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 389363

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

	ame and Address EVON ENERGY PRO	ODUCTION COMP	ANY, LP	·	·	•	·	2. OGF	RID Number 6137		
	3 West Sheridan A dahoma City, OK 73		,					3. API	Number 30-015-5690	0	
4. Property Co	ode 7368	5.	Property Name CEDAR HILI	_S 15 16 STATE CC	DM			6. Well	I No. 332H		
				7. Su	rface Location						
UL - Lot F	Section 14	Township 21S	Range 27E	Lot Idn F	Feet From 1929	N/S Line	Feet From	1395	E/W Line W	County Eddy	
			•	8. Proposed	Bottom Hole Loca	tion	•		•	•	
UL - Lot E	Section 16	Township 21S	Range 27E	Lot Idn E	Feet From 1422	N/S Line	Feet Fi	rom 20	E/W Line W	County Eddy	
				9. Po	ool Information						
CARLSBAD	;BONE SPRING, EA	AST							96144		
				Addition	al Well Information						
11. Work Type	w Well	12. Well Type OIL	1	3. Cable/Rotary		14. Lease Type State	1		Ground Level Elevation 3220 Spud Date 11/28/2025 ance to nearest surface water		
16. Multiple N		17. Proposed De 1942		8. Formation Bone Sprir	ng	19. Contractor	2	20. Spud Dat 11			
Depth to Grou	ınd water		С	istance from nearest f	resh water well		[Distance to n			
⊠ We will be	using a closed-loo	op system in lieu	of lined pits				*				
		_			sing and Cement I						
Туре	Hole Size	Casing Si		Casing Weight/ft	Setting			of Cement		Estimated TOC	
Surf	17.5	13.375		54.5	60			81		0	
Int1	12.25	10.75 8.625		45.5 32	55			04.7		0	
Int2 Prod	9.875 7.875	5.5		20	29: 194			164 1904		550	
FIOU	1.010	5.5	l l	20	194	4 4		1304		550	

22. Proposed Blowout Prevention Program

	22. FTOPOSEG BIOWOUT FTEVE	ition i rogium	
Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	
Blind	5000	5000	
Double Ram	5000	5000	
Annular	5000	5000	
Double Ram	5000	5000	
Blind	5000	5000	

Casing/Cement Program: Additional Comments

knowledge and b	pelief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSER	RVATION DIVISION
Printed Name:	Electronically filed by Jeff Walla		Approved By:	Jeffrey Harrison	
Title:	Supervisor Land		Title:	Petroleum Specialist II	II
Email Address:	Jeff.Walla@dvn.com		Approved Date:	6/24/2025	Expiration Date: 6/24/2027
Date:	5/15/2025	Phone: 575-748-9925	Conditions of App	proval Attached	·

<u>C-1</u>	02				ls & Natui	ral	ew Mexico Resources Depa			Rev	ised July, 2024		
Submit E	lectronically		OIL	COL	ISERVA	TI	ION DIVISION	ON		_			
Via OCE	Permitting							Submittal Type:					
										☐ As Drilled			
				W	ELL LOCA	TIC	ON INFORMATIO	N					
	umber)15-569	000	Pool Cod 9614	-		Po	ool Name Carlsbad, Bone	Spring, E	ast				
	rty Code 368		Property	Name	CEDAR HIL	LS	15 16 STATE CO	OM.		Well Number 332H			
OGRID	No. 6137		Operator		N ENERGY	PR	ODUCTION COMPA	NY, L.P.		Ground Level 3219.8'	Elevation		
Surfac	e Owner:	⊠State □	Fee □Tril	oal 📭 e	deral		Mineral Owner:	⊠State	□Fee □1	ribal □Federal			
					_								
UL	Section	Township	Range	Lot	1		ce Location Ft. from E/W	Latitude	<u> </u>	Longitude	Count		
		21-S		Lot	1929' N	•	1395' W	32.482206		104.164568	County		
F	14	£1-2	27-E		Tava I	٧	1989 #	J&.40A	2500	104.104000	EDDY		
			1		1		Hole Location						
UL	Section	Township	Range	Lot	Ft. from		Ft. from E/W	Latitude		Longitude	County		
E	16	21-S	27-E		1422' N	1	20' W	32.483	570	104.203396	EDDY		
		ļ.	!	!	ļ								
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API Ov	erla	apping Spacing Unit	t (Y/N)		ation Code			
640		DEFINING	G	N/A		NC	O		С				
Order	Numbers	PENDING			₩e	ell s	setbacks are under	Common	0wnershi	ip: □Yes ⊠No			
	T	I	I _	T			Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from	•	1	Latitude		Longitude	County		
H	15	21-S	27-E				50' E	32.483	582	104.169259	EDDY		
							ce Point (FTP)						
UL	Section	Township	Range	Lot			Ft. from E/W	Latitude		Longitude	County		
H	15	21-S	27-E				100' E	32.483	580	104.169421	EDDY		
				'	Last	Tak	re Point (LTP)						
UL	Section	Township	Range	Lot	Ft. from	N/S	Ft. from E/W	Latitude		Longitude	County		
E	16	21-S	27-E		1422' N	1	100' W	32.483	568	104.203137	EDDY		
					Spacing		nit Type Horizont	tal Verti	cal G	round Floor Ele	vation:		
					l .								
		FICATIONS					SURVEYOR CERTIFIC	ATIONS					
					omplete to the best onal well, that thi		I hereby certify that the we	ll location sho	own on this p	lat was plotted from fiel	d notes		
organizat	tion either own	ns a working inte	erest or unlease	d mineral in	terest in the land	- 1	of actual surveys made by a correct to the best of my be		upervision, a				
		bottom hole loc contract with an o				- [`	correct to the best of my be	nici.		OT R. D	DEU		
mineral i	nterest, or to a	voluntary pooli			ory pooling order	r				&EK WE	DEHOLOS		
heretofor	e entered by t	ne division.								/ EN WEX	⟨ _C \~\\		
					ion has received t	the				(/ / //		
		lessee or owner on the target pool			part of the well's	,				23261	1 / w //		
complete					ng order from the				,	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	1/5/		
division.										170	/54/		
Sigr)a	ture, /	٦,	Date			s	Signature and Seal	of Profe	ssional S	urveyor / ONAL	50 ^K /		
Shi	mdu /	haras	5/13/	/25						JAKE	_		
Printe	ed Name					c	ertificate Number	Date of	Survey				
	NDEE THOM	AS					00004		-				
	Address	MC@DVDI CON				7	23261	04/20	25				
SHA	NDEE. I HOM	IAS@DVN.CON	VI			- 1	l						

