Well Name: BOUNDARY RAIDER 6-7 FED COM

Well Location: T23S / R32E / SEC 6 / LOT 4 / 32.3400715 / -103.7206573

County or Parish/State: LEA / NM

Well Number: 301H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM063994, NMNM63994

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547572

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2644447

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 11/16/2021

Time Sundry Submitted: 09:22

Date proposed operation will begin: 11/15/2021

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to move the SHL/BHL, formation and have a name change on the subject well. Please see attached revised C102, Drill plan, directional plan. Permitted SHL: LOT 4, NWNW, 235 FNL, 710 FWL, 6-23S-32E Proposed SHL: LOT 4, NWNW, 385 FNL, 770 FWL, 6-23S-32E Permitted BHL: LOT 4, SWSW, 20 FSL, 330 FWL, 7-23S-32E Proposed BHL: LOT 4, SWSW, 20 FSL, 1150 FWL, 7-23S-32E Permitted Formation: [98296] WC-025 G-09 S223219D; WOLFCAMP Proposed Formation: [53800] SAND DUNES; BONE SPRING Permitted Well name: BOUNDARY RAIDER 6 7 FEDERAL COM 731H Proposed Well name: BOUNDARY RAIDER 6 7 FEDERAL COM 301H

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

WA017308261_BOUNDARY_RAIDER_6_7_FED_COM_301H_WL_R2_SIGNED_20211116091744.pdf

Boundary_Raider_6_7_Fed_Com_301H_20211116091743.pdf

Boundary_Raider_6_7_Fed_Com_301H_Directional_Plan_11_15_21_20211116091743.pdf

Well Name: BOUNDARY RAIDER 6-7 FED COM

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Unit or CA Name:

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US Well Number: 3002547572

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Additional Reviews

Boundary_Raider_6_7_Fed_Com_301H_Sundry_ID_264447_20211201160218.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: JENNY HARMS

Signed on: NOV 16, 2021 09:22 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City **State:** OK

Phone: (405) 552-6560

Email address: jennifer.harms@dvn.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: Cody Layton

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Phone: 5752345959

BLM POC Email Address: clayton@blm.gov

Disposition: Approved

Disposition Date: 12/20/2021

Signature: Cody R. Layton

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-47572	[53800]	SAND DUNES; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
319790	BOUNDARY RAIDER 6-7 FED COM	301H

[7] OGRID No.	[8] Operator Name	[9] Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3507.1

[10] Surface Location

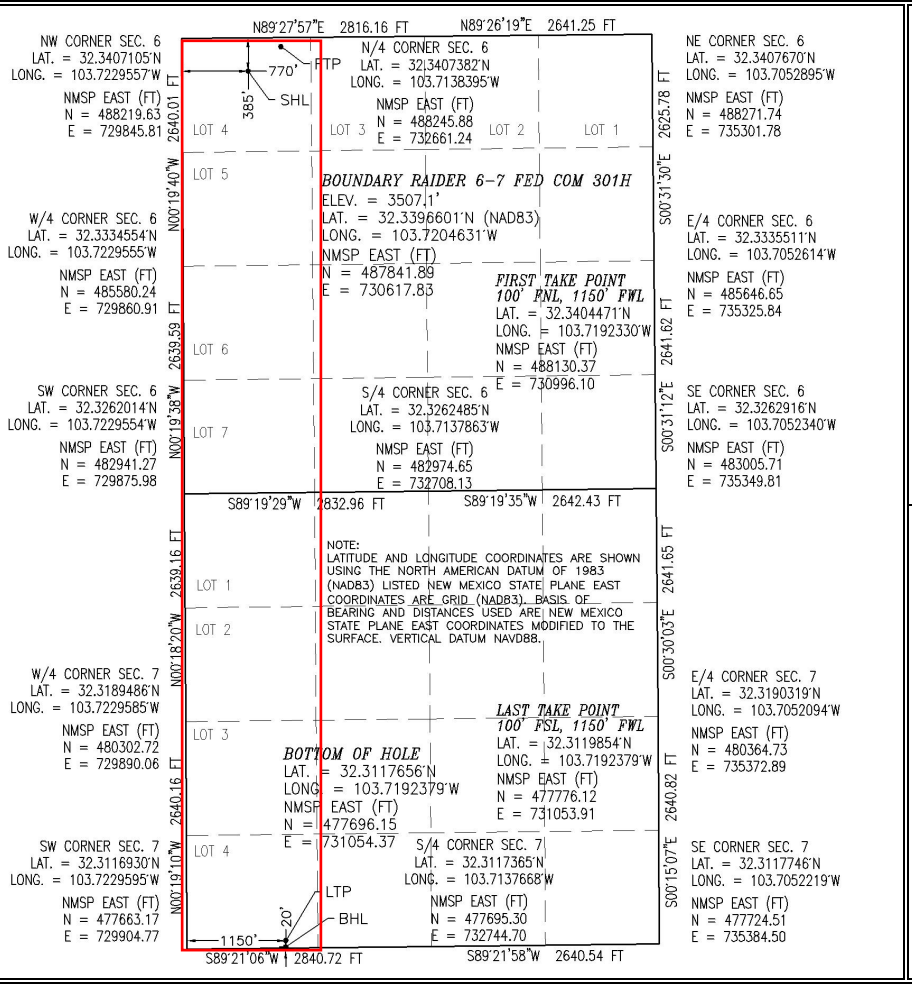
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	6	23 S	32 E		385	NORTH	770	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	7	23 S	32 E		20	SOUTH	1150	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
366.39			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jenny Harms

11-16-2021

Signature Date

JENNY HARMS

Printed Name

JENNY.HARMS@DVN.COM

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 5, 2021

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number: FILEMON E. JARAMILLO, PLS 12797

SURVEY NO. 7392B

Intent [x] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	**BOUNDARY RAIDER 6-7 FED COM**	**301H**

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	6	23S	32E		69 FNL		1152 FWL		LEA

Latitude	Longitude	NAD
32.34046154	-103.71930705	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	6	**23S**	**32E**	**4**	**100**	**NORTH**	**1150**	**WEST**	**LEA**

Latitude	Longitude	NAD
32.3404471	**103.7192330**	**83**

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	7	**23S**	**32E**	**4**	**100**	**SOUTH**	**1150**	**WEST**	**LEA**

Latitude	Longitude	NAD
32.3119854	**103.7192379**	**83**

Is this well the defining well for the Horizontal Spacing Unit? [n]

Is this well an infill well? [y]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

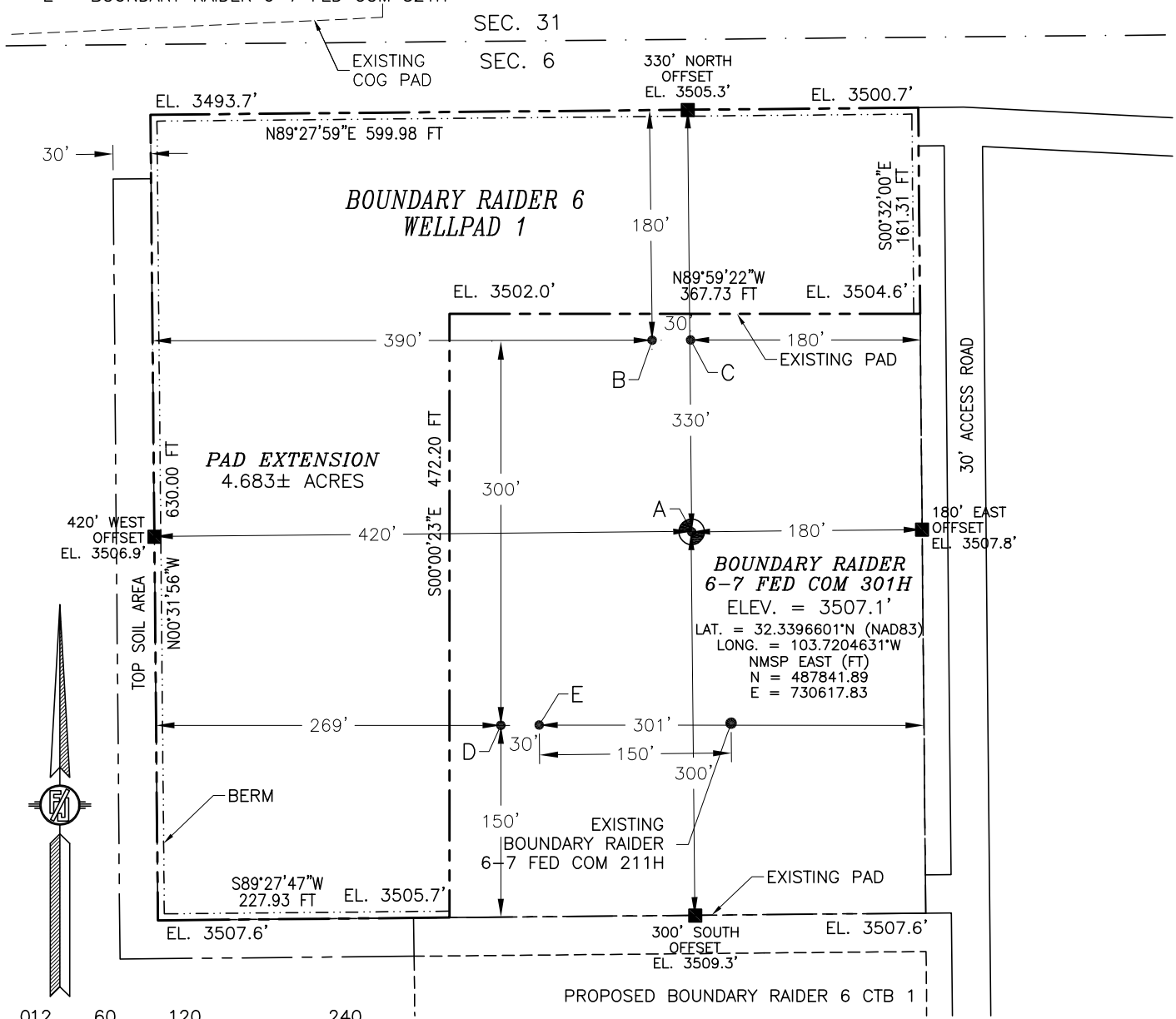
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

