
<b><u>Give GPS position:</u></b>	For Air Ambulance - <b>Lea County</b> (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - <a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a>	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118

Prepared in conjunction with  
Dave Small



# Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



1. Geologic Formations

TVD of target	8481	Pilot hole depth	N/A
MD at TD:	23983	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	304		
Salt	412		
Base of Salt	1680		
Capitan Reef Top	2157		
Delaware	3704		
Cherry Canyon	4656		
Brushy Canyon	7261		
Bone Spring 1st	7408		
Bone Spring 2nd	8188		

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

## MIMOSA 18-16 STATE COM 224H

**2. Casing Program (Primary Design)**

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54.5	J-55	BTC	0.0	329 MD	0	329 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	1705 MD	0	1705 TVD
9 7/8	8 5/8	32.0	P110EC	MOFXL	0	3754 MD	0	3754 TVD
7 7/8	5 1/2	20.0	P110	DWC/C IS+	0	23983 MD	0	8481 TVD

- All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.
- The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

**3. Cementing Program (Primary Design)**

Casing	# Skis	TOC	Wt. (lb/gal)	Yld (ft <sup>3</sup> /sack)	Slurry Description
Surface	277	0	13.2	1.44	Lead: Class C Cement + additives
Int	91	0	9	3.27	Lead: Class C Cement + additives
	101	1205	13.2	1.44	Tail: Class H / C + additives
Int 1	127	0	9	3.27	Lead: Class C Cement + additives
	67	3254	13.2	1.44	Tail: Class H / C + additives
Production	117	5904	9	3.27	Lead: Class H / C + additives
	2128	7904	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Capitan and the second stage performed as a bradenhead squeeze with planned cement from the Capitan to surface. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Casing String	% Excess
Surface	50%
Intermediate and Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

MIMOSA 18-16 STATE COM 224H

**4. Pressure Control Equipment (Four String Design)**

W. Pressure Control Equipment (Four String Design)						
BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:
Int	13-5/8"	5M	Annular		X	50% of rated working pressure
			Blind Ram		X	5M
			Pipe Ram			
			Double Ram		X	
			Other*			
Int 1	13-5/8"	5M	Annular (5M)		X	100% of rated working pressure
			Blind Ram		X	5M
			Pipe Ram			
			Double Ram		X	
			Other*			
Production	13-5/8"	5M	Annular (5M)		X	100% of rated working pressure
			Blind Ram		X	5M
			Pipe Ram			
			Double Ram		X	
			Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
N	A variance is requested to run a 5 M annular on a 10M system					

**5. Mud Program (Four String Design)**

Section	Type	Weight (ppg)
Surface	WBM	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Intermediate 1	WBM	8.5-9
Production	OBM	10-10.5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

**6. Logging and Testing Procedures****Logging, Coring and Testing**

X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
X CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	

**7. Drilling Conditions**

Condition	Specify what type and where?
BH pressure at deepest TVD	4631
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H<sub>2</sub>S) monitors will be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176.. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H <sub>2</sub> S is present
Y	H <sub>2</sub> S plan attached.

**8. Other facets of operation**

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

<u>X</u>	Directional Plan
<u>          </u>	Other, describe



State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** DEVON ENERGY PRODUCTION COMPANY, LP **OGRID:** 6137 **Date:** 12 / 18 / 2024

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See attachment						

**IV. Central Delivery Point Name:** See attachment [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See attachment						

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**NATURAL GAS MANAGEMENT PLAN****Section 1 - Plan Description**

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR & FOOTAGE	Anticipated Gas/Oil/Water	Central Delivery Point Name:
MIMOSA 17-16 STATE COM 221H	n/a	18-20S-30E, 720 FNL & 2490 FWL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	MIMOSA 18 CTB 1
MIMOSA 17-16 STATE COM 222H	n/a	18-20S-30E, 2000 FNL & 2490 FWL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	MIMOSA 18 CTB 1
MIMOSA 18-16 STATE COM 223H	n/a	18-20S-30E, 1642 FSL & 805 FWL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	MIMOSA 18 CTB 1
MIMOSA 18-16 STATE COM 224H	n/a	18-20S-30E, 1612 FSL & 805 FWL	(+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd	MIMOSA 18 CTB 1

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow back Date	First Production Date
MIMOSA 17-16 STATE COM 221H	n/a	4/30/2025	5/30/2025	9/27/2025	9/27/2025	9/27/2025
MIMOSA 17-16 STATE COM 222H	n/a	5/20/2025	6/19/2025	10/17/2025	10/17/2025	10/17/2025
MIMOSA 18-16 STATE COM 223H	n/a	5/2/2025	6/1/2025	9/29/2025	9/29/2025	9/29/2025
MIMOSA 18-16 STATE COM 224H	n/a	4/14/2025	5/14/2025	9/11/2025	9/11/2025	9/11/2025