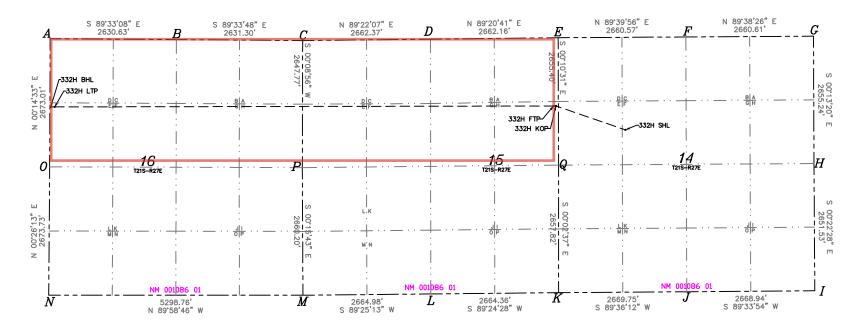
5/15/2025 4:35:19 PM

Received by OCD:

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



A=N:541100.14/E:581389.64 B=N:541079.58/E:584020.19 C=N:541059.53/E:586651.42 D=N:541088.86/E:589313.62 E=N:541119.31/E:591975.61 F=N:541134.84/E:594636.13 G=N:541151.53/E:597296.69 H=N:538496.31/E:597306.98 I=N:535844.84/E:597324.31 J=N:535824.58/E:594655.45 K=N:535806.10/E:591985.76 L=N:535778.56/F:589321.54 M=N:535751.60/E:586656.70 N=N:535753.50/E:581357.94 D=N:538427.15/E:581378.33 P=N:538411.77/E:586644.54 Q=N:538463.92/E:591983.74

GEODETIC COURDINATES NAD 83 NMSP EAST SURFACE LOCATION 1929' FNL 1395' FWL SECTION 14 EL:3219.8' N:539198.54/E:593377.00 LAT:32.482206/LUN:104.164568 KICK OFF POINT 1422' FNL 50' FEL SECTION 15 N;539696,70/E;591929,97 LAT:32.483582/LUN:104.169259 FIRST TAKE POINT 1422' FNL 100' FEL SECTION 15 N:539696.13/E:591879.97 LAT:32.483580/LUN:104.169421 LAST TAKE POINT 1422' FNL 100' FWL SECTION 16 N:539677.37/E:581483.63 LAT:32.483568/LUN:104.203137 BOTTOM HOLE LOCATION 1422' FNL 20' FWL SECTION 16 N;539677.99/E;581403.63

LAT:32.483570/LUN:104.203396

SURFACE HOLE LOCATION

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

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

Form APD Conditions

Permit 389363

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-015-56900
333 West Sheridan Ave.	Well:
Oklahoma City, OK 73102	CEDAR HILLS 15 16 STATE COM #332H

OCD Reviewer	Condition
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
, ,	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.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
, ,	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.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	This well is within the designated 4-string area. Four full casing strings must be utilized for this well.
	This well is within the Capitan Reef. The first intermediate casing string shall be set 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.
, ,	In Capitan Reef areas if lost circulation (50% or greater) occurs below the base of the salt, the operator shall switch to freshwater mud until the intermediate casing is set. (The operator shall notify NMOCD of this switch.)

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressure-containing and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	Х
Blind Rams		Х		Х
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X	X	X
Kill Line Check Valve		X	Х	Х
Inside Choke Valve		Х	Х	Х
HCR		X	X	X
Kill Line	X			X
Annular		X		X
Choke Manifold Valves and Hose	Χ			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	Х			X
Standpipe Valve	Х			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72-hours form completing the offline BOPE component testing

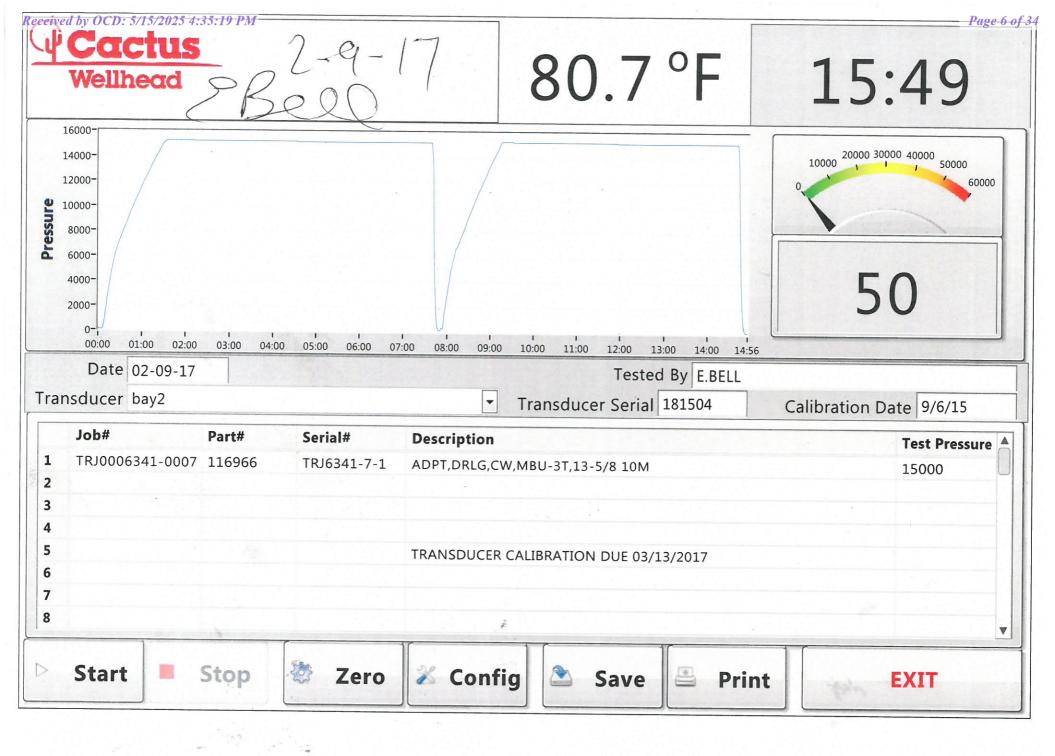
Notify the BLM if the online BOPE testing exceeds 72-hours

