

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

Form C-101
August 1, 2011

Permit 277364

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

1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102		2. OGRID Number 6137
		3. API Number 30-025-46792
4. Property Code 40329	5. Property Name SEA SNAKE 35 STATE	6. Well No. 017H

7. Surface Location

UL - Lot M	Section 35	Township 23S	Range 33E	Lot Idn M	Feet From 247	N/S Line S	Feet From 561	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 35	Township 23S	Range 33E	Lot Idn C	Feet From 20	N/S Line N	Feet From 1510	E/W Line W	County Lea
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9. Pool Information

TRIPLE X;BONE SPRING	59900
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3658
16. Multiple N	17. Proposed Depth 15631	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/1/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	1358	1021	0
Int1	12.25	9.625	40	5258	734	0
Prod	8.75	5.5	17	15631	1524	4758

Casing/Cement Program: Additional Comments

Int 1 Two Stage w/ DV @ TVD of Delaware 934 Surf 9.0 3.3 1st stage Lead: Class C Cement + additives 136 500' above shoe 13.2 1.4 1st stage Tail: Class H / C + additives 412 Surf 9.0 3.3 2nd stage Lead: Class C Cement + additives 136 500' above DV 13.2 1.4 2nd stage Tail: Class H / C + additives Int 1 Intermediate Squeeze As Needed Surf 13.2 1.4 Squeeze Lead: Class C Cement + additives 580 Surf 9.0 3.3 Lead: Class C Cement + additives 154 500' above shoe 13.2 1.4 Tail: Class H / C + additives

22. Proposed Blowout Prevention Program

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name: Electronically filed by Jeff Walla	Approved By: Paul F Kautz		
Title: Supervisor Land	Title: Geologist		
Email Address: Jeff.Walla@dmn.com	Approved Date: 1/27/2020	Expiration Date: 1/27/2022	
Date: 1/21/2020	Phone: 575-748-9925	Conditions of Approval Attached	

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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, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 59900	Pool Name TRIPLE X;BONE SPRING
Property Code	Property Name SEA SNAKE 35 STATE	Well Number 17H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3657.9'

Surface Location

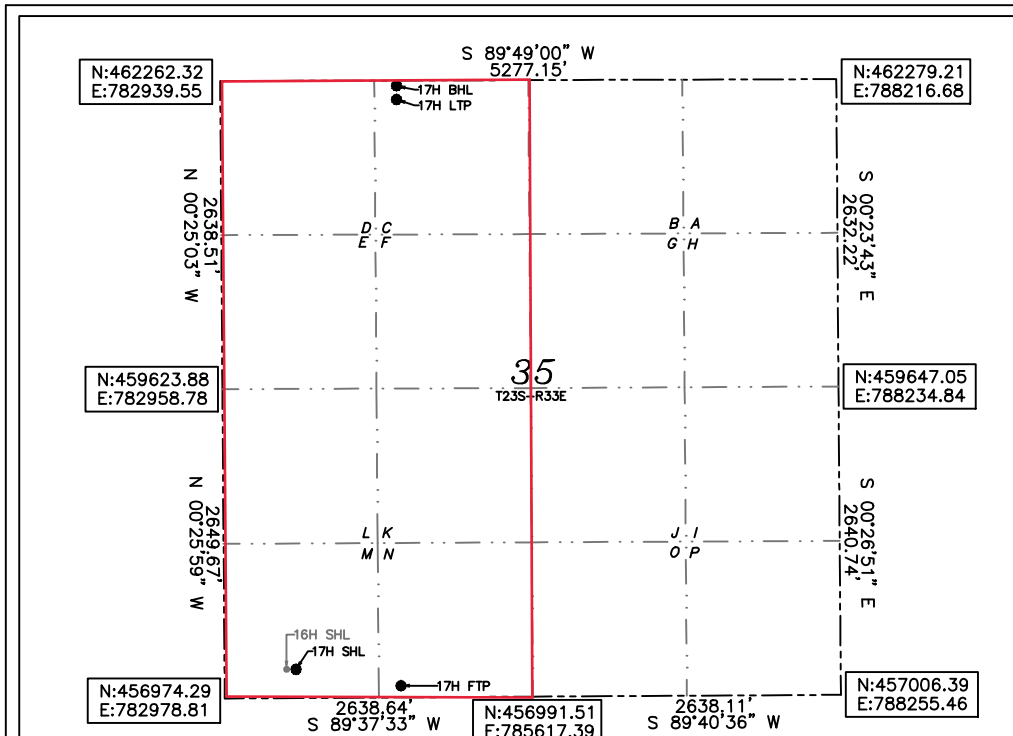
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	23-S	33-E		247	SOUTH	561	WEST	LEA