A – BOUNDARY RAIDER 6–7 FED COM 301H
B – BOUNDARY RAIDER 6–7 FED COM 611H
C – BOUNDARY RAIDER 6–7 FED COM 711H
D – BOUNDARY RAIDER 6–7 FED COM 511H
E – BOUNDARY RAIDER 6–7 FED COM 521H

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD88.



012 60 120 240
SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 798 (RED ROAD) GO NORTH ON CR 798 8.2 MILES, TURN RIGHT ON CALICHE ROAD AND GO EAST 0.4 MILE, BEND RIGHT AND GO SOUTH 0.15 MILE, BEND LEFT AND GO SOUTHEAST 0.5 MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 154', THEN EAST 570', THEN SOUTH 384', THEN SOUTHEAST 411', THEN 399' SOUTH, THEN SOUTHEAST 72', THEN EAST 901', THEN NORTH 1075', THEN WEST 35' TO THE NORTHEAST PAD CORNER OF BOUNDARY RAIDER 6 WELLPAD 1 FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, PLS 12797

DEVON ENERGY PRODUCTION COMPANY, L.P.

BOUNDARY RAIDER 6–7 FED COM 301H

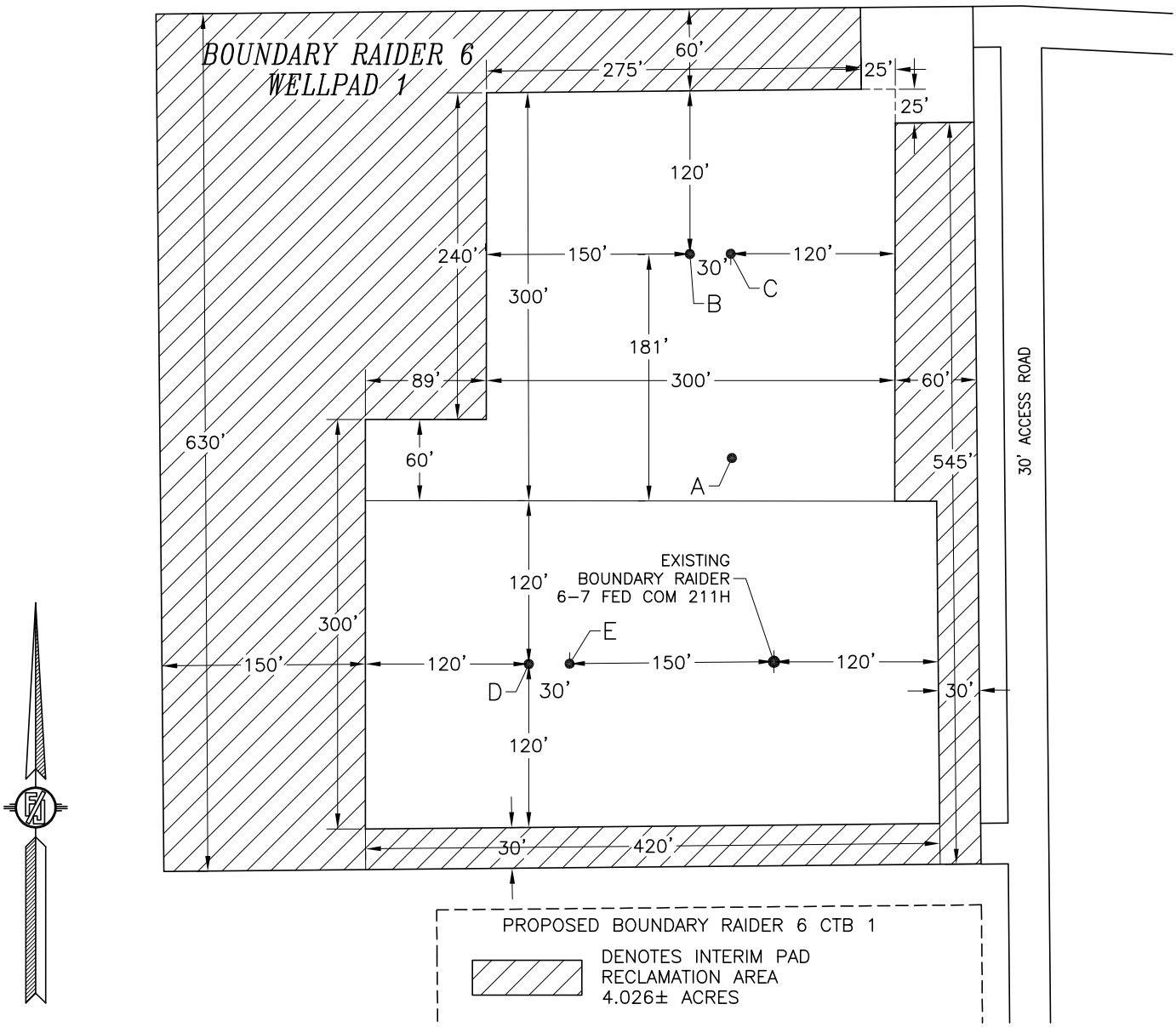
LOCATED 385 FT. FROM THE NORTH LINE AND 770 FT. FROM THE WEST LINE OF SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 4, 2021
SURVEY NO. 7392B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN

A – BOUNDARY RAIDER 6–7 FED COM 301H
B – BOUNDARY RAIDER 6–7 FED COM 611H
C – BOUNDARY RAIDER 6–7 FED COM 711H
D – BOUNDARY RAIDER 6–7 FED COM 511H
E – BOUNDARY RAIDER 6–7 FED COM 521H



012 60 120 240
SCALE 1" = 120'

DEVON ENERGY PRODUCTION COMPANY, L.P.