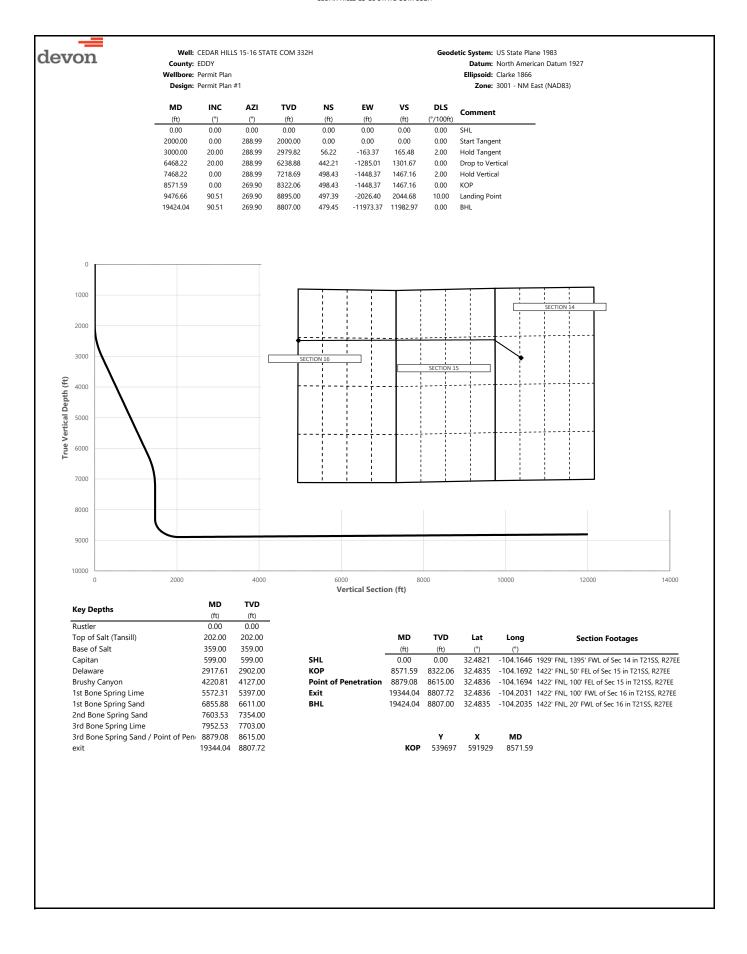
All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online

Devon requests Break testing as stated above for 5K tests, not including production hole

 $Annular\ Preventer\ will\ be\ tested\ to\ minimum\ of\ 70\%\ RWP\ and\ higher\ than\ MASP\ during\ initial\ BOP\ test$

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole







Well: CEDAR HILLS 15-16 STATE COM 332H

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)

	Design.	Permit Plan						Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	288.99	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	288.99	200.00	0.00	0.00	0.00	0.00	
202.00	0.00	288.99	202.00	0.00	0.00	0.00	0.00	Top of Salt (Tansill)
300.00	0.00	288.99	300.00	0.00	0.00	0.00	0.00	
359.00	0.00	288.99	359.00	0.00	0.00	0.00	0.00	Base of Salt
400.00	0.00	288.99	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	288.99	500.00	0.00	0.00	0.00	0.00	
599.00	0.00	288.99	599.00	0.00	0.00	0.00	0.00	Capitan
600.00	0.00	288.99	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	288.99	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	288.99	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	288.99	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	288.99	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	288.99	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	288.99	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	288.99	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	288.99	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	288.99	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	288.99	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	288.99	1700.00	0.00	0.00	0.00	0.00	
1800.00 1900.00	0.00	288.99 288.99	1800.00 1900.00	0.00	0.00 0.00	0.00	0.00	
2000.00	0.00	288.99	2000.00	0.00	0.00	0.00		Start Tangent
2100.00	2.00	288.99	2000.00	0.00	-1.65	1.67	0.00 2.00	Start Tangent
2200.00	4.00	288.99	2199.84	2.27	-6.60	6.68	2.00	
2300.00	6.00	288.99	2299.45	5.11	-14.84	15.03	2.00	
2400.00	8.00	288.99	2398.70	9.07	-26.36	26.70	2.00	
2500.00	10.00	288.99	2497.47	14.16	-41.15	41.69	2.00	
2600.00	12.00	288.99	2595.62	20.37	-59.20	59.96	2.00	
2700.00	14.00	288.99	2693.06	27.69	-80.47	81.51	2.00	
2800.00	16.00	288.99	2789.64	36.11	-104.94	106.30	2.00	
2900.00	18.00	288.99	2885.27	45.63	-132.58	134.30	2.00	
2917.61	18.35	288.99	2902.00	47.41	-137.78	139.56	2.00	Delaware
3000.00	20.00	288.99	2979.82	56.22	-163.37	165.48	2.00	Hold Tangent
3100.00	20.00	288.99	3073.78	67.35	-195.71	198.24	0.00	
3200.00	20.00	288.99	3167.75	78.48	-228.05	231.00	0.00	
3300.00	20.00	288.99	3261.72	89.61	-260.39	263.76	0.00	
3400.00	20.00	288.99	3355.69	100.74	-292.73	296.52	0.00	
3500.00	20.00	288.99	3449.66	111.87	-325.07	329.28	0.00	
3600.00	20.00	288.99	3543.63	122.99	-357.41	362.04	0.00	
3700.00	20.00	288.99	3637.60	134.12	-389.75	394.80	0.00	
3800.00	20.00	288.99	3731.57	145.25	-422.09	427.56	0.00	
3900.00	20.00	288.99	3825.54	156.38	-454.43	460.32	0.00	
4000.00	20.00	288.99	3919.51	167.51	-486.77	493.08	0.00	
4100.00	20.00	288.99	4013.48	178.64	-519.11	525.84	0.00	
4200.00	20.00	288.99	4107.45	189.77	-551.45	558.60	0.00	Prishy Canyon
4220.81	20.00	288.99	4127.00	192.09	-558.18	565.42	0.00	Brushy Canyon
4300.00	20.00	288.99	4201.42	200.90	-583.79 616.12	591.36	0.00	
4400.00 4500.00	20.00 20.00	288.99 288.99	4295.39 4389.35	212.03 223.16	-616.13 -648.47	624.12 656.88	0.00	
4600.00	20.00	288.99	4483.32	234.29	-646.47 -680.81	689.64	0.00	
4700.00	20.00	288.99	4577.29	245.42	-713.16	722.40	0.00	
4800.00	20.00	288.99	4671.26	256.55	-745.50	755.16	0.00	
4900.00	20.00	288.99	4765.23	267.68	-777.84	787.92	0.00	
5000.00	20.00	288.99	4859.20	278.81	-810.18	820.68	0.00	
5100.00	20.00	288.99	4953.17	289.93	-842.52	853.44	0.00	
5200.00	20.00	288.99	5047.14	301.06	-874.86	886.20	0.00	
5300.00	20.00	288.99	5141.11	312.19	-907.20	918.96	0.00	
5400.00	20.00	288.99	5235.08	323.32	-939.54	951.72	0.00	
5500.00	20.00	288.99	5329.05	334.45	-971.88	984.48	0.00	
5572.31	20.00	288.99	5397.00	342.50	-995.27	1008.17	0.00	1st Bone Spring Lime
5600.00	20.00	288.99	5423.02	345.58	-1004.22	1017.24	0.00	
5700.00	20.00	288.99	5516.99	356.71	-1036.56	1050.00	0.00	
5800.00	20.00	288.99	5610.96	367.84	-1068.90	1082.76	0.00	
5900.00	20.00	288.99	5704.92	378.97	-1101.24	1115.52	0.00	
6000.00	20.00	288.99	5798.89	390.10	-1133.58	1148.28	0.00	
6100.00	20.00	288.99	5892.86	401.23	-1165.92	1181.04	0.00	
6200.00	20.00	288.99	5986.83	412.36	-1198.26	1213.80	0.00	
6300.00	20.00	288.99	6080.80	423.49	-1230.61	1246.56	0.00	



