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 390799

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

Operator Name and Address	2. OGRID Number	
DEVON ENERGY PRODUCTION CO	6137	
333 West Sheridan Ave.	3. API Number	
Oklahoma City, OK 73102	30-025-54804	
4. Property Code	6. Well No.	
335061	218H	

7. Surface Location

OL - LOI	10	23S	33E	Lot Idii	550	N/S LINE	1830	E/W Lille	County
Ь	10	233	33E		550	IN	1630		Lea
			:	8. Proposed Bo	ttom Hole Location	1			
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P P	15	238	33E	P	20	S	700	Ε	Lea

9. Pool Information

BRINNINSTO	LIBUNE SPRING	'320

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3601
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	21583	Bone Spring		10/20/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

${\ensuremath{\overline{\boxtimes}}}$ 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	1162	879	0
Int1	12.25	9.625	40	5206	724	0
Prod	8.75	5.5	20	21583	2605	4706

Casing/Cement Program: Additional Comments

Please see attached drill plan for Int 1 Intermediate Squeeze info.

22. Proposed Blowout Prevention Program

	opoccu		
Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	
Blind	5000	5000	
Annular	5000	5000	
Annular	5000	5000	
Blind	5000	5000	
Double Ram	5000	5000	

knowledge and b	pelief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Jeff Walla		Approved By:	Jeffrey Harrison	
Title:	Supervisor Land		Title:	Petroleum Specialist III	
Email Address:	Jeff.Walla@dvn.com		Approved Date:	7/7/2025	Expiration Date: 7/7/2027
Date:	5/22/2025	Phone: 575-748-9925	Conditions of App	roval Attached	

<u>C-1</u>					ls & Natur	New Mexico al Resources FION DIV				Rev	rised July, 2024
	Electronically D Permitting									▼ Initial Submittal	
via OCI	D I crimiting								Submittal		
									Type:	Amended Repor	ι
									As Drilled		
					ELL LOCAT	ION INFORM	ATION	1			
		5-54804	Pool Cod	7320		Pool Name	BRINI	NINSTOO	L;BONE		
•	erty Code	335061	Property		NORTH TH	STLE 10 STAT	TE CO	M		Well Number 218H	
OGRII	0 No. 6137		Operator		N ENERGY I	PRODUCTION C	COMPA	NY, L.P.		Ground Level 3600.8'	Elevation
Surfa	ce Owner:	XIState □	Fee Tril	bal □Fe	deral	Mineral Ov	wner:	XState [⊒Fee □7	ribal □Federal	
					C	for Instinct					
UL	Section	Township	Panas	Lot		face Location /S Ft. from I	r/w	Latitude		Longitude	Countr
			Range	TOC	550' N	75 Ft. 170m 1 1830'				_	County
В	10	23-S	33-E		N OGG	1830	Е	32.3249	983	103.557609	LEA
					Botto	m Hole Locatio	on				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from I	E/W	Latitude		Longitude	County
P	15	23-S	33-E		20' S	700'	E	32.297	511	103.553939	LEA
	1	L	L								
Dedicat	ted Acres	Infill or Def	ining Well	Defining	Well API Ove	rlapping Spacin	g Unit	(Y/N)	Consolida	ation Code	
	60		X			Y	_	(-,-,		C	
			42						0 1		
Uraer	Numbers				Mei	l setbacks are	under	Common	Ownersh	ıp: ⊠ites ⊔No	
					Kick 0	ff Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N		E/W	Latitude		Longitude	County
	10	23-S	33-E	Loc	50' N	700	•	32.326		103.553950	LEA
A	10	20-3	33-E		30 N	700	E	J&.J&C	304	103.555950	LEA
	1		1			ake Point (FTP					
UL	Section	Township	Range	Lot	Ft. from N	'		Latitude		Longitude	County
A	10	23-S	33-E		100' N	700'	E	32.326	227	103.553950	LEA
			1	1	Last T	ake Point (LTP))			·	
UL	Section	Township	Range	Lot	Ft. from N			Latitude		Longitude	County
P	10	23-S	33-E	200	100' S	700	<i>'</i>	32.312		103.553946	LEA
Г	10	20-5	99-E		100 5	100	ь	UN.UIN		100.000040	LLIA
					Spacing	Unit Type Ho	orizonta X	al Vertic	eal G	round Floor Ele	vation:
-					1		نغت				
	TOR CERTI					SURVEYOR CE	RTIFICA	TIONS			
					omplete to the best onal well, that this		at the well	location sho	wn on this p	lat was plotted from fiel	ld notes
					terest in the land	of actual surveys n	nade by m	ie or under st		nd that the same is true	and
includin	g the proposed	bottom hole loc	ation or has a r	right to drill	this well at this	correct to the best	ot my bel	iet.		OT R.	DEHOLOS
		contract with an a voluntary pooli			or unleased sory pooling order					BER	140r
	ore entered by t		2 0	1	5	1				EN MEX	10 S
If this well is a horizontal well, I further certify that this organization has received the					e				/ / **/	10/	
consent	of at least one	lessee or owner	of a working in	nterest or unl	eased mineral					23261	
					part of the well's					\ Z\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1 /2 /
division.		oc located of of	лашей а сотр	uisory pooli	ng order from the	1				/ of /	1/2/
										150	187
Signa	ature		Date			Signature and	i Seal	of Profes	sional S	urveyor ONAL	50
D	1/01/11	Dehl		<i>5</i> /22	/2025						
Duint	ted Name			3/22	2/2025	Contidinate N	ma b a	D-4- 2 1	3		
		al, Regula	atory An	alvst		Certificate Nu	unoer	Date of S	ourvey		
	il Address	, 1.05410	1111	, 50		23261		04/20	25		
	ecca dea	nm					,	-			

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.