BOUNDARY RAIDER 6–7 FED COM 301H

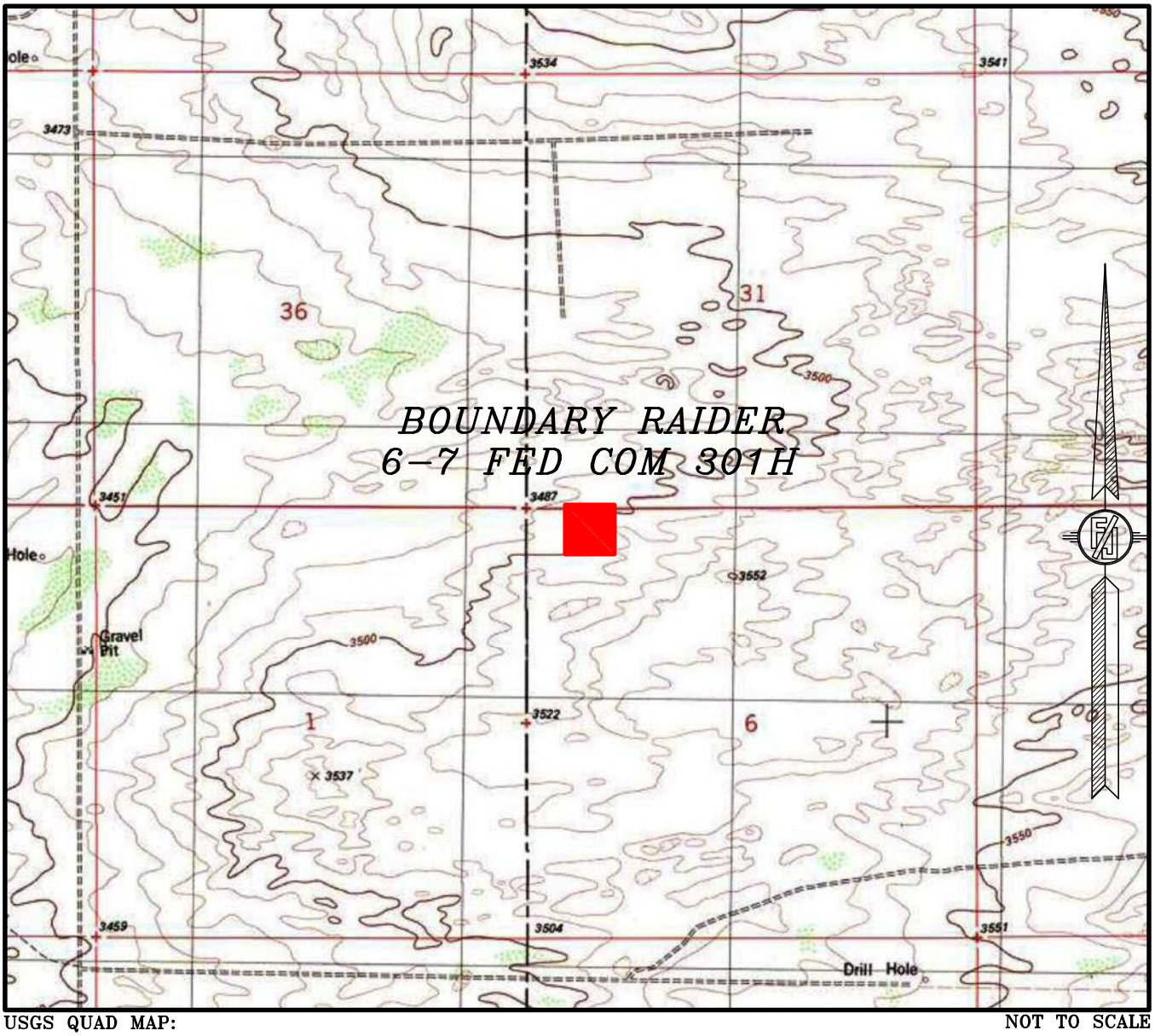
LOCATED 385 FT. FROM THE NORTH LINE
AND 770 FT. FROM THE WEST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 4, 2021
SURVEY NO. 7392B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

LOCATION VERIFICATION MAP



USGS QUAD MAP:
BOOTLEG RIDGE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

BOUNDARY RAIDER 6-7 FED COM 301H

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LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

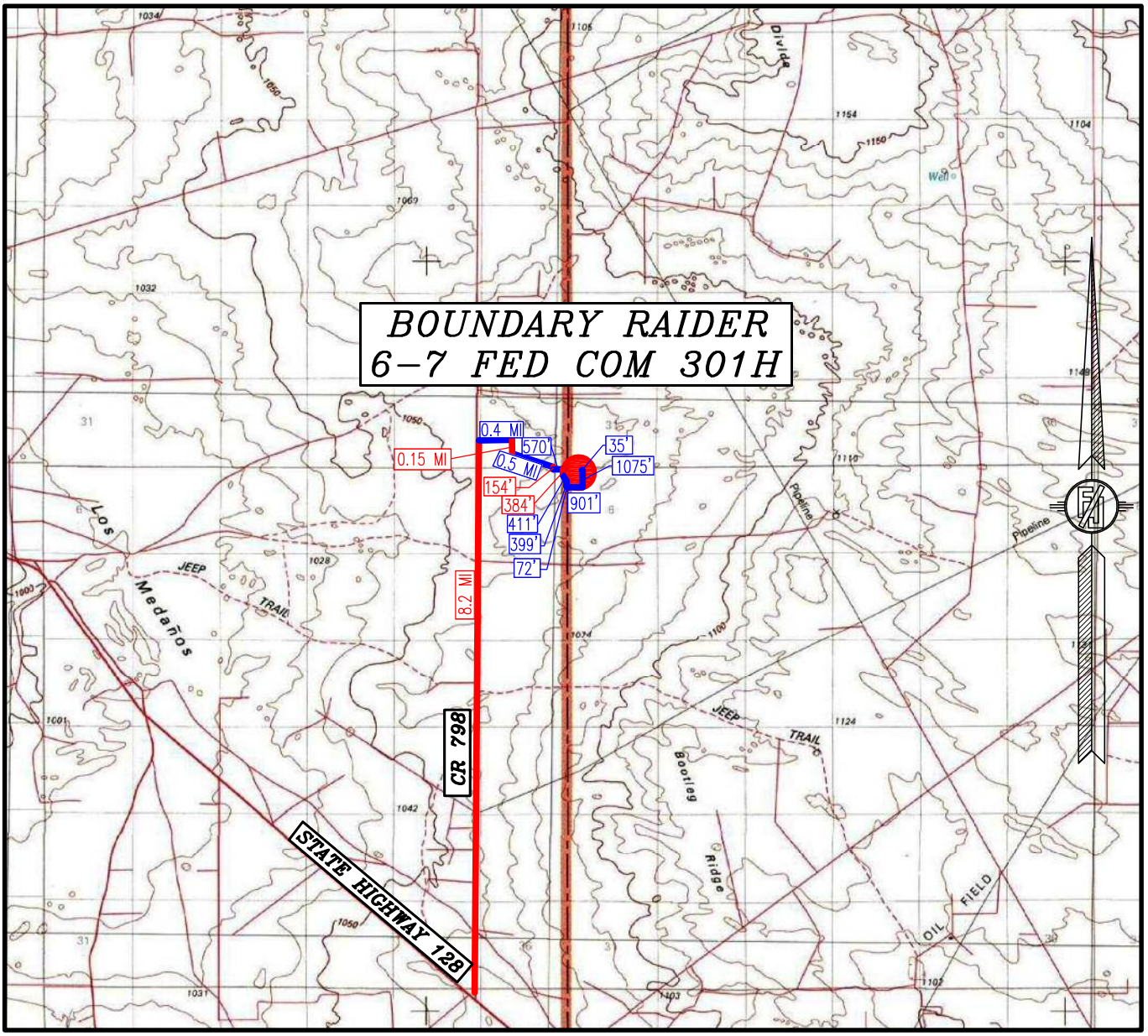
NOVEMBER 4, 2021

SURVEY NO. 7392B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

BOUNDARY RAIDER 6-7 FED COM 301H

LOCATED 385 FT. FROM THE NORTH LINE
AND 770 FT. FROM THE WEST LINE OF
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RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 4, 2021