Well: CEDAR HILLS 15-16 STATE COM 332H

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)

	2 co.g	remitrian						Zone. 3001 - NW East (NAD03)
MD	INC	AZI	TVD	NS	EW	VS	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6400.00	20.00	288.99	6174.77	434.62	-1262.95	1279.32	0.00	
6468.22	20.00	288.99	6238.88	442.21	-1285.01	1301.67	0.00	Drop to Vertical
6500.00	19.36	288.99	6268.80	445.70	-1295.13	1311.92	2.00	stop to vertical
6600.00	17.36	288.99	6363.70	455.95	-1324.92	1342.10	2.00	
6700.00	15.36	288.99	6459.65	465.11	-1351.56	1369.09	2.00	
6800.00	13.36	288.99	6556.51	473.19	-1375.02	1392.85	2.00	
6855.88	12.25	288.99		477.22		1404.71		1st Pone Caring Cond
	11.36	288.99	6611.00		-1386.73		2.00 2.00	1st Bone Spring Sand
6900.00			6654.19	480.15	-1395.26	1413.36		
7000.00	9.36	288.99	6752.55	486.01	-1412.27	1430.59	2.00	
7100.00	7.36	288.99	6851.48	490.74	-1426.03	1444.52	2.00	
7200.00	5.36	288.99	6950.86	494.35	-1436.51	1455.14	2.00	
7300.00	3.36	288.99	7050.57	496.82	-1443.70	1462.43	2.00	
7400.00	1.36	288.99	7150.48	498.17	-1447.60	1466.38	2.00	
7468.22	0.00	288.99	7218.69	498.43	-1448.37	1467.16	2.00	Hold Vertical
7500.00	0.00	269.90	7250.47	498.43	-1448.37	1467.16	0.00	
7600.00	0.00	269.90	7350.47	498.43	-1448.37	1467.16	0.00	
7603.53	0.00	269.90	7354.00	498.43	-1448.37	1467.16	0.00	2nd Bone Spring Sand
7700.00	0.00	269.90	7450.47	498.43	-1448.37	1467.16	0.00	
7800.00	0.00	269.90	7550.47	498.43	-1448.37	1467.16	0.00	
7900.00	0.00	269.90	7650.47	498.43	-1448.37	1467.16	0.00	
7952.53	0.00	269.90	7703.00	498.43	-1448.37	1467.16	0.00	3rd Bone Spring Lime
8000.00	0.00	269.90	7750.47	498.43	-1448.37	1467.16	0.00	
8100.00	0.00	269.90	7850.47	498.43	-1448.37	1467.16	0.00	
8200.00	0.00	269.90	7950.47	498.43	-1448.37	1467.16	0.00	
8300.00	0.00	269.90	8050.47	498.43	-1448.37	1467.16	0.00	
8400.00	0.00	269.90	8150.47	498.43	-1448.37	1467.16	0.00	
8500.00	0.00	269.90	8250.47	498.43	-1448.37	1467.16	0.00	
8571.59	0.00	269.90	8322.06	498.43	-1448.37	1467.16	0.00	KOP
8600.00	2.84	269.90	8350.46	498.43	-1449.08	1467.86	10.00	
8700.00	12.84	269.90	8449.40	498.41	-1462.70	1481.47	10.00	
8800.00	22.84	269.90	8544.47	498.35	-1493.30	1512.04	10.00	
8879.08	30.75	269.90	8615.00	498.29	-1528.92	1547.63	10.00	3rd Bone Spring Sand / Point of Penetration
8900.00	32.84	269.90	8632.78	498.27	-1539.94	1558.65	10.00	
9000.00	42.84	269.90	8711.65	498.16	-1601.21	1619.86	10.00	
9100.00	52.84	269.90	8778.69	498.02	-1675.25	1693.83	10.00	
9200.00	62.84	269.90	8831.85	497.87	-1759.79	1778.31	10.00	
9300.00	72.84	269.90	8869.52	497.70	-1852.29	1870.72	10.00	
9400.00	82.84	269.90	8890.56	497.53	-1949.92	1968.27	10.00	
9476.66						2044.68		Landing Doint
	90.51	269.90	8895.00	497.39	-2026.40		10.00	Landing Point
9500.00	90.51	269.90	8894.79	497.35	-2049.74	2067.99	0.00	
9600.00	90.51	269.90	8893.91	497.17	-2149.73	2167.90	0.00	
9700.00	90.51	269.90	8893.02	496.99	-2249.73	2267.81	0.00	
9800.00	90.51	269.90	8892.14	496.81	-2349.72	2367.72	0.00	
9900.00	90.51	269.90	8891.26	496.62	-2449.72	2467.63	0.00	
10000.00	90.51	269.90	8890.37	496.44	-2549.72	2567.54	0.00	
10100.00	90.51	269.90	8889.49	496.26	-2649.71	2667.45	0.00	
10200.00	90.51	269.90	8888.60	496.08	-2749.71	2767.35	0.00	
10300.00	90.51	269.90	8887.72	495.90	-2849.70	2867.26	0.00	
10400.00	90.51	269.90	8886.83	495.72	-2949.70	2967.17	0.00	
10500.00	90.51	269.90	8885.95	495.54	-3049.70	3067.08	0.00	
10600.00	90.51	269.90	8885.06	495.36	-3149.69	3166.99	0.00	
10700.00	90.51	269.90	8884.18	495.18	-3249.69	3266.90	0.00	
10800.00	90.51	269.90	8883.29	495.00	-3349.68	3366.81	0.00	
10900.00	90.51	269.90	8882.41	494.82	-3449.68	3466.72	0.00	
11000.00	90.51	269.90	8881.53	494.64	-3549.68	3566.62	0.00	
11100.00	90.51	269.90	8880.64	494.46	-3649.67	3666.53	0.00	
11200.00	90.51	269.90	8879.76	494.27	-3749.67	3766.44	0.00	
11300.00	90.51	269.90	8878.87	494.09	-3849.66	3866.35	0.00	
11400.00	90.51	269.90	8877.99	493.91	-3949.66	3966.26	0.00	
11500.00	90.51	269.90	8877.10	493.73	-4049.65	4066.17	0.00	
11600.00	90.51	269.90	8876.22	493.55	-4149.65	4166.08	0.00	
11700.00	90.51	269.90	8875.33	493.37	-4249.65	4265.98	0.00	
11800.00	90.51	269.90	8874.45	493.19	-4349.64	4365.89	0.00	
11900.00	90.51	269.90	8873.57	493.01	-4449.64	4465.80	0.00	
12000.00	90.51	269.90	8872.68	492.83	-4549.63	4565.71	0.00	
12100.00	90.51	269.90	8871.80	492.65	-4649.63	4665.62	0.00	
12200.00	90.51	269.90	8870.91	492.47	-4749.63	4765.53	0.00	
12300.00	90.51	269.90	8870.03	492.29	-4849.62	4865.44	0.00	
12400.00	90.51	269.90	8869.14	492.11	-4949.62	4965.34	0.00	
12500.00	90.51	269.90	8868.26	491.93	-5049.61	5065.25	0.00	
500.00					5.01		2.00	