NORTH THISTLE 10 STATE COM 218H
GEODETIC COORDINATES NAD 83
NMSP EAST SURFACE LICATION
550' FNL 1830' FEL SECTION 10
EL: 360.87
N.482828.57/E:780954.05
LAT;32.324983/LDN:103.557609

KICK DEF POINT

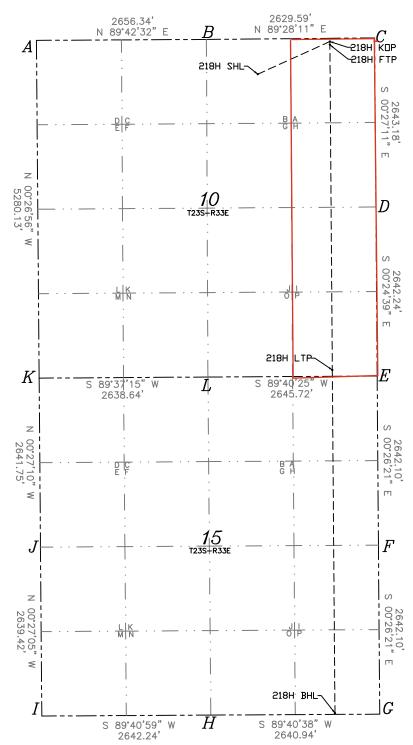
KICK DFF PDINT 50' FNL 700' FEL SECTION 10 N:483339.02/E:782080.52 LAT:32.326364/LDN:103.553950

FIRST TAKE PUINT 100' FNL 700' FEL SECTION 10 N:483289.02/E:782080.92 LAT:32.326227/LON:103.553950

LAST TAKE POINT

100' FSL 700' FEL SECTION 10
N:478206.23/E:782119.24
LAT:32.312255/LDN:103.553946

BOTTOM HOLE LOCATION 20' FSL 700' FEL SECTION 15 N:472842.24/E:782160.31 LAT:32.297511/LON:103.553939



A = N:483357.66 E:777494.32
B = N:483371.16 E:780150.63
C = N:483395.50 E:782780.10
D = N:478110.23 E:782819.94
F = N:475468.20 E:782840.20
G = N:472826.18 E:782860.45
H = N:472796.69 E:777577.35
J = N:472796.69 E:777577.35
K = N:478077.69 E:777535.68
L = N:478095.15 E:780174.27

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 APD Comments

Permit 390799

PERMIT COMMENTS

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-025-54804
333 West Sheridan Ave.	Well:
Oklahoma City, OK 73102	NORTH THISTLE 10 STATE COM #218H

Created By	Comment	Comment Date
rdeal	Only completing the first mile of well, production from Sec 10.	5/22/2025
jeffrey.harrison	Defining well for HSU	7/1/2025
	At time of approval of original permit, proposed well design is to complete and produce from the portion of the well contained in section 10 and to use the portion of the lateral in section 15 for data collection/observation.	7/7/2025

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 APD Conditions

Permit 390799

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
DEVON ENERGY PRODUCTION COMPANY, LP [6137]	30-025-54804
333 West Sheridan Ave.	Well:
Oklahoma City, OK 73102	NORTH THISTLE 10 STATE COM #218H

OCD Reviewer	Condition
jeffrey.harrison	Prior to any completion activities for the data observation portion of the lateral penetrating Units A-H-I-P of section 15 of 23S 33E, please submit a C-103 NOI Change of Plans as well as a separate C-104 completion report.
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.
jeffrey.harrison	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.
jeffrey.harrison	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.

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 <u>Effective May 25, 2021</u>

I. Operator: Devon En	ergy Productio	n Company, L.P.	OGRID:	6137	Date:	4 / 22	2 / 2025	
II. Type: ☑ Original □	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D(6)(b) NMAC □	Other.		
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s					wells proposed to	be drill	ed or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated oduced Water BBL/D	
See Attached								
V. Anticipated Schedul proposed to be recomple Well Name	le: Provide the		ion for each nev	v or recompleted w	vell or set of well	s propos	.9(D)(1) NMAC] ed to be drilled or First Production Date	
See Attached								
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 natural gas gathering system	\square will \square will not have	capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of first	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).

l Attach (Onerator's nla	an to manao	e production i	n response to	o the increase	d line pressure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides the information provide	ded 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 inform	nation
for which confidentiality is asserted and the basis for such assertion.	

(h)

(i)

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 ☐ 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: power generation on lease; (a) power generation for grid; **(b)** (c) compression on lease; (d) liquids removal on lease; (e) reinjection for underground storage; **(f)** reinjection for temporary storage; reinjection for enhanced oil recovery; (g)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

fuel cell production; and

- (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: Jeff Walla							
Title: Surface Land and Regulatory Manager							
E-mail Address:							
Date:							
Phone:							
OIL CONSERVATION DIVISION							
(Only applicable when submitted as a standalone form)							
Approved By:							
Title:							
Approval Date:							
Conditions of Approval:							

PARSELTONGUE 10 CTB 2

Well Name	API	SHL - STR & Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
NORTH THISTLE 10 STATE COM 218H		10-23S-33E, 550 FNL & 1830 FEL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
NORTH THISTLE 15-10 STATE COM 205H		10-23S-33E, 176 FNL & 1393 FWL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
NORTH THISTLE 15-10 STATE COM 206H		10-23S-33E, 176 FNL & 1453 FWL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
NORTH THISTLE 15-10 STATE COM 207H		10-23S-33E, 550 FNL & 1920 FEL	(+/-)1075bopd, (+/-) 836mcfd/, (+/-)2043b		
NORTH THISTLE 15-10 STATE COM 208H		10-23S-33E, 550 FNL & 1860 FEL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
NORTH THISTLE 15-10 STATE COM 215H		10-23S-33E, 176 FNL & 1423 FWL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
NORTH THISTLE 15-10 STATE COM 216H		10-23S-33E, 176 FNL & 1483 FWL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
NORTH THISTLE 15-10 STATE COM 217H		10-23S-33E, 550 FNL & 1890 FEL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
PARSELTONGUE 15-10 STATE COM 900H		10-23S-33E, 176 FNL & 1363FWL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd
PARSELTONGUE 15-10 STATE COM 906H		10-23S-33E, 550 FNL & 1800 FEL	(+/-)1075bop	d, (+/-) 836mcfd/, (+/-)2043bwpd