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
C	35	23-S	33-E		20	NORTH	1510	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 1/6/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dm.com
E-mail Address

rebecca.deal@dm.com
E-mail Address

rebecca.deal@dm.com
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rebecca.deal@dm.com

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

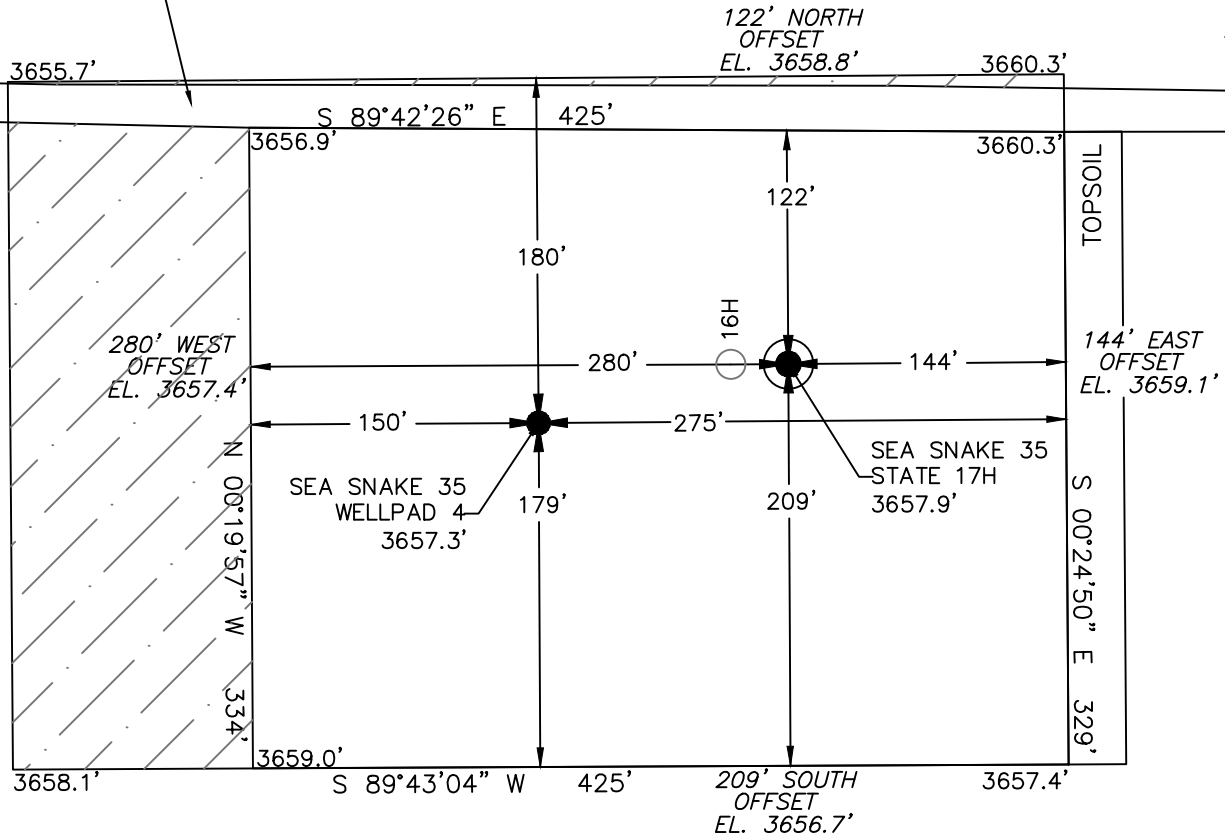
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO SITE MAP

SEA SNAKE 35
PRIMARY ACCESS ROAD
PROPOSED EASEMENT



PROPOSED PAD 3.233± ACRES
ACCESS ROAD 0.286± ACRES
TOTAL 3.519± ACRES

Note: All bearings recited
herein are based on the New
Mexico State Plane Coordinate
System, NAD 83, New Mexico
East Zone 3001, US Survey
Feet, all distances are grid.

DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM-128 AND BRININSTOOL ROAD (CR. 2-A), HEAD
NORTH ON BRININSTOOL ROAD (CR. 2-A) FOR 3.1 MILES. TURN RIGHT ON
PROPOSED SEA SNAKE 35 PRIMARY ACCESS ROAD FOR 1.2 MILES TO THE
NORTHWEST CORNER OF THE SEA SNAKE 35 WELLPAD 4.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by
CHRIS MAAS

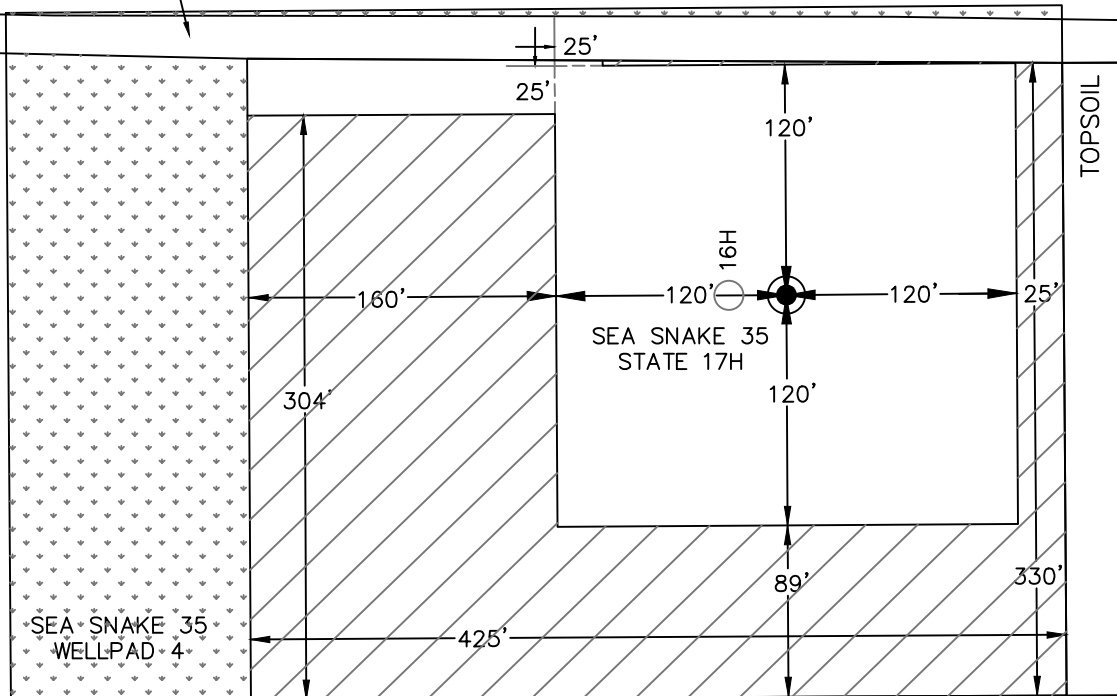
Date: 12/04/2019

Drawn for:



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN

SEA SNAKE 35
PRIMARY ACCESS ROAD
PROPOSED EASEMENT



 DENOTES INTERIM PAD RECLAMATION AREA
 DENOTES GRADING SITE RECLAMATION AREA

1.803± ACRES INTERIM PAD RECLAMATION AREA
1.012± ACRES GRADING SITE RECLAMATION AREA
1.716± ACRES NON-RECLAIMED AREA
4.531± ACRES GRADING SITE RECLAMATION AREA