Well: CEDAR HILLS 15-16 STATE COM 332H

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)

(ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft)	(°) (0.51 (0.51 (0.51)	AZI (*) 269.90	TVD (ft) 8867.37 8866.49 8865.60 8864.72 8863.84 8862.95 8862.07 8861.18 8860.30 8859.41 8856.76 8855.87 8854.91 8854.11 8852.22 8852.34 8851.45 8850.57 8849.68 8847.91 8847.03 8846.14 8845.26 8844.38 8843.49 8842.61 8844.38 8843.39 8842.61 8841.72 8840.84 8839.95	NS (ft) 491.74 491.56 491.38 491.20 490.84 490.66 490.48 490.30 490.12 489.94 489.76 489.58 489.39 489.21 489.39 488.85 488.67 488.49 488.31 488.13 487.77 487.59 487.41 487.23 487.05 486.68 486.50 486.32 486.14 485.96	EW (ft) -5149.61 -5249.61 -5349.60 -5449.60 -5449.59 -5649.59 -5849.58 -6949.57 -6149.57 -6349.56 -6449.56 -6549.55 -6649.55 -6649.55 -6749.54 -6849.54 -6949.54 -7049.53 -7149.53 -7249.52 -7349.52 -7349.52 -7349.50 -7849.50 -7849.50 -7849.50 -7849.50 -7849.50 -8049.49 -8149.48 -8349.48	VS (ff) 5165.16 5265.07 5364.98 5464.89 55648.70 5764.61 5864.52 5964.43 6064.34 6164.25 6264.16 6364.07 6463.97 6563.88 6663.79 6763.70 6863.61 7063.63 7163.33 7263.24 7363.15 7463.09 7562.98 77662.88 7762.99 7862.69 7962.60 8006.51 8162.24	DLS (*/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Comment
(ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft)	(°) 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	(°) 269.90 269.9	(ft) 8867.37 8866.49 8867.37 8866.69 8864.72 8866.76 8863.84 8862.95 8862.07 8861.18 8860.30 8859.41 8856.76 8855.87 8854.99 8854.11 8853.22 8853.22 8853.24 8851.45 8850.57 8849.68 8848.80 8847.91 8847.03 8846.14 8845.26 8844.38 8843.49 8842.61 8841.72 8840.84 8839.95 8839.07	(ft) 491.74 491.56 491.38 491.20 490.84 490.66 490.48 490.30 490.12 489.97 489.58 489.39 489.21 489.03 488.86 488.49 488.31 488.13 487.95 487.77 487.59 486.68 486.68 486.68 486.68 486.69 486.51 485.96 485.78	(ft) -5149.61 -5249.61 -5349.60 -5449.60 -5449.59 -5649.59 -5849.58 -6049.57 -6149.57 -6349.56 -6449.56 -6449.55 -6649.55 -6749.54 -7049.53 -7149.53 -7149.52 -7349.52 -7349.52 -7349.52 -7349.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.52 -7449.53 -749.50 -7849.50 -7849.50 -7849.50 -7849.49 -8249.48 -8349.48	(ft) 5165.16 5265.07 5364.98 5464.89 5564.80 5664.70 5764.61 5864.52 5964.43 6064.34 6164.25 6264.16 6364.07 6463.97 6563.88 6663.79 6763.70 6863.61 6963.52 7063.43 7163.33 7263.24 7363.15 7363.15 7463.06 7562.97 7862.88 7762.79 7862.60 8062.51 8162.42 8262.33	(°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Comment
00.00 90.00	0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	269.90 269.90	8867.37 8866.49 8865.60 8866.72 8863.84 8862.95 8862.07 8861.18 8860.30 8859.41 8858.53 8857.64 8855.87 8854.11 8853.23 8854.11 8853.24 8854.14 8850.57 8849.68 8844.80 8847.91 8847.03 8847.91 8847.03 8844.84 8848.86 8844.86 8844.86 8844.86 8844.86 8844.86 8844.86 8844.86 8844.86 8844.86 8843.99 8842.61 8841.72	491.74 491.56 491.38 491.20 491.02 490.84 490.66 490.48 490.12 489.97 6489.58 489.39 489.21 489.03 488.67 488.49 488.31 488.13 487.95 487.77 487.75 486.66 486.68 486.68 486.68 486.52 486.52 486.54 485.96 485.78	-5149.61 -5249.61 -5349.60 -5449.69 -5449.59 -5649.59 -5749.59 -5849.58 -6049.57 -6149.57 -6349.56 -6449.56 -6549.55 -6649.55 -6649.54 -6849.54 -7049.53 -7149.53 -7249.52 -7349.52 -7349.52 -749.51 -7649.51 -7649.51 -7649.51 -7649.51 -7649.51 -7649.51 -7649.51 -7849.50 -7849.50 -8049.49 -8149.49 -8249.48 -8349.48	5165.16 5265.07 5364.98 5464.80 5564.80 5564.70 5764.61 5864.52 5964.43 6064.34 6164.25 6264.16 6364.07 6463.97 6563.88 6663.79 6763.70 6863.61 6963.52 7063.43 7163.33 7263.24 7363.15 7463.06 7562.97 7662.88 7762.79 7862.60 7862.60 8062.51 8162.42 8262.33	0.00 0.00	