Well Name	API	Anticipated Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
NORTH THISTLE 10 STATE COM 218H		10/20/25	11/19/2025	3/19/2026	3/19/2026	3/19/2026
NORTH THISTLE 15-10 STATE COM 205H		10/13/25	11/12/2025	3/12/2026	3/12/2026	3/12/2026
NORTH THISTLE 15-10 STATE COM 206H		09/26/25	10/26/2025	2/23/2026	2/23/2026	2/23/2026
NORTH THISTLE 15-10 STATE COM 207H		09/09/25	10/9/2025	2/6/2026	2/6/2026	2/6/2026
NORTH THISTLE 15-10 STATE COM 208H		09/26/25	10/26/2025	2/23/2026	2/23/2026	2/23/2026
NORTH THISTLE 15-10 STATE COM 215H		09/12/25	10/12/2025	2/9/2026	2/9/2026	2/9/2026
NORTH THISTLE 15-10 STATE COM 216H		08/28/25	9/27/2025	1/25/2026	1/25/2026	1/25/2026
NORTH THISTLE 15-10 STATE COM 217H		10/13/25	11/12/2025	3/12/2026	3/12/2026	3/12/2026
PARSELTONGUE 15-10 STATE COM 900H		10/24/25	11/23/2025	3/23/2026	3/23/2026	3/23/2026
PARSELTONGUE 15-10 STATE COM 906H		10/27/25	11/26/2025	3/26/2026	3/26/2026	3/26/2026



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

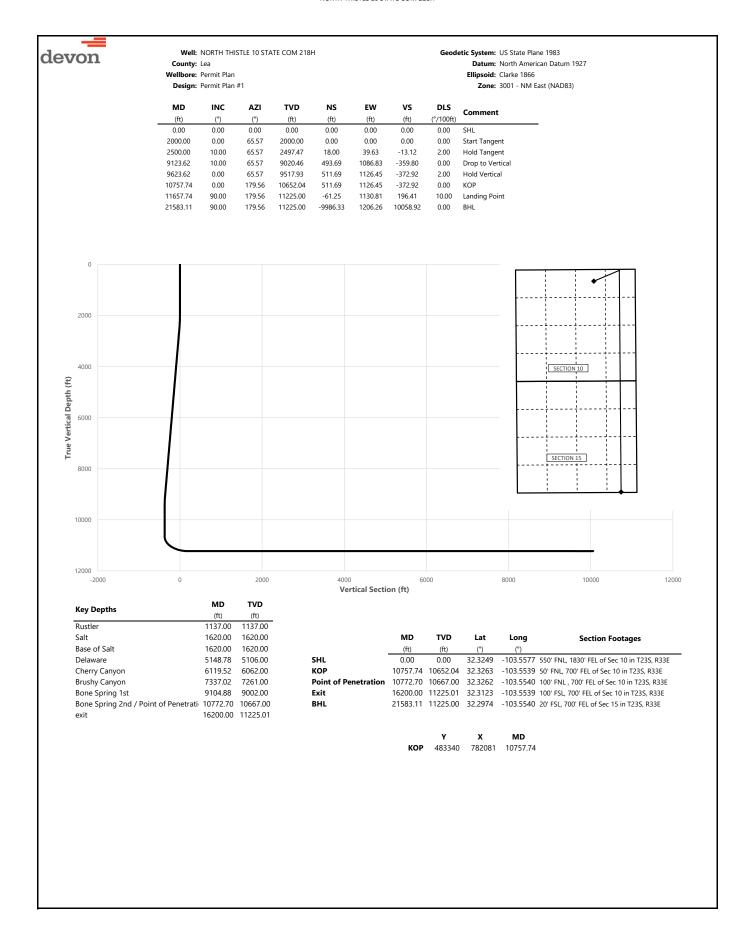
Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- 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		Well:	NORTH TH	ISTLE 10 STA	TE COM 218H				Geodetic System: US State Plane 1983
ae voii		County:							Datum: North American Datum 1927
		Wellbore:							Ellipsoid: Clarke 1866
		Design:	Permit Plan	ı #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS (fr)	EW	VS (fr)	DLS	Comment
_	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	CIII
	0.00	0.00	0.00 65.57	0.00	0.00	0.00	0.00	0.00	SHL
	100.00 200.00	0.00	65.57 65.57	100.00	0.00	0.00	0.00	0.00	
	300.00	0.00	65.57 65.57	200.00 300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	65.57	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	65.57	500.00	0.00	0.00	0.00	0.00	
	600.00	0.00	65.57	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	65.57	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	65.57	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	65.57	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	65.57	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	65.57	1100.00	0.00	0.00	0.00	0.00	
	1137.00	0.00	65.57	1137.00	0.00	0.00	0.00	0.00	Rustler
	1200.00	0.00	65.57	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	65.57	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	65.57	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	65.57	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	65.57	1600.00	0.00	0.00	0.00	0.00	
	1620.00	0.00	65.57	1620.00	0.00	0.00	0.00	0.00	Salt, Base of Salt
	1700.00	0.00	65.57	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	65.57	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	65.57	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	65.57	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	65.57	2099.98	0.72	1.59	-0.53	2.00	