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

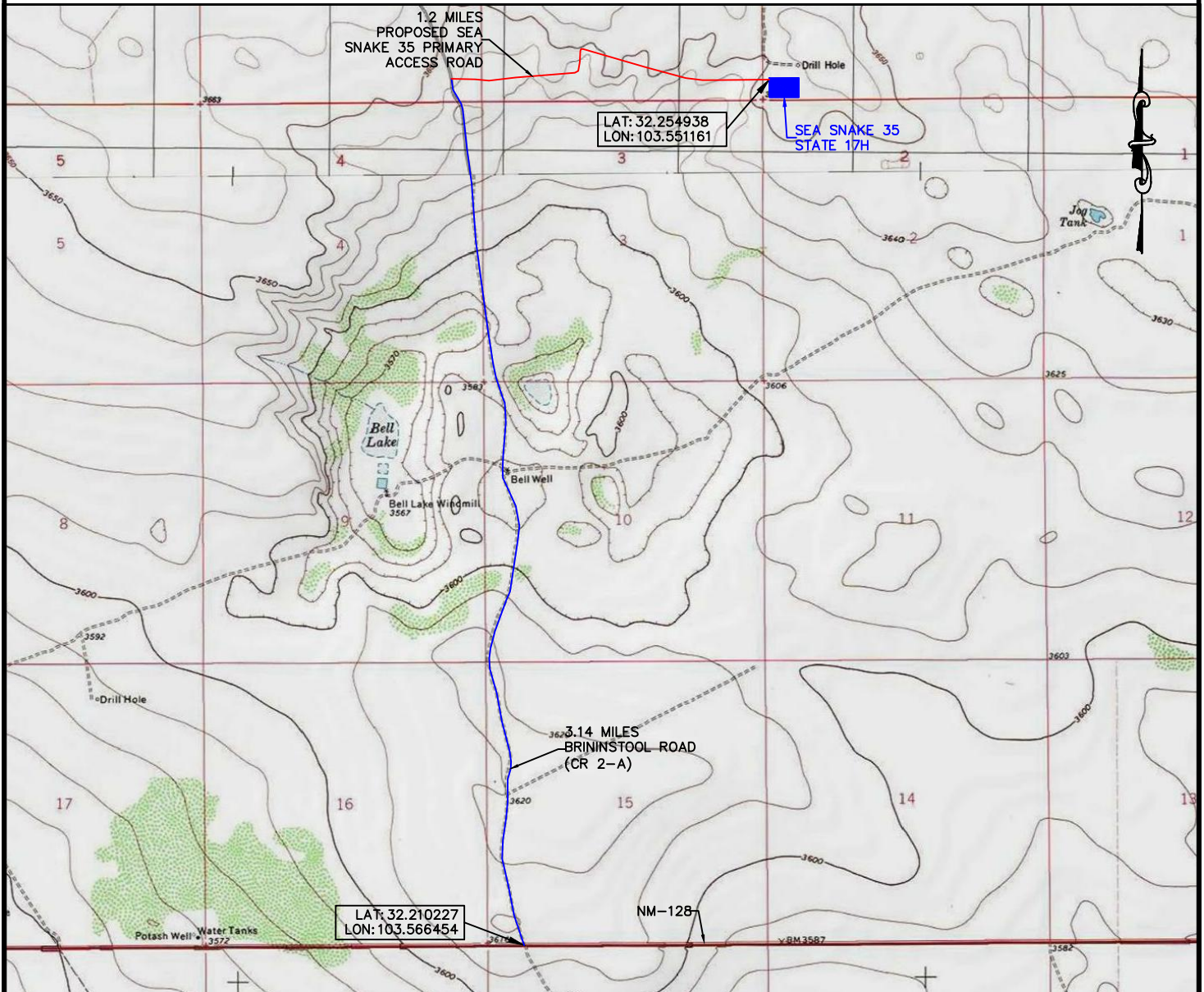
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:


devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO VICINITY MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM-128 AND BRININSTOOL ROAD (CR. 2-A), HEAD NORTH ON BRININSTOOL ROAD (CR. 2-A) FOR 3.1 MILES. TURN RIGHT ON PROPOSED SEA SNAKE 35 PRIMARY ACCESS ROAD FOR 1.2 MILES TO THE NORTHWEST CORNER OF THE SEA SNAKE 35 WELLPAD 4.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