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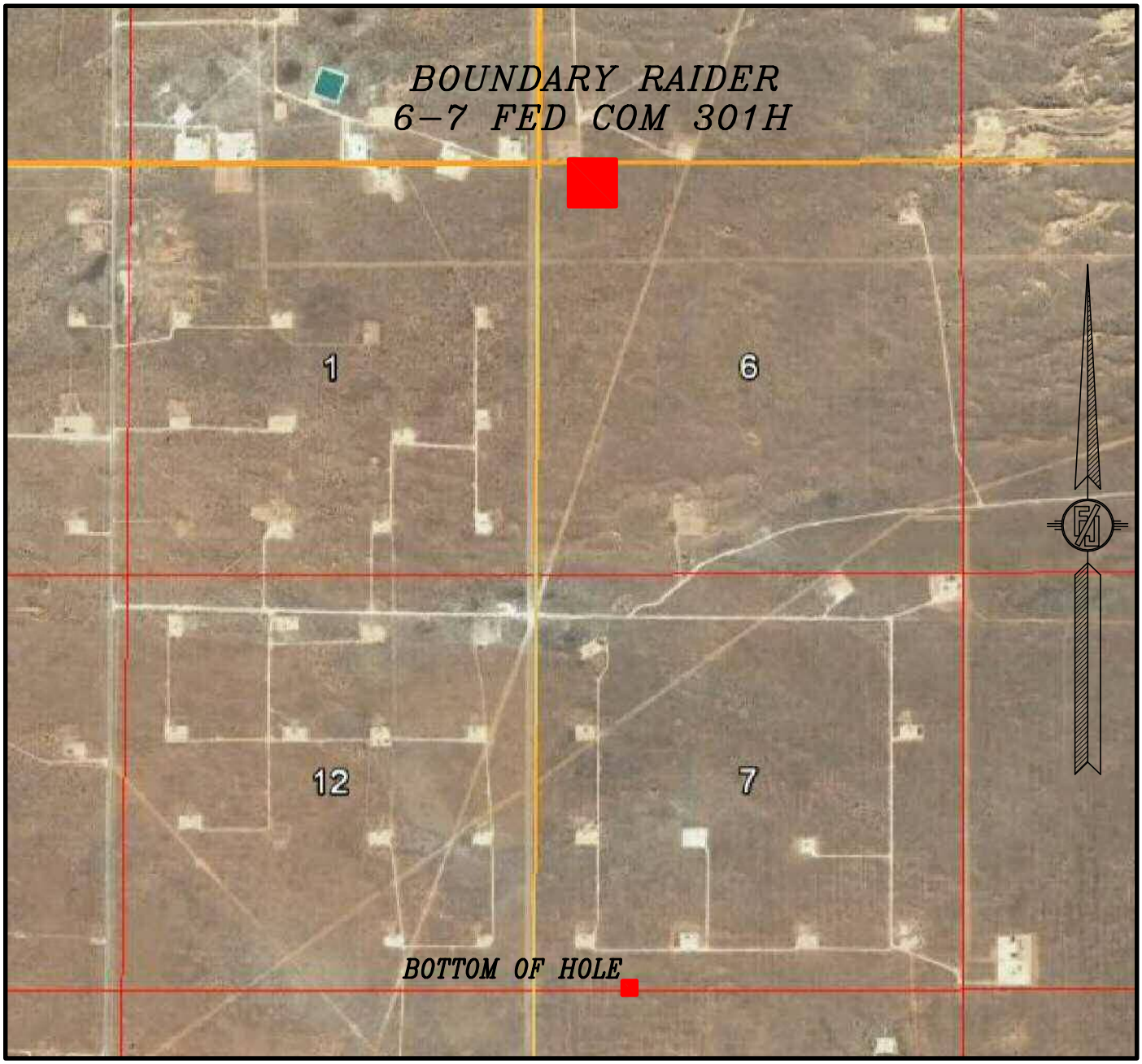
FROM STATE HIGHWAY 128 AND CR 798 (RED ROAD) GO NORTH ON CR 798 8.2 MILES, TURN RIGHT ON CALICHE ROAD AND GO EAST 0.4 MILE, BEND RIGHT AND GO SOUTH 0.15 MILE, BEND LEFT AND GO SOUTHEAST 0.5 MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 154', THEN EAST 570', THEN SOUTH 384', THEN SOUTHEAST 411', THEN 399' SOUTH, THEN SOUTHEAST 72', THEN EAST 901', THEN NORTH 1075', THEN WEST 35' TO THE NORTHEAST PAD CORNER OF BOUNDARY RAIDER 6 WELLPAD 1 FOR THIS LOCATION.

SURVEY NO. 7392B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2017

DEVON ENERGY PRODUCTION COMPANY, L.P.
BOUNDARY RAIDER 6-7 FED COM 301H
LOCATED 385 FT. FROM THE NORTH LINE
AND 770 FT. FROM THE WEST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