	2200.00	4.00	65.57	2199.84	2.89	6.35	-2.10	2.00	
	2300.00	6.00	65.57	2299.45	6.49	14.29	-4.73	2.00	
	2400.00	8.00	65.57	2398.70	11.53	25.38	-8.40	2.00	
	2500.00	10.00	65.57	2497.47	18.00	39.63	-13.12	2.00	Hold Tangent
	2600.00	10.00	65.57	2595.95	25.18	55.44	-18.35	0.00	
	2700.00 2800.00	10.00	65.57	2694.43 2792.91	32.36 39.55	71.25 87.06	-23.59	0.00	
	2900.00	10.00 10.00	65.57 65.57	2891.39	46.73	102.87	-28.82 -34.05	0.00	
	3000.00	10.00	65.57	2989.87	53.91	118.68	-34.03	0.00	
	3100.00	10.00	65.57	3088.35	61.09	134.49	-44.52	0.00	
	3200.00	10.00	65.57	3186.83	68.27	150.30	-49.76	0.00	
	3300.00	10.00	65.57	3285.31	75.45	166.11	-54.99	0.00	
	3400.00	10.00	65.57	3383.79	82.64	181.92	-60.22	0.00	
	3500.00	10.00	65.57	3482.27	89.82	197.73	-65.46	0.00	
	3600.00	10.00	65.57	3580.75	97.00	213.54	-70.69	0.00	
	3700.00	10.00	65.57	3679.23	104.18	229.35	-75.93	0.00	
	3800.00	10.00	65.57	3777.72	111.36	245.16	-81.16	0.00	
	3900.00	10.00	65.57	3876.20	118.54	260.97	-86.39	0.00	
	4000.00	10.00	65.57	3974.68	125.73	276.78	-91.63	0.00	
	4100.00	10.00	65.57	4073.16	132.91	292.59	-96.86	0.00	
	4200.00	10.00	65.57	4171.64	140.09	308.40	-102.10	0.00	
	4300.00	10.00	65.57	4270.12	147.27	324.21	-107.33	0.00	
	4400.00	10.00	65.57	4368.60	154.45	340.02	-112.56	0.00	
	4500.00	10.00	65.57	4467.08	161.64	355.83	-117.80	0.00	
	4600.00	10.00	65.57	4565.56	168.82	371.64	-123.03	0.00	
	4700.00	10.00	65.57	4664.04	176.00	387.45	-128.27	0.00	
	4800.00	10.00	65.57	4762.52	183.18	403.26	-133.50	0.00	
	4900.00	10.00	65.57	4861.00	190.36	419.07	-138.73	0.00	
	5000.00	10.00	65.57	4959.48	197.54	434.88	-143.97	0.00	
	5100.00	10.00	65.57	5057.97 5106.00	204.73	450.69	-149.20 151.75	0.00	Dolawara
	5148.78 5200.00	10.00	65.57 65.57	5106.00	208.23	458.40 466.50	-151.75 -154.44	0.00	Delaware
	5200.00	10.00	65.57 65.57		211.91	466.50	-154.44 -159.67		
	5400.00	10.00 10.00	65.57 65.57	5254.93 5353.41	219.09 226.27	482.31 498.12	-159.67 -164.90	0.00	
	5500.00	10.00	65.57	5451.89	233.45	513.93	-164.90	0.00	
	5600.00	10.00	65.57	5550.37	240.64	529.74	-170.14	0.00	
	5700.00	10.00	65.57	5648.85	240.82	545.55	-175.57	0.00	
	5800.00	10.00	65.57	5747.33	255.00	561.36	-185.84	0.00	
	5900.00	10.00	65.57	5845.81	262.18	577.17	-191.07	0.00	
	6000.00	10.00	65.57	5944.29	269.36	592.98	-191.07	0.00	
	6100.00	10.00	65.57	6042.77	276.54	608.79	-201.54	0.00	
	6119.52	10.00	65.57	6062.00	277.95	611.88	-202.56	0.00	Cherry Canyon
	6200.00	10.00	65.57	6141.25	283.73	624.60	-206.78	0.00	•
	6300.00	10.00	65.57	6239.73	290.91	640.41	-212.01	0.00	
	6400.00	10.00	65.57	6338.22	298.09	656.22	-217.24	0.00	
	6500.00	10.00	65.57	6436.70	305.27	672.03	-222.48	0.00	
-									