00.00 90 00.00 90	0.51 0.51	269.90 269.90	8866.49 8865.60 8864.72 8863.84 8862.95 8862.95 8862.95 8859.41 8855.54 8855.64 8855.87 8854.99 8854.11 8853.22 8852.34 8853.22 8852.34 8854.91 8847.91 8847.91 8847.93 8848.80 8848.80 8847.91 8847.91 8847.91 8847.91 8848.80 8848.80 8848.80 8848.80 8849.81 8849.81 8840.84 8843.89 8843.89 8840.84 8840.84 8840.84 8840.84 8840.84 8840.84	491.56 491.38 491.20 491.02 490.86 490.48 490.30 490.12 489.76 489.78 489.58 489.39 489.21 489.03 488.85 488.49 488.31 488.13 487.95 487.77 487.59 487.41 487.23 486.68 486.68 486.68 486.50 486.52 486.14 485.96 485.78	-5249.61 -5349.60 -5449.60 -5449.59 -5649.59 -5849.58 -5949.58 -6049.57 -6149.57 -6349.56 -6549.55 -6649.55 -6649.55 -6749.54 -7049.53 -7149.53 -7249.52 -7349.52 -7349.52 -749.51 -7649.51 -7649.51 -7649.51 -7649.51 -7649.51 -7849.50 -7849.50 -7849.49 -8149.49 -8149.48 -8349.48	5265.07 5364.98 5464.89 5564.70 5764.61 5864.52 5964.43 6064.34 6164.26 6264.16 6364.07 6463.97 6563.88 6663.79 6763.70 6863.61 6963.52 7063.43 7163.33 7263.24 7363.15 7463.06 7562.97 7662.88 7762.79 7862.69 7962.69 7962.69	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
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00.00 90 00.00 90	0.51 0.51	269.90 269.90	8862.95 8862.07 8861.18 8860.30 8859.41 8856.76 8855.87 8854.99 8854.11 8853.22 8852.34 8851.45 8850.57 8849.68 8844.81 8847.03 8847.01 8847.03 8844.81 8843.49 8842.61 8841.72 8840.84	490.84 490.66 490.48 490.30 490.12 489.94 489.76 489.58 489.39 488.21 489.03 488.67 488.49 488.31 488.13 487.95 487.77 487.59 487.41 487.23 487.65 486.68 486.68 486.68 486.52 486.14 485.96 485.78	-5649.59 -5749.59 -5849.58 -5949.58 -5949.57 -6149.57 -6249.57 -6349.56 -6449.55 -6649.55 -6649.54 -7049.53 -7149.53 -7249.52 -7349.52 -7349.52 -7449.52 -749.51 -7649.51 -7649.51 -7649.51 -7649.50 -7849.50 -7849.49 -8249.48 -8349.48	5664.70 5764.61 5864.52 5964.43 6064.34 6164.25 6264.16 6364.07 6463.97 6563.88 6663.79 6763.70 6863.61 6963.52 7063.43 7163.33 7263.24 7363.15 7463.06 7562.97 7662.88 7762.79 7862.69 7962.60 8062.51 8162.42 8262.33	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
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00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90	0.51 0.51 0.51 0.51	269.90 269.90 269.90 269.90	8839.95 8839.07 8838.18	486.14 485.96 485.78	-8249.48 -8349.48	8262.33	0.00	
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00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90	0.51	269.90			-8449.48		0.00	
00.00 90 00.00 90 00.00 90 00.00 90 00.00 90 00.00 90			8837.30	185 60		8462.15	0.00	
00.00 90 00.00 90 00.00 90 00.00 90 00.00 90	0.51	269.90		403.00	-8549.47	8562.05	0.00	
00.00 90 00.00 90 00.00 90 00.00 90			8836.42	485.42	-8649.47	8661.96	0.00	
00.00 90 00.00 90 00.00 90 00.00 90	0.51	269.90	8835.53	485.24	-8749.46	8761.87	0.00	
00.00 90 00.00 90 00.00 90	0.51	269.90	8834.65	485.06	-8849.46	8861.78	0.00	
00.00 90 00.00 90	0.51	269.90	8833.76	484.88	-8949.46	8961.69	0.00	
00.00 90	0.51	269.90	8832.88	484.70	-9049.45	9061.60	0.00	
	0.51	269.90	8831.99	484.51	-9149.45	9161.51	0.00	
00 00 90	0.51	269.90	8831.11	484.33	-9249.44	9261.42	0.00	
	0.51	269.90	8830.22	484.15	-9349.44	9361.32	0.00	
	0.51	269.90	8829.34	483.97	-9449.43	9461.23	0.00	
	0.51	269.90	8828.45	483.79	-9549.43	9561.14	0.00	
	0.51	269.90	8827.57	483.61	-9649.43	9661.05	0.00	
	0.51	269.90	8826.69	483.43	-9749.42	9760.96	0.00	
	0.51	269.90	8825.80	483.25	-9849.42	9860.87	0.00	
	0.51	269.90	8824.92	483.07	-9949.41	9960.78	0.00	
	0.51	269.90	8824.03	482.89	-10049.41		0.00	
	0.51	269.90	8823.15	482.71	-10149.41 -10249.40		0.00	
	0.51 0.51	269.90 269.90	8822.26 8821.38	482.53 482.35	-10249.40 -10349.40		0.00	
	0.51	269.90	8820.49	482.35	-10349.40		0.00	
	0.51	269.90	8819.61	482.16	-10449.39		0.00	
	0.51	269.90	8818.72	481.80	-10549.39		0.00	
	0.51	269.90	8817.84	481.62	-10049.39		0.00	
	0.51	269.90	8816.96	481.44	-10849.38		0.00	
	0.51	269.90	8816.07	481.26	-10949.37		0.00	
	0.51	269.90	8815.19	481.08	-11049.37		0.00	
	0.51	269.90	8814.30	480.90	-11149.37		0.00	
	0.51	269.90	8813.42	480.72	-11249.36		0.00	
	0.51	269.90	8812.53	480.54	-11349.36		0.00	
	0.51	269.90	8811.65	480.36	-11449.35		0.00	
	0.51	269.90	8810.76	480.18	-11549.35		0.00	
	0.51	269.90	8809.88	480.00	-11649.35		0.00	
	0.51	269.90	8808.99	479.82	-11749.34		0.00	
	0.51	269.90	8808.11	479.63	-11849.34		0.00	
		269.90	8807.72	479.56	-11893.37		0.00	exit
00.00 90	0.51	269.90	8807.23	479.45	-11949.33	11958.95	0.00	

devon

Well: CEDAR HILLS 15-16 STATE COM 332H

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)