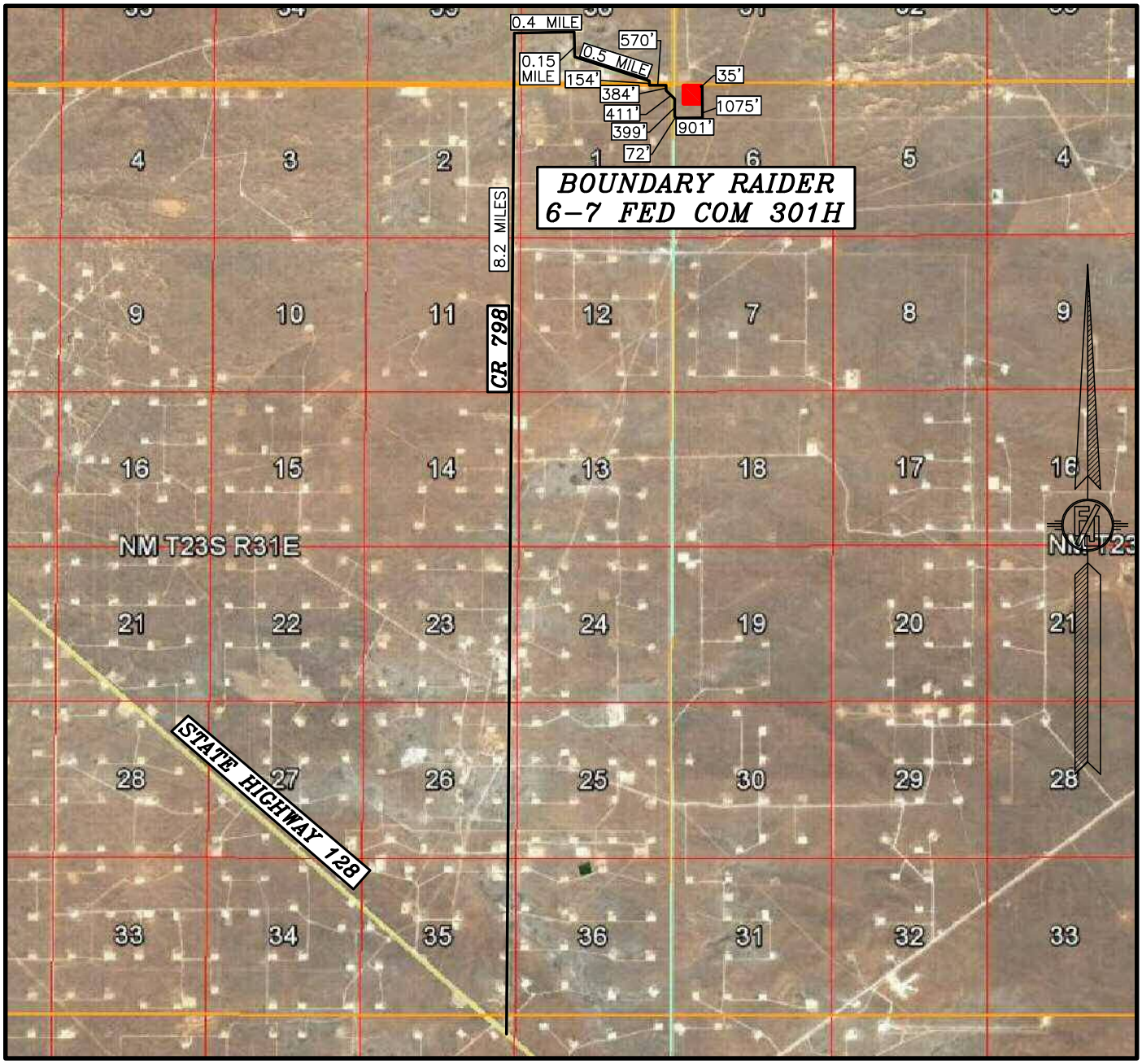
NOVEMBER 4, 2021

SURVEY NO. 7392B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2017

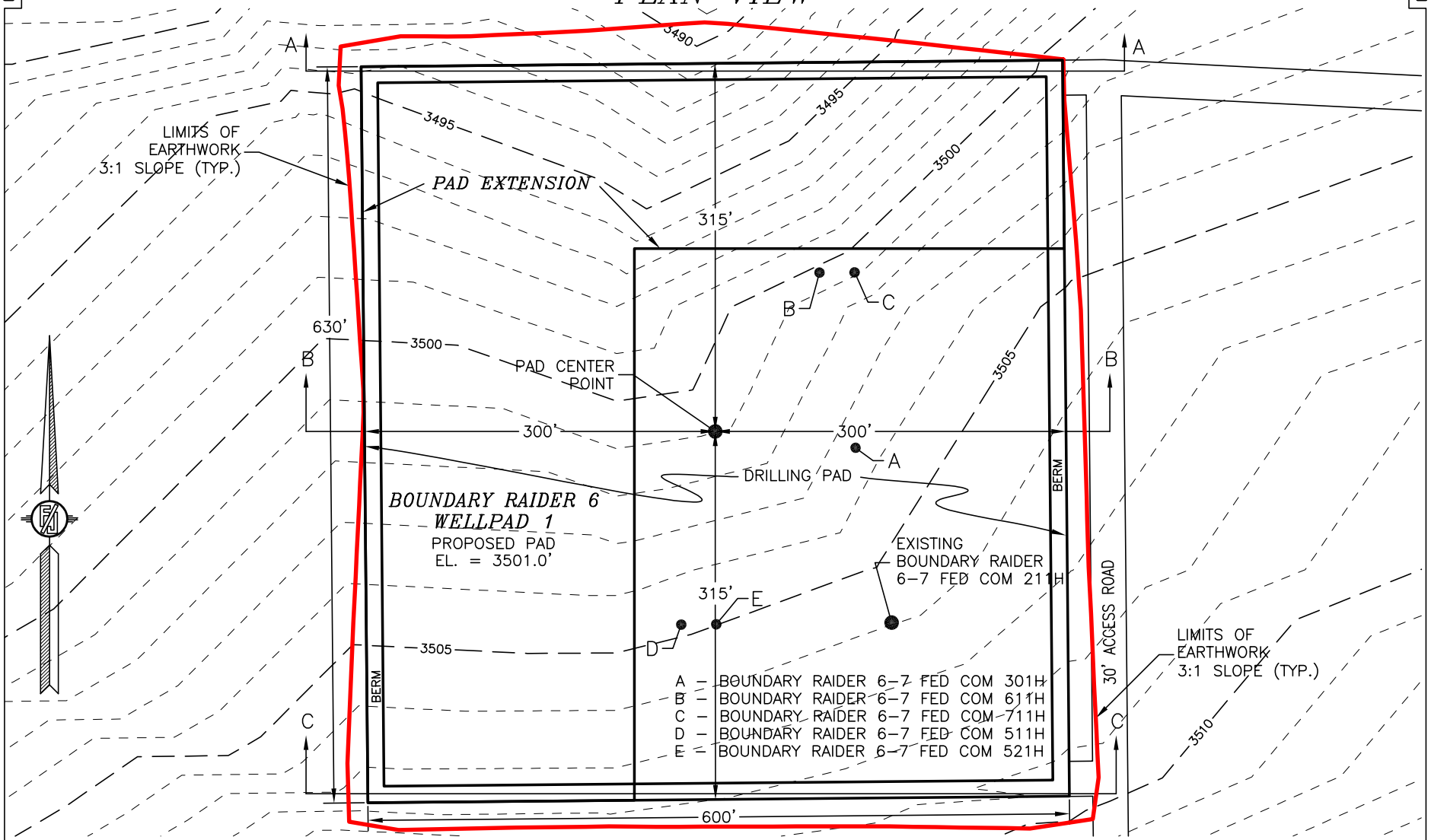
DEVON ENERGY PRODUCTION COMPANY, L.P.
BOUNDARY RAIDER 6-7 FED COM 301H
LOCATED 385 FT. FROM THE NORTH LINE
AND 770 FT. FROM THE WEST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

NOVEMBER 4, 2021

SURVEY NO. 7392B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

FILIMON F. JARAMILLO, NMPS 12797

DEVON ENERGY PRODUCTION COMPANY, L.P.
GRADING PLAN AND CROSS SECTIONS
FOR BOUNDARY RAIDER 6-7 FED COM 301H
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOVEMBER 4, 2021

012 60 120 240
SCALE 1" = 120'

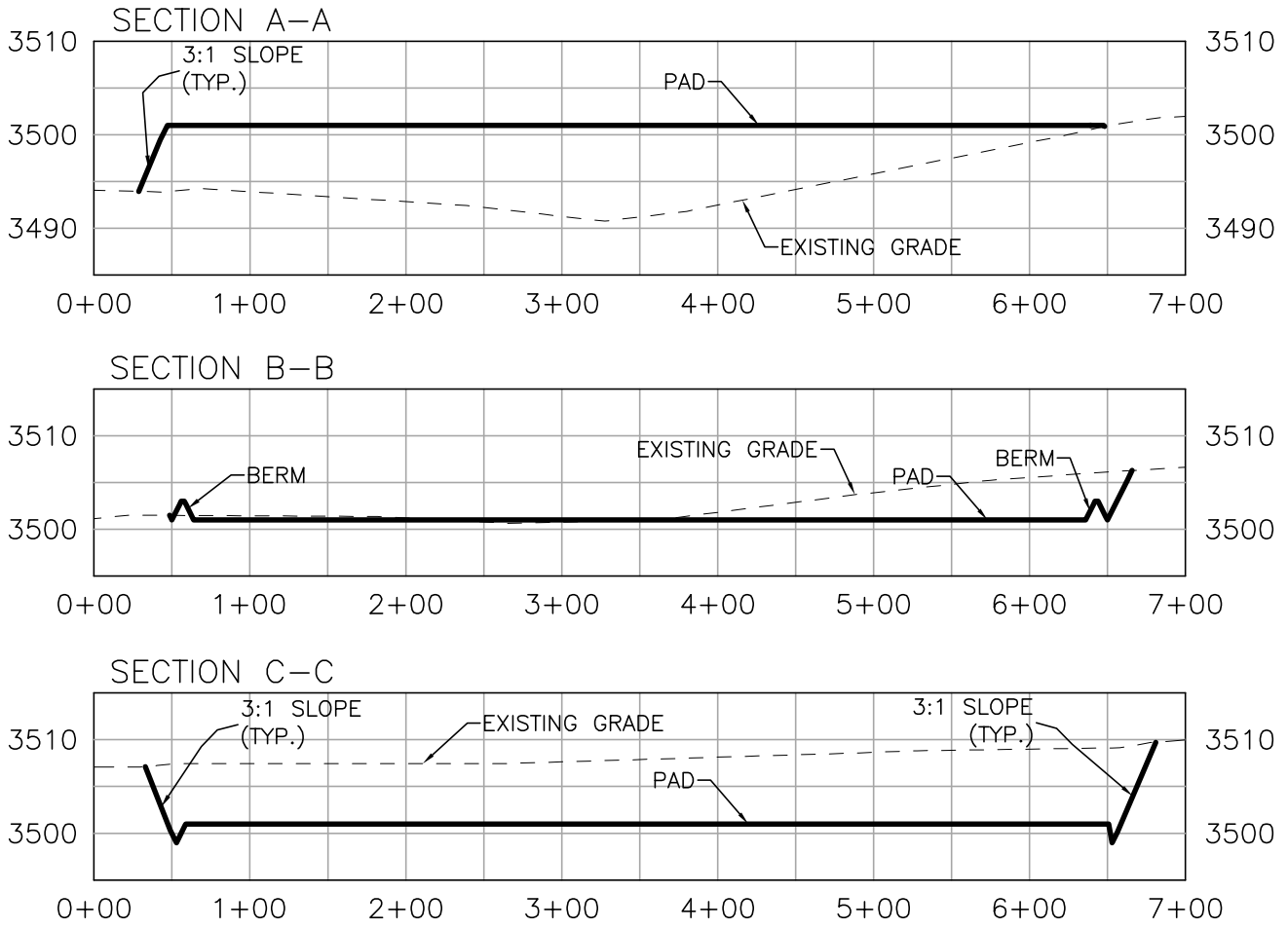
CUT	FILL	NET
39574 CU. YD	21778 CU. YD	17796 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 *CARLSBAD, NEW MEXICO*

SHEET 1-2
SURVEY NO. 7392B

CROSS SECTIONS



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED, AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, N.M.P.S. 12797

DEVON ENERGY PRODUCTION COMPANY, L.P.
GRADING PLAN AND CROSS SECTIONS
FOR BOUNDARY RAIDER 6–7 FED COM 301H
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOVEMBER 4, 2021

012 60 120 240
SCALE 1" = 120' – 1" = 20' VER

CUT	FILL	NET
39574 CU. YD	21778 CU. YD	17796 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234–3341 *CARLSBAD, NEW MEXICO*

SHEET 2–2
SURVEY NO. 7392B

Boundary Raider 6-7 Fed Com 301H

1. Geologic Formations

TVD of target	11210	Pilot hole depth	N/A
MD at TD:	21413	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	800		
Salt	1225		
Base of Salt	4325		
Delaware	4550		
Cherry Canyon	5505		
Brushy Canyon	6785		
1st Bone Spring Lime	8425		
Bone Spring 1st	9520		
Bone Spring 2nd	10150		
3rd Bone Spring Lime	10650		

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

Boundary Raider 6-7 Fed Com 301H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	825	0	825
9 7/8	8 5/8	32	P110	TLW	0	10175	0	10175
7 7/8	5 1/2	17	P110	BTC	0	21413	0	11210