\* Dates subject to change

**Section 2 – Enhanced Plan**  
**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

D Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Jeffrey Walla
Title:	Surface Land & Regulatory Manager
E-mail Address:	jeff.walla@dvn.com
Date:	
Phone:	(405) 552-8154
<b>OIL CONSERVATION DIVISION</b> (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



## VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



## VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
  - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



#### VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.





Devon Energy Production Company, L.P.  
333 W. Sheridan Avenue  
Oklahoma City, Oklahoma  
73102  
Phone: (405) 228-4800

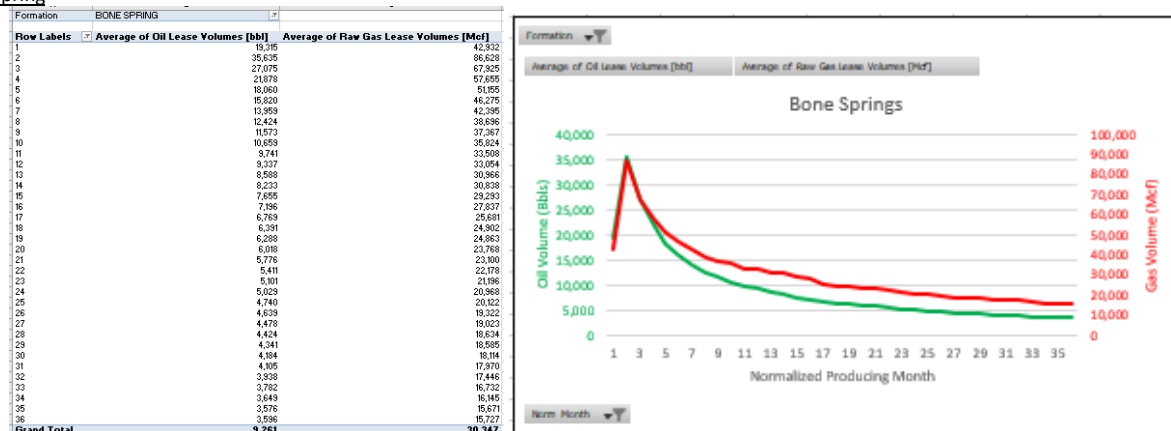
## WASTE MINIMIZATION PLAN

Per 89 FR 25378 - Waste Prevention, Production Subject to Royalties, and Resource Conservation, requirements:

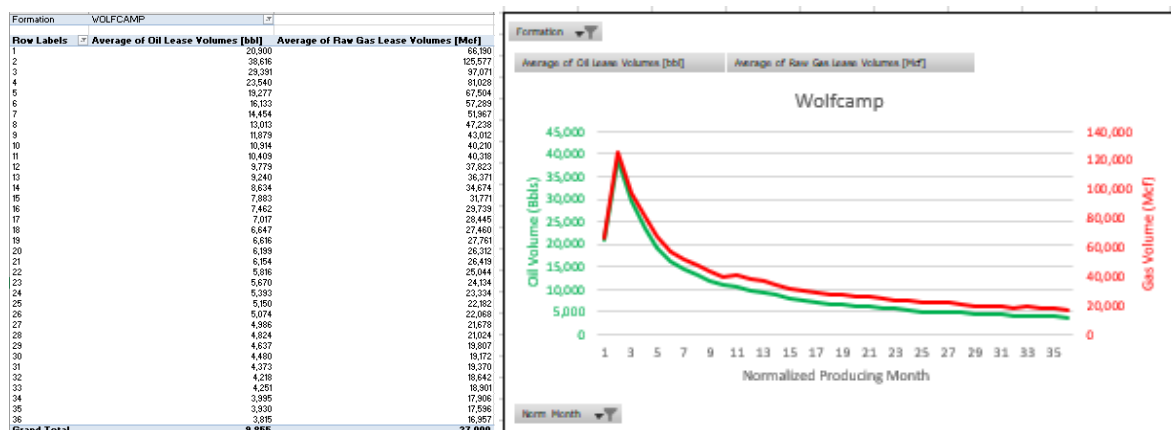
- (1) initial oil production estimates and decline,
- (2) initial gas production estimates and decline,
- (3) certification that the operator has an executed gas sales contract to sell 100 percent of the produced oil-well gas, and
- (4) any other information demonstrating the operator's plans to avoid the waste of gas.

(1), (2) 3 year Oil and Gas decline curves: Bone Spring and Wolfcamp formation decline curves below supply Year 1, 2, 3 cumulative values for oil and gas, in range format; based on peak IP rates for oil and gas based on Devon Energy Production Company, L.P. operated wells ID post 1/2019, 10K LL norm, P90-10 ranges, annualized rates. Please refer to NGMP for table of initial oil and gas volumes.

### Bone Spring



### Wolfcamp



(3) Certification (NGMP Section 3 – Certification): Operator (Devon Energy Production Company, L.P.) will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system;

(4) Addl waste avoidance information: Refer to NGMP Sec. VII. Operational Practices & VIII. Best Management Practices during Maintenance