Well: NORTH THISTLE 10 STATE COM 218H

County: Lea 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:							
MD	INC	AZI	TVD	NS	EW	vs	DLS	•
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6600.00	10.00	65.57	6535.18	312.45	687.84	-227.71	0.00	
6700.00	10.00	65.57	6633.66	319.63	703.65	-232.95	0.00	
6800.00	10.00	65.57	6732.14	326.82	719.46	-238.18	0.00	
6900.00	10.00	65.57	6830.62	334.00	735.27	-243.41	0.00	
7000.00	10.00	65.57	6929.10	341.18	751.08	-248.65	0.00	
7100.00	10.00	65.57	7027.58	348.36	766.89	-253.88	0.00	
7200.00	10.00	65.57	7126.06	355.54	782.70	-259.12	0.00	
7300.00	10.00	65.57	7224.54	362.73	798.51	-264.35	0.00	
7337.02	10.00	65.57	7261.00		804.36	-266.29	0.00	Prushy Canyon
				365.38		-269.58	0.00	Brushy Canyon
7400.00 7500.00	10.00	65.57	7323.02	369.91	814.32			
	10.00	65.57	7421.50	377.09	830.13	-274.82	0.00	
7600.00	10.00	65.57	7519.99	384.27	845.94	-280.05	0.00	
7700.00	10.00	65.57	7618.47	391.45	861.75	-285.29	0.00	
7800.00	10.00	65.57	7716.95	398.63	877.56	-290.52	0.00	
7900.00	10.00	65.57	7815.43	405.82	893.37	-295.75	0.00	
8000.00	10.00	65.57	7913.91	413.00	909.18	-300.99	0.00	
8100.00	10.00	65.57	8012.39	420.18	924.99	-306.22	0.00	
8200.00	10.00	65.57	8110.87	427.36	940.80	-311.46	0.00	
8300.00	10.00	65.57	8209.35	434.54	956.61	-316.69	0.00	
8400.00	10.00	65.57	8307.83	441.72	972.42	-321.92	0.00	
8500.00	10.00	65.57	8406.31	448.91	988.23	-327.16	0.00	
8600.00	10.00	65.57	8504.79	456.09	1004.04	-332.39	0.00	
8700.00	10.00	65.57	8603.27	463.27	1019.85	-337.63	0.00	
8800.00	10.00	65.57	8701.75	470.45	1035.66	-342.86	0.00	
8900.00	10.00	65.57	8800.24	477.63	1051.47	-348.09	0.00	
9000.00	10.00	65.57	8898.72	484.82	1067.28	-353.33	0.00	
9100.00	10.00	65.57	8997.20	492.00	1083.09	-358.56	0.00	
9104.88	10.00	65.57	9002.00	492.35	1083.86	-358.82	0.00	Bone Spring 1st
9123.62	10.00	65.57	9020.46	493.69	1086.83	-359.80	0.00	Drop to Vertical
9200.00	8.47	65.57	9095.85	498.76	1097.99	-363.49	2.00	brop to vertical
9300.00	6.47	65.57	9194.99	504.14	1109.83	-367.41	2.00	
9400.00	4.47	65.57	9294.53	508.09	1118.51	-370.29	2.00	
			9394.34					
9500.00	2.47	65.57		510.59	1124.02	-372.11	2.00	
9600.00	0.47	65.57	9494.30	511.65	1126.36	-372.89	2.00	Haldy at all
9623.62	0.00	65.57	9517.93	511.69	1126.45	-372.92	2.00	Hold Vertical
9700.00	0.00	179.56	9594.30	511.69	1126.45	-372.92	0.00	
9800.00	0.00	179.56	9694.30	511.69	1126.45	-372.92	0.00	
9900.00	0.00	179.56	9794.30	511.69	1126.45	-372.92	0.00	
10000.00	0.00	179.56	9894.30	511.69	1126.45	-372.92	0.00	
10100.00	0.00	179.56	9994.30	511.69	1126.45	-372.92	0.00	
10200.00	0.00	179.56	10094.30	511.69	1126.45	-372.92	0.00	
10300.00	0.00	179.56	10194.30	511.69	1126.45	-372.92	0.00	
10400.00	0.00	179.56	10294.30	511.69	1126.45	-372.92	0.00	
10500.00	0.00	179.56	10394.30	511.69	1126.45	-372.92	0.00	
10600.00	0.00	179.56	10494.30	511.69	1126.45	-372.92	0.00	
10700.00	0.00	179.56	10594.30	511.69	1126.45	-372.92	0.00	
10757.74	0.00	179.56	10652.04	511.69	1126.45	-372.92	0.00	KOP
10772.70	1.50	179.56	10667.00	511.50	1126.45	-372.72	10.00	Bone Spring 2nd / Point of Penetration
10800.00	4.23	179.56	10694.26	510.14	1126.46	-371.37	10.00	, 9 .,
10900.00	14.23	179.56	10792.85	494.12	1126.59	-355.46	10.00	
11000.00	24.23	179.56	10732.03	461.24	1126.84	-322.78	10.00	
11100.00	34.23	179.56	10007.13	412.47	1127.21	-322.76	10.00	
11200.00	44.23	179.56	11051.68	349.32	1127.21	-214.52	10.00	
11300.00	54.23	179.56	11116.90	273.69	1128.26	-136.41	10.00	
11400.00	64.23	179.56	11168.00	187.88	1128.92	-51.14	10.00	
11500.00	74.23	179.56	11203.42	94.50	1129.63	41.65	10.00	
11600.00	84.23	179.56	11222.09	-3.61	1130.37	139.14	10.00	Leading Dain
11657.74	90.00	179.56	11225.00	-61.25	1130.81	196.41	10.00	Landing Point
11700.00	90.00	179.56	11225.00	-103.51	1131.13	238.41	0.00	
11800.00	90.00	179.56	11225.00	-203.51	1131.89	337.77	0.00	
11900.00	90.00	179.56	11225.00	-303.50	1132.65	437.14	0.00	
12000.00	90.00	179.56	11225.00	-403.50	1133.41	536.51	0.00	
12100.00	90.00	179.56	11225.00	-503.50	1134.17	635.87	0.00	
12200.00	90.00	179.56	11225.00	-603.49	1134.93	735.24	0.00	
12300.00	90.00	179.56	11225.00	-703.49	1135.69	834.61	0.00	
12400.00	90.00	179.56	11225.00	-803.49	1136.45	933.97	0.00	
12500.00	90.00	179.56	11225.00	-903.49	1137.21	1033.34	0.00	
12600.00	90.00	179.56	11225.00	-1003.48	1137.97	1132.71	0.00	
12700.00	90.00	179.56	11225.00	-1103.48	1138.73	1232.07	0.00	
	90.00	179.56		-1203.48	1139.49	1331.44	0.00	
12800.00								



Well: NORTH THISTLE 10 STATE COM 218H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

	Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12900.00	90.00	179.56	11225.00	-1303.47	1140.26	1430.81	0.00	
13000.00	90.00	179.56	11225.00	-1403.47	1141.02	1530.17	0.00	
13100.00	90.00	179.56	11225.00		1141.78	1629.54	0.00	
13200.00	90.00	179.56		-1603.47	1142.54	1728.91	0.00	
13300.00	90.00	179.56		-1703.46	1143.30	1828.27	0.00	
13400.00	90.00	179.56	11225.00 11225.00	-1803.46 -1903.46	1144.06	1927.64	0.00	
13500.00 13600.00	90.00 90.00	179.56 179.56	11225.00	-2003.45	1144.82 1145.58	2027.01 2126.37	0.00	
13700.00	90.00	179.56	11225.00	-2103.45	1146.34	2225.74	0.00	
13800.00	90.00	179.56		-2203.45	1147.10	2325.11	0.00	
13900.00	90.00	179.56	11225.00	-2303.44	1147.86	2424.47	0.00	
14000.00	90.00	179.56	11225.00	-2403.44	1148.62	2523.84	0.00	
14100.00	90.00	179.56	11225.00	-2503.44	1149.38	2623.21	0.00	
14200.00	90.00	179.56	11225.00	-2603.44	1150.14	2722.57	0.00	
14300.00	90.00	179.56	11225.00	-2703.43	1150.90	2821.94	0.00	
14400.00 14500.00	90.00 90.00	179.56 179.56	11225.00 11225.00	-2803.43 -2903.43	1151.66 1152.42	2921.31 3020.67	0.00	
14600.00	90.00	179.56	11225.00	-3003.42	1153.18	3120.04	0.00	
14700.00	90.00	179.56		-3103.42	1153.94	3219.41	0.00	
14800.00	90.00	179.56	11225.00	-3203.42	1154.70	3318.77	0.00	
14900.00	90.00	179.56	11225.00	-3303.42	1155.46	3418.14	0.00	
15000.00	90.00	179.56	11225.00	-3403.41	1156.22	3517.51	0.00	
15100.00	90.00	179.56	11225.00	-3503.41	1156.99	3616.87	0.00	
15200.00	90.00	179.56	11225.00	-3603.41	1157.75	3716.24	0.00	
15300.00	90.00	179.56	11225.00	-3703.40	1158.51	3815.61	0.00	
15400.00 15500.00	90.00 90.00	179.56 179.56	11225.00 11225.00	-3803.40 -3903.40	1159.27 1160.03	3914.97 4014.34	0.00	
15600.00	90.00	179.56	11225.00	-4003.40	1160.03	4113.71	0.00	
15700.00	90.00	179.56	11225.00	-4103.39	1161.55	4213.07	0.00	
15800.00	90.00	179.56	11225.01	-4203.39	1162.31	4312.44	0.00	
15900.00	90.00	179.56	11225.01	-4303.39	1163.07	4411.81	0.00	
16000.00	90.00	179.56	11225.01	-4403.38	1163.83	4511.17	0.00	
16100.00	90.00	179.56	11225.01	-4503.38	1164.59	4610.54	0.00	
16200.00	90.00	179.56	11225.01	-4603.38	1165.35	4709.91	0.00	exit
16300.00	90.00	179.56	11225.01	-4703.38	1166.11	4809.27	0.00	
16400.00	90.00	179.56	11225.01	-4803.37	1166.87	4908.64	0.00	
16500.00 16600.00	90.00 90.00	179.56 179.56	11225.01 11225.01	-4903.37 -5003.37	1167.63 1168.39	5008.01 5107.37	0.00	
16700.00	90.00	179.56	11225.01	-5103.36	1169.15	5206.74	0.00	
16800.00	90.00	179.56	11225.01	-5203.36	1169.91	5306.11	0.00	
16900.00	90.00	179.56	11225.01	-5303.36	1170.67	5405.47	0.00	
17000.00	90.00	179.56	11225.01	-5403.36	1171.43	5504.84	0.00	
17100.00	90.00	179.56	11225.01	-5503.35	1172.19	5604.21	0.00	
17200.00	90.00	179.56		-5603.35	1172.95	5703.57	0.00	
17300.00	90.00	179.56	11225.01	-5703.35	1173.72	5802.94	0.00	
17400.00	90.00	179.56	11225.01	-5803.34	1174.48	5902.31	0.00	
17500.00 17600.00	90.00 90.00	179.56 179.56	11225.01 11225.01	-5903.34 -6003.34	1175.24 1176.00	6001.67 6101.04	0.00	
17700.00	90.00	179.56	11225.01		1176.76	6200.41	0.00	
17800.00	90.00	179.56	11225.01	-6203.33	1177.52	6299.77	0.00	
17900.00	90.00	179.56	11225.01	-6303.33	1178.28	6399.14	0.00	
18000.00	90.00	179.56	11225.01	-6403.33	1179.04	6498.51	0.00	
18100.00	90.00	179.56	11225.01	-6503.32	1179.80	6597.87	0.00	
18200.00	90.00	179.56	11225.01	-6603.32	1180.56	6697.24	0.00	
18300.00	90.00	179.56	11225.01	-6703.32	1181.32	6796.61	0.00	
18400.00 18500.00	90.00 90.00	179.56 179.56	11225.01 11225.01	-6803.31 -6903.31	1182.08 1182.84	6895.97 6995.34	0.00	
18600.00	90.00	179.56	11225.01	-7003.31	1182.64	7094.71	0.00	
18700.00	90.00	179.56	11225.01	-7103.31	1184.36	7194.07	0.00	
18800.00	90.00	179.56	11225.01	-7203.30	1185.12	7293.44	0.00	
18900.00	90.00	179.56	11225.01	-7303.30	1185.88	7392.81	0.00	
19000.00	90.00	179.56	11225.01	-7403.30	1186.64	7492.17	0.00	
19100.00	90.00	179.56	11225.01	-7503.29	1187.40	7591.54	0.00	
19200.00	90.00	179.56	11225.01	-7603.29	1188.16	7690.91	0.00	
19300.00	90.00	179.56	11225.01	-7703.29	1188.92	7790.27	0.00	
19400.00	90.00	179.56	11225.01	-7803.29	1189.68	7889.64	0.00	
19500.00 19600.00	90.00 90.00	179.56 179.56	11225.01 11225.01	-7903.28 -8003.28	1190.45	7989.01	0.00	
19800.00	90.00	179.56	11225.01	-8003.28 -8103.28	1191.21 1191.97	8088.37 8187.74	0.00	
19800.00	90.00	179.56	11225.01	-8203.27	1191.37	8287.11	0.00	



Well: NORTH THISTLE 10 STATE COM 218H

County: Lea 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)	Comment
19900.00	90.00	179.56	11225.01	-8303.27	1193.49	8386.47	0.00	-
20000.00	90.00	179.56	11225.01	-8403.27	1194.25	8485.84	0.00	
20100.00	90.00	179.56	11225.01	-8503.27	1195.01	8585.21	0.00	
20200.00	90.00	179.56	11225.01	-8603.26	1195.77	8684.57	0.00	
20300.00	90.00	179.56	11225.01	-8703.26	1196.53	8783.94	0.00	
20400.00	90.00	179.56	11225.01	-8803.26	1197.29	8883.31	0.00	
20500.00	90.00	179.56	11225.01	-8903.25	1198.05	8982.67	0.00	
20600.00	90.00	179.56	11225.01	-9003.25	1198.81	9082.04	0.00	
20700.00	90.00	179.56	11225.01	-9103.25	1199.57	9181.41	0.00	
20800.00	90.00	179.56	11225.01	-9203.25	1200.33	9280.77	0.00	
20900.00	90.00	179.56	11225.01	-9303.24	1201.09	9380.14	0.00	
21000.00	90.00	179.56	11225.01	-9403.24	1201.85	9479.51	0.00	
21100.00	90.00	179.56	11225.01	-9503.24	1202.61	9578.87	0.00	
21200.00	90.00	179.56	11225.01	-9603.23	1203.37	9678.24	0.00	
21300.00	90.00	179.56	11225.01	-9703.23	1204.13	9777.61	0.00	
21400.00	90.00	179.56	11225.01	-9803.23	1204.89	9876.97	0.00	
21500.00	90.00	179.56	11225.01	-9903.23	1205.65	9976.34	0.00	
21503.11	90.00	179.56	11225.01	-9906.33	1205.68	9979.43	0.00	
21583.11	90.00	179.56	11225.00	-9986.33	1206.26	10058.92	0.00	BHL