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	636	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	564	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	564	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	55	9675	9	3.27	Lead: Class H /C + additives
	1429	10618	13.2	1.44	Tail: Class H / C + additives

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

Boundary Raider 6-7 Fed Com 301H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested to run a 5 M annular on a 10M system

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	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	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Rpeort 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	5246
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 Onshore Oil and Gas Order #6. 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 (OnShore Order 2, 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

Well: Boundary Raider 6-7 Fed Com 301H
County: Lea
Wellbore: Permit Plan
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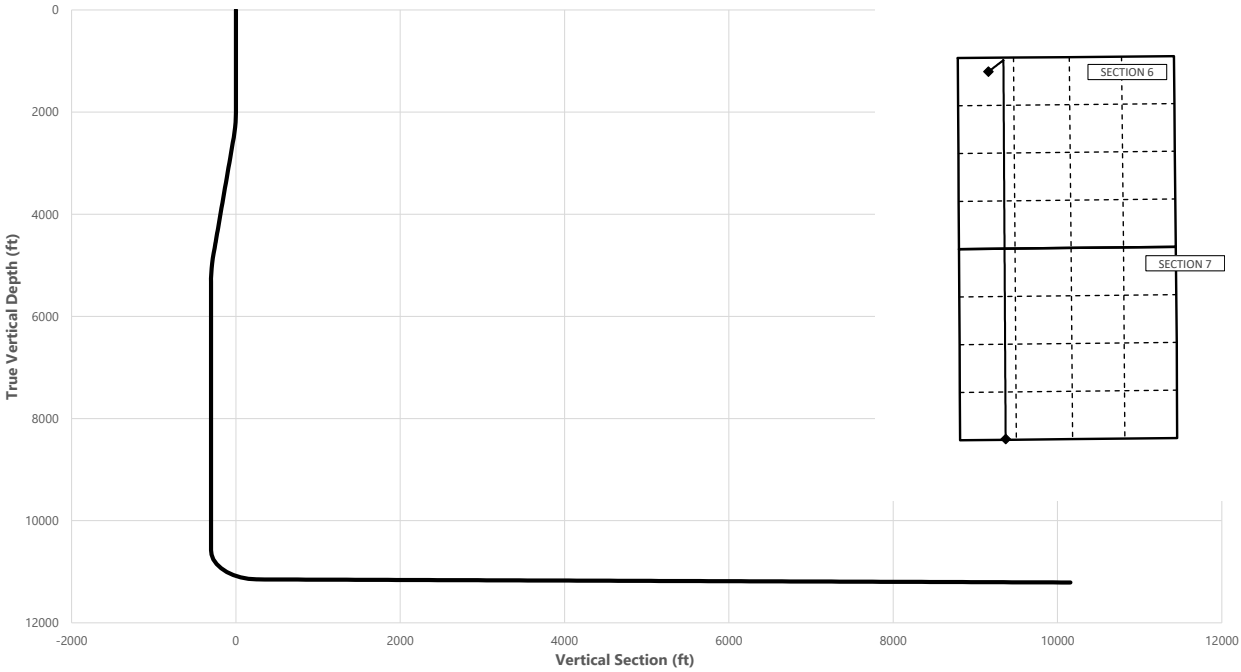
Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	50.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	50.00	2497.47	27.98	33.34	-26.52	2.00	Hold Tangent
4859.55	10.00	50.00	4821.17	291.35	347.21	-276.15	0.00	Drop to Vertical
5359.55	0.00	50.00	5318.64	319.32	380.55	-302.67	2.00	Hold Vertical
10617.97	0.00	179.69	10577.05	319.32	380.55	-302.67	0.00	KOP
11514.50	89.65	179.69	11150.00	-250.15	383.61	266.41	10.00	Landing Point
21412.58	89.65	179.69	11210.00	-10147.91	436.64	10157.30	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	800.00	800.00
Salt	1225.00	1225.00
Base of Salt	4355.73	4325.00
Delaware	4584.20	4550.00
Cherry Canyon	5545.92	5505.00
Brushy Canyon	6825.92	6785.00
1st Bone Spring Lime	8465.92	8425.00
Bone Spring 1st	9560.92	9520.00
Bone Spring 2nd	10190.92	10150.00
3rd Bone Spring Lime / Point of Pen	10691.11	10650.00
exit	21332.58	11209.53

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.3396	-103.7205	385' FNL, 770' FWL of Sec 6 in T23S, R32E
KOP	10617.97	10577.05	32.3405	-103.7193	69' FNL, 1152' FWL of Sec 6 in T23S, R32E
Point of Penetration	10691.11	10650.00	32.3405	-103.7192	100' FNL, 1150' FWL of Sec 6 in T23S, R32E
Exit	21332.58	11209.53	32.3120	-103.7192	100' FSL, 1150' FWL of Sec 7 in T23S, R32E
BHL	21412.58	11210.00	32.3117	-103.7193	20' FSL, 1150' FWL of Sec 7 in T23S, R32E

devon

Well: Boundary Raider 6-7 Fed Com 301H
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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	50.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	50.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	50.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	50.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	50.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	50.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	50.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	50.00	800.00	0.00	0.00	0.00	0.00	Rustler,
900.00	0.00	50.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	50.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	50.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	50.00	1200.00	0.00	0.00	0.00	0.00	
1225.00	0.00	50.00	1225.00	0.00	0.00	0.00	0.00	Salt
1300.00	0.00	50.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	50.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	50.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	50.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	50.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	50.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	50.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	50.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	50.00	2099.98	1.12	1.34	-1.06	2.00	
2200.00	4.00	50.00	2199.84	4.49	5.35	-4.25	2.00	
2300.00	6.00	50.00	2299.45	10.09	12.02	-9.56	2.00	
2400.00	8.00	50.00	2398.70	17.92	21.36	-16.99	2.00	
2500.00	10.00	50.00	2497.47	27.98	33.34	-26.52	2.00	Hold Tangent
2600.00	10.00	50.00	2595.95	39.14	46.64	-37.10	0.00	
2700.00	10.00	50.00	2694.43	50.30	59.94	-47.68	0.00	
2800.00	10.00	50.00	2792.91	61.46	73.25	-58.26	0.00	
2900.00	10.00	50.00	2891.39	72.62	86.55	-68.84	0.00	
3000.00	10.00	50.00	2989.87	83.79	99.85	-79.42	0.00	
3100.00	10.00	50.00	3088.35	94.95	113.15	-89.99	0.00	
3200.00	10.00	50.00	3186.83	106.11	126.46	-100.57	0.00	
3300.00	10.00	50.00	3285.31	117.27	139.76	-111.15	0.00	
3400.00	10.00	50.00	3383.79	128.43	153.06	-121.73	0.00	
3500.00	10.00	50.00	3482.27	139.59	166.36	-132.31	0.00	
3600.00	10.00	50.00	3580.75	150.76	179.66	-142.89	0.00	
3700.00	10.00	50.00	3679.23	161.92	192.97	-153.47	0.00	
3800.00	10.00	50.00	3777.72	173.08	206.27	-164.05	0.00	
3900.00	10.00	50.00	3876.20	184.24	219.57	-174.63	0.00	
4000.00	10.00	50.00	3974.68	195.40	232.87	-185.21	0.00	
4100.00	10.00	50.00	4073.16	206.57	246.18	-195.79	0.00	
4200.00	10.00	50.00	4171.64	217.73	259.48	-206.37	0.00	
4300.00	10.00	50.00	4270.12	228.89	272.78	-216.95	0.00	
4355.73	10.00	50.00	4325.00	235.11	280.19	-222.85	0.00	Base of Salt
4400.00	10.00	50.00	4368.60	240.05	286.08	-227.53	0.00	
4500.00	10.00	50.00	4467.08	251.21	299.38	-238.11	0.00	
4584.20	10.00	50.00	4550.00	260.61	310.58	-247.02	0.00	Delaware
4600.00	10.00	50.00	4565.56	262.38	312.69	-248.69	0.00	
4700.00	10.00	50.00	4664.04	273.54	325.99	-259.27	0.00	
4800.00	10.00	50.00	4762.52	284.70	339.29	-269.85	0.00	
4859.55	10.00	50.00	4821.17	291.35	347.21	-276.15	0.00	Drop to Vertical
4900.00	9.19	50.00	4861.05	295.68	352.38	-280.26	2.00	
5000.00	7.19	50.00	4960.03	304.84	363.29	-288.94	2.00	
5100.00	5.19	50.00	5059.44	311.77	371.55	-295.51	2.00	
5200.00	3.19	50.00	5159.17	316.47	377.15	-299.96	2.00	
5300.00	1.19	50.00	5259.09	318.92	380.08	-302.29	2.00	
5359.55	0.00	50.00	5318.64	319.32	380.55	-302.67	2.00	Hold Vertical
5400.00	0.00	179.69	5359.08	319.32	380.55	-302.67	0.00	
5500.00	0.00	179.69	5459.08	319.32	380.55	-302.67	0.00	
5545.92	0.00	179.69	5505.00	319.32	380.55	-302.67	0.00	Cherry Canyon
5600.00	0.00	179.69	5559.08	319.32	380.55	-302.67	0.00	
5700.00	0.00	179.69	5659.08	319.32	380.55	-302.67	0.00	
5800.00	0.00	179.69	5759.08	319.32	380.55	-302.67	0.00	
5900.00	0.00	179.69	5859.08	319.32	380.55	-302.67	0.00	
6000.00	0.00	179.69	5959.08	319.32	380.55	-302.67	0.00	
6100.00	0.00	179.69	6059.08	319.32	380.55	-302.67	0.00	
6200.00	0.00	179.69	6159.08	319.32	380.55	-302.67	0.00	
6300.00	0.00	179.69	6259.08	319.32	380.55	-302.67	0.00	