Comment	DLS	VS	EW	NS	TVD	AZI	INC	MD
 Comment	(°/100ft)	(ft)	(ft)	(ft)	(ft)	(°)	(°)	(ft)
BHL	0.00	11982.97	-11973.37	479.45	8807.00	269.90	90.51	19424.04



Devon Energy Center

333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

Hydrogen Sulfide (H₂S) Contingency Plan

For

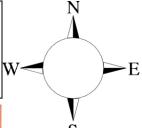
Cedar Hills 15-16 State Com 332H

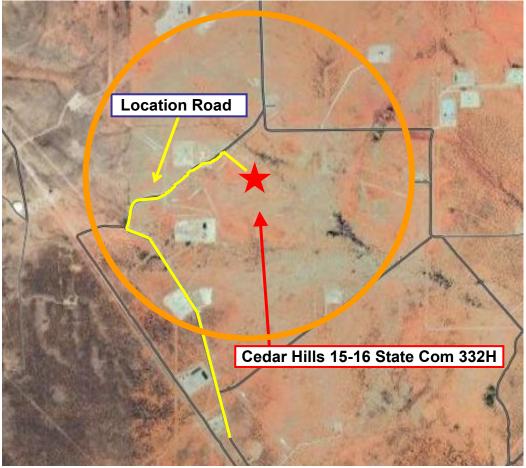
Sec-14 T-21S R-27E 1929' FNL & 1395' FWL LAT. = 32.482206' N (NAD83) LONG = 104.164568' W

Eddy County NM

Cedar Hills 15-16 State Com 332H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.





Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H2S 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 H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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
 - o Detection of H₂S, and
 - Measures for protection against the gas,
 - o 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 (SO₂). 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 H₂S and SO₂

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit	mazaruous Limit	Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	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 (H2S) 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 (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S 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 H₂S 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 H₂S Drilling Operations Plan.

There will be weekly H₂S and well control drills for all personnel in each crew.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S 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 H₂S.

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. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S 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 H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.

B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

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

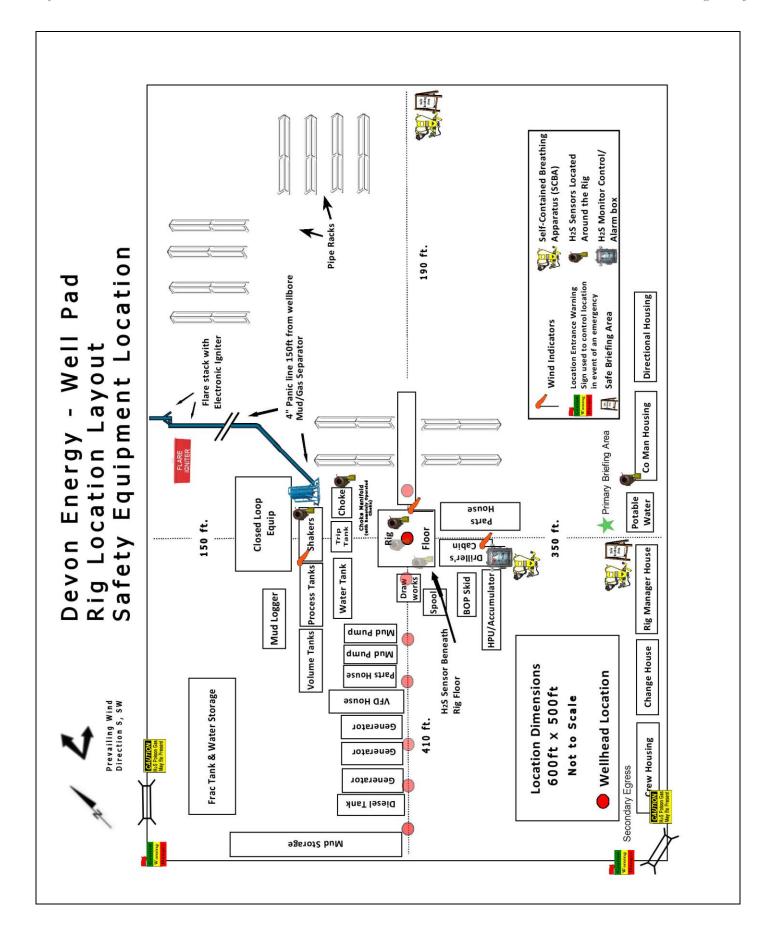
7. Well testing:

- 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 H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List							
Employee/Company Contact Representative	Position	Phone Number	After Hours Number				
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				

Agency	Call List	
Lea	Hobbs	
County		397-9265
(575)	Lea County Communication Authority State Police	885-3138
(0.0)	City Police	397-9265
	Sheriff's Office	396-3611
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management (Closed)	393-0002
	3 (,	
Eddy	Carlsbad	
County	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	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
	Emergency Services	
	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
Give	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
GPS	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
position:	For Air Ambulance - Lea County (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118

Prepared in conjunction with Dave Small



1. Geologic Formations

TVD of target	8808	Pilot hole depth	N/A
MD at TD:	19424	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	0	Zone:	
Top of Salt (Tansill)	202		
Base of Salt	359		
Capitan	599		
Delaware	2902		
Brushy Canyon	4127		
1st Bone Spring Lime	5397		
1st Bone Spring Sand	6611		
2nd Bone Spring Sand	7354		
3rd Bone Spring Lime	7703		
3rd Bone Spring Sand	8615		
_		·	
_		·	
_		·	
*1100			

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

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	60 MD	0	60 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	550 MD	0	550 TVD
9 7/8	8 5/8	32.0	P110ICY	441	0	2950	0	2950
7 7/8	5 1/2	20.0	P110CY	461	0	19424 MD	0	8808 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	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	81	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	4	Surf	9	3.27	Lead: Class C Cement + additives
IIIt	101	50	13.2	1.44	Tail: Class H / C + additives
Int 1	97	Surf	9	3.27	Lead: Class C Cement + additives
III I	67	2450	13.2	1.44	Tail: Class H / C + additives
Int 1	221	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	97	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	67	2450	13.2	1.44	Tail: Class H / C + additives
Production	468	550	9	3.27	Lead: Class H /C + additives
Froduction	1436	8572	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 Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. 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. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following