Devon Energy

333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

Hydrogen Sulfide (H₂S) Contingency Plan

For

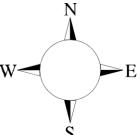
North Thistle 10 State Com 218H

Sec-10, T-23S, R-33E 550' FNL & 1830' FEL LAT. = 32.324983° N (NAD83) LONG = 103.557609° W

Lea County, NM

North Thistle 10 State Com 218H

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 monitors.





Assumed 100 ppm ROE = 3000' (Radius of Exposure) 100 ppm H_2S 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
 - o Measures for protection against the gas, and
 - 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 Highway 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	nazaruous Liinit	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)

Rev. Feb 2025

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.

Rev. Feb 2025

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.

Fire extinguishers are located at various locations around the rig. First Aid supplies are located in the top doghouse and the rig manager's office.

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

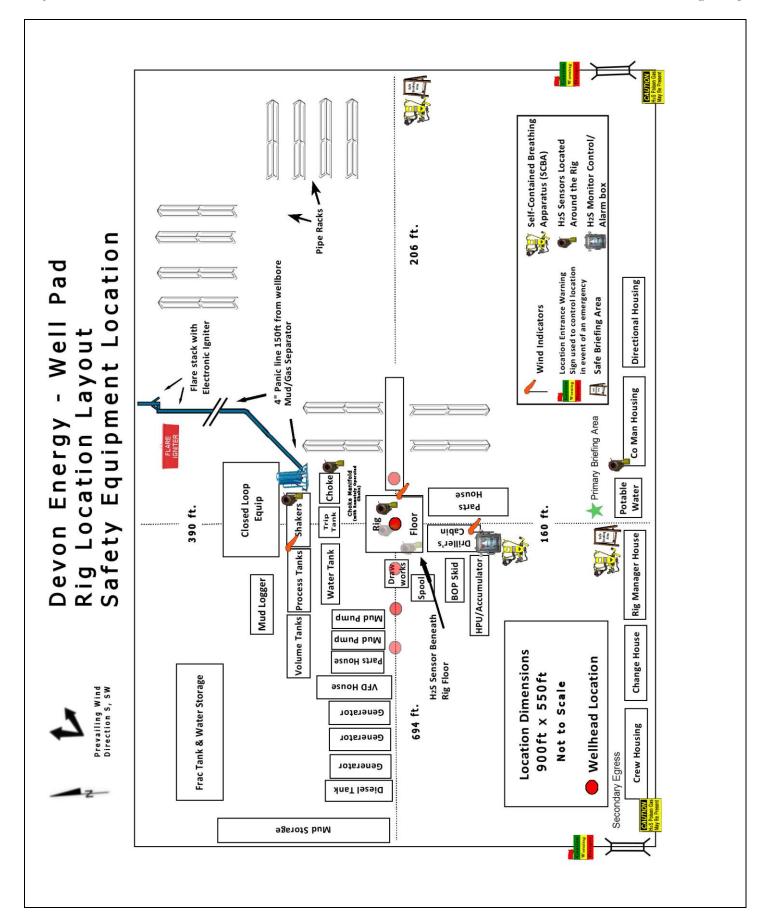
7. Well testing:

- 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							

Rev. Feb 2025

Agency	Call List		
Lea	Hobbs		
County	Lea County Communication Authority		397-9265
(575)	State Police		885-3138
	City Police		397-9265
	Sheriff's Office		396-3611
	Ambulance		911
	Fire Department		397-9308
	LEPC (Local Emergency Planning Committee	tee)	393-2870
	NMOCD	,	393-6161
	US Bureau of Land Management (Closed)		393-0002
Eddy	Carlsbad		
County	State Police		885-3137
(575)	City Police		885-2111
	Sheriff's Office		887-7551
	Ambulance		911
	Fire Department		885-3125
	LEPC (Local Emergency Planning Committee	tee)	887-3798
	US Bureau of Land Management		234-5972
	NM Emergency Response Commission (Sa	anta 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 (91	(5) 699-0139	(915) 563-3356
	Halliburton	,	(575) 746-2757
	B. J. Services		(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	 S	(575) 347-9836
GPS	For Air Ambulance - Eddy County Dispatc		(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



NORTH THISTLE 10 STATE COM 218H

1. Geologic Formations

TVD of target	11225	Pilot hole depth	N/A
MD at TD:	21583	Deepest expected fresh water	

Basin

Dasin	D 41	XX7-4/N/21	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1137		
Salt	1620		
Base of Salt	1620		
Delaware	5106		
Cherry Canyon	6062		
Brushy Canyon	7261		
Bone Spring 1st	9002		
Bone Spring 2nd	10667		

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

2. Casing Program

		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	ВТС	0	1162	0	1162
12 1/4	9 5/8	40	J-55	ВТС	0	5206	0	5206
8 3/4	5 1/2	20	P110	DWC / C-IS+	0	21583	0	11225

[•]All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	879	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	570	Surf	9.0	3.3	Lead: Class C Cement + additives
IIIt I	154	4706	13.2	1.4	Tail: Class H / C + additives
Int 1	741	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	570	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	4706	13.2	1.4	Tail: Class H / C + additives
Production	516	4706	9.0	3.3	Lead: Class H /C + additives
Floduction	2089	10758	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	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 (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		1	Tested to:									
			Anı	nular	X	50% of rated working pressure									
Int 1	13-5/8"	5M		d Ram	X	•									
IIIt I	13-3/0	3101	_	Ram		5M									
			Doub	le Ram	X	JIVI									
			Other*												
			Anı	nular	X	50% of rated working pressure									
Production	13-5/8"	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	Bline	d Ram	X	
rioduction	13-3/6					Pipe Ram			5M						
			Doub	le Ram	X	JIVI									
			Other*												
			Annul	ar (5M)											
			Blind Ram Pipe Ram												
			Doub	le Ram]									
			Other*												

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)		
Surface	FW Gel	8.5-9		
Intermediate	Brine	10-10.5		
Production	WBM	8.5-9		

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							
	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.						