devon

Well: Boundary Raider 6-7 Fed Com 301H
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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	0.00	179.69	6359.08	319.32	380.55	-302.67	0.00	
6500.00	0.00	179.69	6459.08	319.32	380.55	-302.67	0.00	
6600.00	0.00	179.69	6559.08	319.32	380.55	-302.67	0.00	
6700.00	0.00	179.69	6659.08	319.32	380.55	-302.67	0.00	
6800.00	0.00	179.69	6759.08	319.32	380.55	-302.67	0.00	
6825.92	0.00	179.69	6785.00	319.32	380.55	-302.67	0.00	Brushy Canyon
6900.00	0.00	179.69	6859.08	319.32	380.55	-302.67	0.00	
7000.00	0.00	179.69	6959.08	319.32	380.55	-302.67	0.00	
7100.00	0.00	179.69	7059.08	319.32	380.55	-302.67	0.00	
7200.00	0.00	179.69	7159.08	319.32	380.55	-302.67	0.00	
7300.00	0.00	179.69	7259.08	319.32	380.55	-302.67	0.00	
7400.00	0.00	179.69	7359.08	319.32	380.55	-302.67	0.00	
7500.00	0.00	179.69	7459.08	319.32	380.55	-302.67	0.00	
7600.00	0.00	179.69	7559.08	319.32	380.55	-302.67	0.00	
7700.00	0.00	179.69	7659.08	319.32	380.55	-302.67	0.00	
7800.00	0.00	179.69	7759.08	319.32	380.55	-302.67	0.00	
7900.00	0.00	179.69	7859.08	319.32	380.55	-302.67	0.00	
8000.00	0.00	179.69	7959.08	319.32	380.55	-302.67	0.00	
8100.00	0.00	179.69	8059.08	319.32	380.55	-302.67	0.00	
8200.00	0.00	179.69	8159.08	319.32	380.55	-302.67	0.00	
8300.00	0.00	179.69	8259.08	319.32	380.55	-302.67	0.00	
8400.00	0.00	179.69	8359.08	319.32	380.55	-302.67	0.00	
8465.92	0.00	179.69	8425.00	319.32	380.55	-302.67	0.00	1st Bone Spring Lime
8500.00	0.00	179.69	8459.08	319.32	380.55	-302.67	0.00	
8600.00	0.00	179.69	8559.08	319.32	380.55	-302.67	0.00	
8700.00	0.00	179.69	8659.08	319.32	380.55	-302.67	0.00	
8800.00	0.00	179.69	8759.08	319.32	380.55	-302.67	0.00	
8900.00	0.00	179.69	8859.08	319.32	380.55	-302.67	0.00	
9000.00	0.00	179.69	8959.08	319.32	380.55	-302.67	0.00	
9100.00	0.00	179.69	9059.08	319.32	380.55	-302.67	0.00	
9200.00	0.00	179.69	9159.08	319.32	380.55	-302.67	0.00	
9300.00	0.00	179.69	9259.08	319.32	380.55	-302.67	0.00	
9400.00	0.00	179.69	9359.08	319.32	380.55	-302.67	0.00	
9500.00	0.00	179.69	9459.08	319.32	380.55	-302.67	0.00	
9560.92	0.00	179.69	9520.00	319.32	380.55	-302.67	0.00	Bone Spring 1st
9600.00	0.00	179.69	9559.08	319.32	380.55	-302.67	0.00	
9700.00	0.00	179.69	9659.08	319.32	380.55	-302.67	0.00	
9800.00	0.00	179.69	9759.08	319.32	380.55	-302.67	0.00	
9900.00	0.00	179.69	9859.08	319.32	380.55	-302.67	0.00	
10000.00	0.00	179.69	9959.08	319.32	380.55	-302.67	0.00	
10100.00	0.00	179.69	10059.08	319.32	380.55	-302.67	0.00	
10190.92	0.00	179.69	10150.00	319.32	380.55	-302.67	0.00	Bone Spring 2nd
10200.00	0.00	179.69	10159.08	319.32	380.55	-302.67	0.00	
10300.00	0.00	179.69	10259.08	319.32	380.55	-302.67	0.00	
10400.00	0.00	179.69	10359.08	319.32	380.55	-302.67	0.00	
10500.00	0.00	179.69	10459.08	319.32	380.55	-302.67	0.00	
10600.00	0.00	179.69	10559.08	319.32	380.55	-302.67	0.00	
10617.97	0.00	179.69	10577.05	319.32	380.55	-302.67	0.00	KOP
10691.11	7.31	179.69	10650.00	314.66	380.58	-298.01	10.00	3rd Bone Spring Lime / Point of Penetration
10700.00	8.20	179.69	10658.80	313.46	380.59	-296.81	10.00	
10800.00	18.20	179.69	10756.04	290.65	380.71	-274.01	10.00	
10900.00	28.20	179.69	10847.83	251.30	380.92	-234.69	10.00	
11000.00	38.20	179.69	10931.40	196.61	381.21	-180.04	10.00	
11100.00	48.20	179.69	11004.20	128.24	381.58	-111.72	10.00	
11200.00	58.20	179.69	11064.02	48.27	382.01	-31.80	10.00	
11300.00	68.20	179.69	11109.05	-40.88	382.48	57.29	10.00	
11400.00	78.20	179.69	11137.91	-136.49	383.00	152.83	10.00	
11500.00	88.20	179.69	11149.73	-235.66	383.53	251.93	10.00	
11514.50	89.65	179.69	11150.00	-250.15	383.61	266.41	10.00	Landing Point
11600.00	89.65	179.69	11150.52	-335.66	384.06	351.86	0.00	
11700.00	89.65	179.69	11151.12	-435.65	384.60	451.78	0.00	
11800.00	89.65	179.69	11151.73	-535.65	385.14	551.71	0.00	
11900.00	89.65	179.69	11152.34	-635.65	385.67	651.64	0.00	
12000.00	89.65	179.69	11152.94	-735.64	386.21	751.57	0.00	
12100.00	89.65	179.69	11153.55	-835.64	386.74	851.49	0.00	
12200.00	89.65	179.69	11154.16	-935.64	387.28	951.42	0.00	
12300.00	89.65	179.69	11154.76	-1035.63	387.82	1051.35	0.00	
12400.00	89.65	179.69	11155.37	-1135.63	388.35	1151.27	0.00	
12500.00	89.65	179.69	11155.98	-1235.63	388.89	1251.20	0.00	
12600.00	89.65	179.69	11156.58	-1335.62	389.42	1351.13	0.00	