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

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements

4. Pressure Control Equipment (Four String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		~	Tested to:											
			Anı	nular	X	50% of rated working pressure											
Int	13-5/8"	5M	Bline	l Ram	X												
Int	13-3/6	JIVI	Pipe	Ram		5M											
			Doub	le Ram	X	3141											
			Other*														
	13-5/8"		Annul	ar (5M)	X	100% of rated working pressure											
Total 1		53.4	Blind Ram		X												
Int 1		5M Pipe		Pipe Ram		53.4											
														Doub	le Ram	X	5M
			Other*			1											
			Annul	ar (5M)	X	100% of rated working pressure											
Production	13-5/8"	13-5/8" 5M	51/	Bline	l Ram	X											
Floduction			JIVI	Pipe	Ram		5M										
				Doub	le Ram	X	3101										
			Other*														
N A variance is requested for	r the use of a	diverter or	n the surface	casing. See	attached for	schematic.											
N A variance is requested to	A variance is requested to run a 5 M annular on a 10M system																

5. Mud Program (Four String Design)

Section	Туре	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, Co	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
X	Completion Report and sbumitted 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	Specfiy what type and where?
BH pressure at deepest TVD	4809
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S 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 H2S is present
Y H2S 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. A that time an approved BOP stack will be nippled 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	
X	Directional Plan
	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 EN	NERGY PRODUC	CTION COMPANY, LP	OGRID:	6137	Date:	4 / 28 / 2025		
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 be recompleted from a si					wells proposed to	be drilled or proposed to		
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D		
See attachment								
V. Anticipated Schedul proposed to be recomple Well Name					Initial F			
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.								

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. \square 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 natur	al gas gathering system	\square will \square will n	ot have capacity to	gather 100%	of the anticipated	natural gas
production volume from the we	ell prior to the date of fir	st production.				

XIII. Line Pressure. Operator \square does \square 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).

A 440 ala 4	Onerator's nlar			:	4-41		1:
 - A Hach t	Operator's plan	i io manage	nroanchon	in response	TO THE	increased	line pressure

XIV. Confidentiality: \sqcup Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information pro	vided 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 info	ormation
for which confidentiality is asserted and the basis for such assertion.	

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:
CEDAR HILLS 15-16 STATE COM 332H	n/a	14-21S-27E, 1929 FNL & 1395 FWL	(+/-)2194mcfd/(+/-)973bopd/(+/-)2965bwpd	CEDAR HILLS 15 CTB 1
CEDAR HILLS 15-16 STATE COM 335H	n/a	14-21S-27E, 590 FSL & 1103 FWL	(+/-)2194mcfd/(+/-)973bopd/(+/-)2965bwpd	CEDAR HILLS 15 CTB 1
CEDAR HILLS 15-16 STATE COM 621H	n/a	14-21S-27E, 1906 FNL & 1415 FWL	(+/-)2995mcfd/(+/-)1245bopd/(+/-)3115bwpd	CEDAR HILLS 15 CTB 1
CEDAR HILLS 15-16 STATE COM 622H	n/a	14-21S-27E, 1951 FNL & 1375 FWL	(+/-)2995mcfd/(+/-)1245bopd/(+/-)3115bwpd	CEDAR HILLS 15 CTB 1
CEDAR HILLS 15-16 STATE COM 623H	n/a	14-21S-27E, 620 FSL & 1103 FWL	(+/-)2995mcfd/(+/-)1245bopd/(+/-)3115bwpd	CEDAR HILLS 15 CTB 1
CEDAR HILLS 15-16 STATE COM 624H	n/a	14-21S-27E, 560 FSL & 1103 FWL	(+/-)2995mcfd/(+/-)1245bopd/(+/-)3115bwpd	CEDAR HILLS 15 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.

				Completion		
				Commencement		
Well Name	API	Spud Date	TD Reached Date	Date	Initial Flow back Date	First Production Date
CEDAR HILLS 15-16 STATE COM 332H	n/a	11/28/2025	12/28/2025	4/27/2026	4/27/2026	4/27/2026
CEDAR HILLS 15-16 STATE COM 335H	n/a	11/15/2025	12/15/2025	4/14/2026	4/14/2026	4/14/2026
CEDAR HILLS 15-16 STATE COM 621H	n/a	11/13/2025	12/13/2025	4/12/2026	4/12/2026	4/12/2026
CEDAR HILLS 15-16 STATE COM 622H	n/a	10/29/2025	11/28/2025	3/28/2026	3/28/2026	3/28/2026
CEDAR HILLS 15-16 STATE COM 623H	n/a	10/31/2025	11/30/2025	3/30/2026	3/30/2026	3/30/2026
CEDAR HILLS 15-16 STATE COM 624H	n/a	12/1/2025	12/31/2025	4/30/2026	4/30/2026	4/30/2026

^{*} Dates subject to change

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. \square 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;
- (t) 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 Esmail Address: : Compile Odorn and					
Title: Surface Land & Regulatory Manager					
E-mail Address: jeff.walla@dvn.com					
Date:					
Phone: (405) 552-8154					
OIL CONSERVATION DIVISION					
(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
 - o 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.



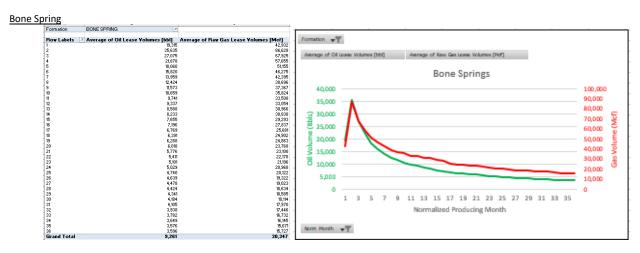
Devon Energy Production Company, L.P. 333 W. Sheridan Avenue Oklahoma City, Oklahoma 73102 Phone: (405) 228-4800

WASTE MINIMIZATION PLAN

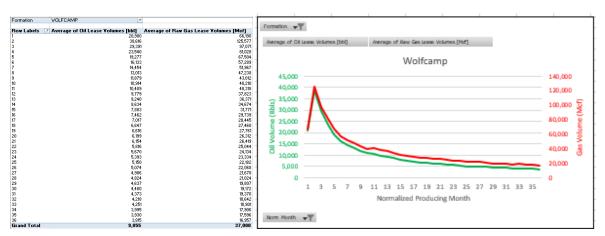
Per 89 FR 25378 - Waste Prevention, Production Subject to Royalties, and Resource Conservation, requirements:

- (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.



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

Offline Cementing

Variance Request

Devon Energy requests to offline cement on intermediate 1 strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.