Additiona	l logs planned	Interval
	Resistivity	
	Density	
X	CBL	Production casing
	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?				
BH pressure at deepest TVD	5253				
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.

ineasured varies and formations will be provided to the BEW.						
N	H2S is present					
Y	H2S plan attached.					

NORTH THISTLE 10 STATE COM 218H

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 pad.
- 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 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 nergy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION				Revised July, 2024				
Submit Electronically				ISEIVA.	IION DIV	1510	11		▼ Initial Submittal		
Via OCD Permitting							Submittal	Amended Repor			
							Type:	As Drilled	ι		
									As Drilled		
					ELL LOCAT	ION INFORM	ATION				
API Number Pool Code 7320					Pool Name BRINNINSTOOL;BONE SPRING						
Property Code Property Name NORTH T				NORTH THI	ISTLE 10 STATE COM				Well Number 218H		
OGRII	No. 6137		Operator		N ENERGY F	PRODUCTION COMPANY, L.P.				Ground Level Elevation 3600.8'	
Surfa	ce Owner:	⊠ State □	Fee □Trib	al □Fe	deral	Mineral O	wner:	State [□Fee □7	Tribal Federal	
					Sur	face Location					
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from 1	E/W 1	Latitude		Longitude	County
В	10	23-S	33-E		550' N	1830'	E :	32.3249	983	103.557609	LEA
					Botto	m Hole Locatio	on				
UL	Section	Township	Range	Lot	Ft. from N	'		Latitude		Longitude	County
Р	15	23-S	33-E		20' S	700'	E :	32.297	511	103.553939	LEA
Dedica	ted Acres	Infill or Def	ining Well	Defining	Well API Ove	rlapping Spacin	g Unit	(Y/N)	Consolid	ation Code	
1	60		X			Y					
Order	Numbers		•		Wel	l setbacks are	under (Common	Ownersh	ip: ⊠Yes □No	
					Kick O	ff Point (KOP)					
UL	Section	Township	Range	Lot		/S Ft. from	E/W 1	Latitude		Longitude	County
A	10	23-S	33-E		50' N	700'	•	32.326	I .	103.553950	LEA
	1				First T	ake Point (FTF	·)				
UL	Section	Township	Range	Lot	Ft. from N	′ I	•	Latitude		Longitude	County
A	10	23-S	33-E		100' N	700'	700' E 32.3262		227	103.553950	LEA
					Last T	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from 1	E/W 1	Latitude		Longitude	County
P	10	23-S	33-E		100' S	700'	E :	32.312	255	103.553946	LEA
					Spacing	Unit Type Horizontal Vertical Ground Floor Elevation:				vation:	
ODEDA	TOD CEPTI	FICATIONS				SURVEYOR CE	PTIRICA'	TIONS			
OPERATOR CERTIFICATIONS 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.				t III							
consent interest i complete	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.				the 23261						
Signa	ture		Date			Signature and Seal of Professional Surveyor ONAL					50
· R	ebella	Deal		5/22	/2025						
	ed Name	al Regula	atory An		- 	Certificate Nu	mber I	Date of Survey			
	Rebecca Deal, Regulatory Analyst					23261		04/2025			
reb	rebecca.deal@dvn.com							•			

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.

NORTH THISTLE 10 STATE COM 218H
GEODETIC COORDINATES NAD 83
NMSP EAST SURFACE LOCATION
550' FNL 1830' FEL SECTION 10
EL: 3600.87
N.482828.57/E/780954.05
LAT:32.324983/LDN:103.557609

KICK DFF POINT
50' FNL 700' FEL SECTION 10
N.483339.02/E/78208.52

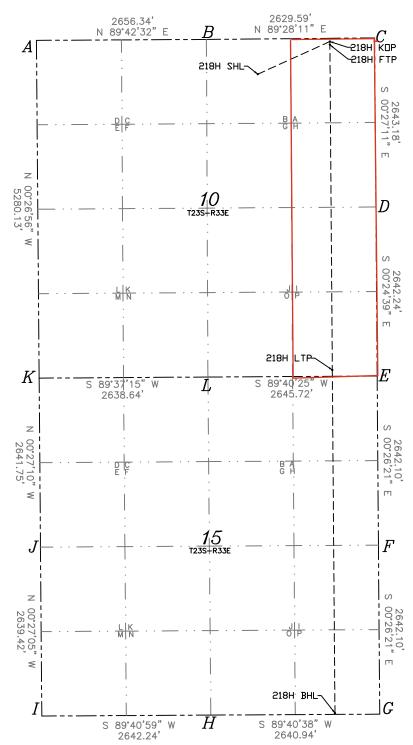
N:483339.027E:782080.52 LAT:32.326364/LDN:103.553950 FIRST TAKE POINT

FIRST TAKE POINT 100' FNL 700' FEL SECTION 10 N:483289.02/E:782080.92 LAT:32.326227/LDN:103.553950

LAST TAKE POINT

100' FSL 700' FEL SECTION 10
N:478206.23/E:782119.24
LAT:32.312255/LON:103.553946

BOTTOM HOLE LOCATION 20' FSL 700' FEL SECTION 15 N:472842.24/E:782160.31 LAT:32.297511/LON:103.553939



A = N:483357.66 E:777494.32
B = N:483371.16 E:780150.63
C = N:483395.50 E:782780.10
D = N:478110.23 E:782819.94
F = N:475468.20 E:782840.20
G = N:472826.18 E:782860.45
H = N:472796.69 E:777577.35
J = N:472796.69 E:777577.35
K = N:478077.69 E:777535.68
L = N:478095.15 E:780174.27