devon

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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12700.00	89.65	179.69	11157.19	-1435.62	389.96	1451.06	0.00	
12800.00	89.65	179.69	11157.79	-1535.62	390.50	1550.98	0.00	
12900.00	89.65	179.69	11158.40	-1635.61	391.03	1650.91	0.00	
13000.00	89.65	179.69	11159.01	-1735.61	391.57	1750.84	0.00	
13100.00	89.65	179.69	11159.61	-1835.61	392.10	1850.77	0.00	
13200.00	89.65	179.69	11160.22	-1935.60	392.64	1950.69	0.00	
13300.00	89.65	179.69	11160.83	-2035.60	393.18	2050.62	0.00	
13400.00	89.65	179.69	11161.43	-2135.60	393.71	2150.55	0.00	
13500.00	89.65	179.69	11162.04	-2235.59	394.25	2250.48	0.00	
13600.00	89.65	179.69	11162.64	-2335.59	394.78	2350.40	0.00	
13700.00	89.65	179.69	11163.25	-2435.59	395.32	2450.33	0.00	
13800.00	89.65	179.69	11163.86	-2535.58	395.86	2550.26	0.00	
13900.00	89.65	179.69	11164.46	-2635.58	396.39	2650.18	0.00	
14000.00	89.65	179.69	11165.07	-2735.58	396.93	2750.11	0.00	
14100.00	89.65	179.69	11165.68	-2835.57	397.47	2850.04	0.00	
14200.00	89.65	179.69	11166.28	-2935.57	398.00	2949.97	0.00	
14300.00	89.65	179.69	11166.89	-3035.57	398.54	3049.89	0.00	
14400.00	89.65	179.69	11167.49	-3135.56	399.07	3149.82	0.00	
14500.00	89.65	179.69	11168.10	-3235.56	399.61	3249.75	0.00	
14600.00	89.65	179.69	11168.71	-3335.56	400.15	3349.68	0.00	
14700.00	89.65	179.69	11169.31	-3435.55	400.68	3449.60	0.00	
14800.00	89.65	179.69	11169.92	-3535.55	401.22	3549.53	0.00	
14900.00	89.65	179.69	11170.53	-3635.55	401.75	3649.46	0.00	
15000.00	89.65	179.69	11171.13	-3735.54	402.29	3749.39	0.00	
15100.00	89.65	179.69	11171.74	-3835.54	402.83	3849.31	0.00	
15200.00	89.65	179.69	11172.35	-3935.54	403.36	3949.24	0.00	
15300.00	89.65	179.69	11172.95	-4035.53	403.90	4049.17	0.00	
15400.00	89.65	179.69	11173.56	-4135.53	404.43	4149.09	0.00	
15500.00	89.65	179.69	11174.16	-4235.53	404.97	4249.02	0.00	
15600.00	89.65	179.69	11174.77	-4335.52	405.51	4348.95	0.00	
15700.00	89.65	179.69	11175.38	-4435.52	406.04	4448.88	0.00	
15800.00	89.65	179.69	11175.98	-4535.52	406.58	4548.80	0.00	
15900.00	89.65	179.69	11176.59	-4635.52	407.11	4648.73	0.00	
16000.00	89.65	179.69	11177.20	-4735.51	407.65	4748.66	0.00	
16100.00	89.65	179.69	11177.80	-4835.51	408.19	4848.59	0.00	
16200.00	89.65	179.69	11178.41	-4935.51	408.72	4948.51	0.00	
16300.00	89.65	179.69	11179.01	-5035.50	409.26	5048.44	0.00	
16400.00	89.65	179.69	11179.62	-5135.50	409.79	5148.37	0.00	
16500.00	89.65	179.69	11180.23	-5235.50	410.33	5248.30	0.00	
16600.00	89.65	179.69	11180.83	-5335.49	410.87	5348.22	0.00	
16700.00	89.65	179.69	11181.44	-5435.49	411.40	5448.15	0.00	
16800.00	89.65	179.69	11182.05	-5535.49	411.94	5548.08	0.00	
16900.00	89.65	179.69	11182.65	-5635.48	412.48	5648.00	0.00	
17000.00	89.65	179.69	11183.26	-5735.48	413.01	5747.93	0.00	
17100.00	89.65	179.69	11183.87	-5835.48	413.55	5847.86	0.00	
17200.00	89.65	179.69	11184.47	-5935.47	414.08	5947.79	0.00	
17300.00	89.65	179.69	11185.08	-6035.47	414.62	6047.71	0.00	
17400.00	89.65	179.69	11185.68	-6135.47	415.16	6147.64	0.00	
17500.00	89.65	179.69	11186.29	-6235.46	415.69	6247.57	0.00	
17600.00	89.65	179.69	11186.90	-6335.46	416.23	6347.50	0.00	
17700.00	89.65	179.69	11187.50	-6435.46	416.76	6447.42	0.00	
17800.00	89.65	179.69	11188.11	-6535.45	417.30	6547.35	0.00	
17900.00	89.65	179.69	11188.72	-6635.45	417.84	6647.28	0.00	
18000.00	89.65	179.69	11189.32	-6735.45	418.37	6747.21	0.00	
18100.00	89.65	179.69	11189.93	-6835.44	418.91	6847.13	0.00	
18200.00	89.65	179.69	11190.53	-6935.44	419.44	6947.06	0.00	
18300.00	89.65	179.69	11191.14	-7035.44	419.98	7046.99	0.00	
18400.00	89.65	179.69	11191.75	-7135.43	420.52	7146.91	0.00	
18500.00	89.65	179.69	11192.35	-7235.43	421.05	7246.84	0.00	
18600.00	89.65	179.69	11192.96	-7335.43	421.59	7346.77	0.00	
18700.00	89.65	179.69	11193.57	-7435.42	422.12	7446.70	0.00	
18800.00	89.65	179.69	11194.17	-7535.42	422.66	7546.62	0.00	
18900.00	89.65	179.69	11194.78	-7635.42	423.20	7646.55	0.00	
19000.00	89.65	179.69	11195.38	-7735.41	423.73	7746.48	0.00	
19100.00	89.65	179.69	11195.99	-7835.41	424.27	7846.41	0.00	
19200.00	89.65	179.69	11196.60	-7935.41	424.80	7946.33	0.00	
19300.00	89.65	179.69	11197.20	-8035.40	425.34	8046.26	0.00	
19400.00	89.65	179.69	11197.81	-8135.40	425.88	8146.19	0.00	
19500.00	89.65	179.69	11198.42	-8235.40	426.41	8246.12	0.00	
19600.00	89.65	179.69	11199.02	-8335.39	426.95	8346.04	0.00	

devon

Well: Boundary Raider 6-7 Fed Com 301H
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 (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19700.00	89.65	179.69	11199.63	-8435.39	427.48	8445.97	0.00	
19800.00	89.65	179.69	11200.24	-8535.39	428.02	8545.90	0.00	
19900.00	89.65	179.69	11200.84	-8635.38	428.56	8645.82	0.00	
20000.00	89.65	179.69	11201.45	-8735.38	429.09	8745.75	0.00	
20100.00	89.65	179.69	11202.05	-8835.38	429.63	8845.68	0.00	
20200.00	89.65	179.69	11202.66	-8935.37	430.17	8945.61	0.00	
20300.00	89.65	179.69	11203.27	-9035.37	430.70	9045.53	0.00	
20400.00	89.65	179.69	11203.87	-9135.37	431.24	9145.46	0.00	
20500.00	89.65	179.69	11204.48	-9235.36	431.77	9245.39	0.00	
20600.00	89.65	179.69	11205.09	-9335.36	432.31	9345.32	0.00	
20700.00	89.65	179.69	11205.69	-9435.36	432.85	9445.24	0.00	
20800.00	89.65	179.69	11206.30	-9535.35	433.38	9545.17	0.00	
20900.00	89.65	179.69	11206.90	-9635.35	433.92	9645.10	0.00	
21000.00	89.65	179.69	11207.51	-9735.35	434.45	9745.02	0.00	
21100.00	89.65	179.69	11208.12	-9835.34	434.99	9844.95	0.00	
21200.00	89.65	179.69	11208.72	-9935.34	435.53	9944.88	0.00	
21300.00	89.65	179.69	11209.33	-10035.34	436.06	10044.81	0.00	
21332.58	89.65	179.69	11209.53	-10067.91	436.24	10077.36	0.00	exit
21400.00	89.65	179.69	11209.94	-10135.33	436.60	10144.73	0.00	
21412.58	89.65	179.69	11210.00	-10147.91	436.64	10157.30	0.00	BHL

Well: Boundary Raider 6-7 Fed Com 301H
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 (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LEASE NO.:	**NMNM063994**
WELL NAME & NO.:	Boundary Raider 6-7 Fed Com 301H
SURFACE HOLE FOOTAGE:	385'/N & 770'/W
BOTTOM HOLE FOOTAGE	20'/S & 1150'/W
LOCATION:	Section 6, T.23 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	◉ Yes	○ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☑ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Bone Spring** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **825 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement might be required.**

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Cement excess is less than 25%, more cement might be required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 70101

COMMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 70101
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
pkautz	STANDARD LOCATION - PROPOSED BHLOC IS 370 FEET FROM EAST SIDE OF HSU	1/4/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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CONDITIONS

Action 70101

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 70101
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/4/2022