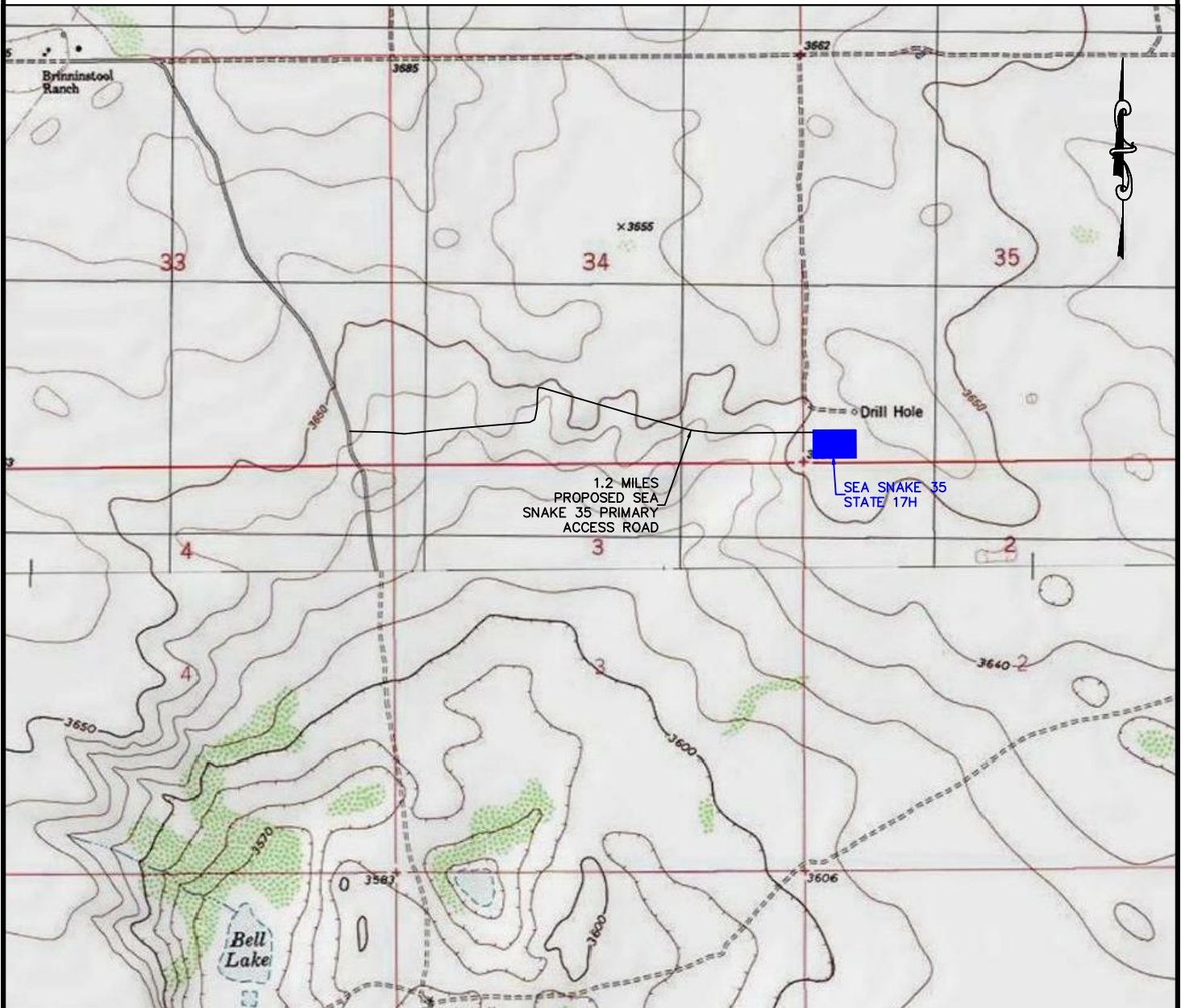
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
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LEA COUNTY, STATE OF NEW MEXICO



HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

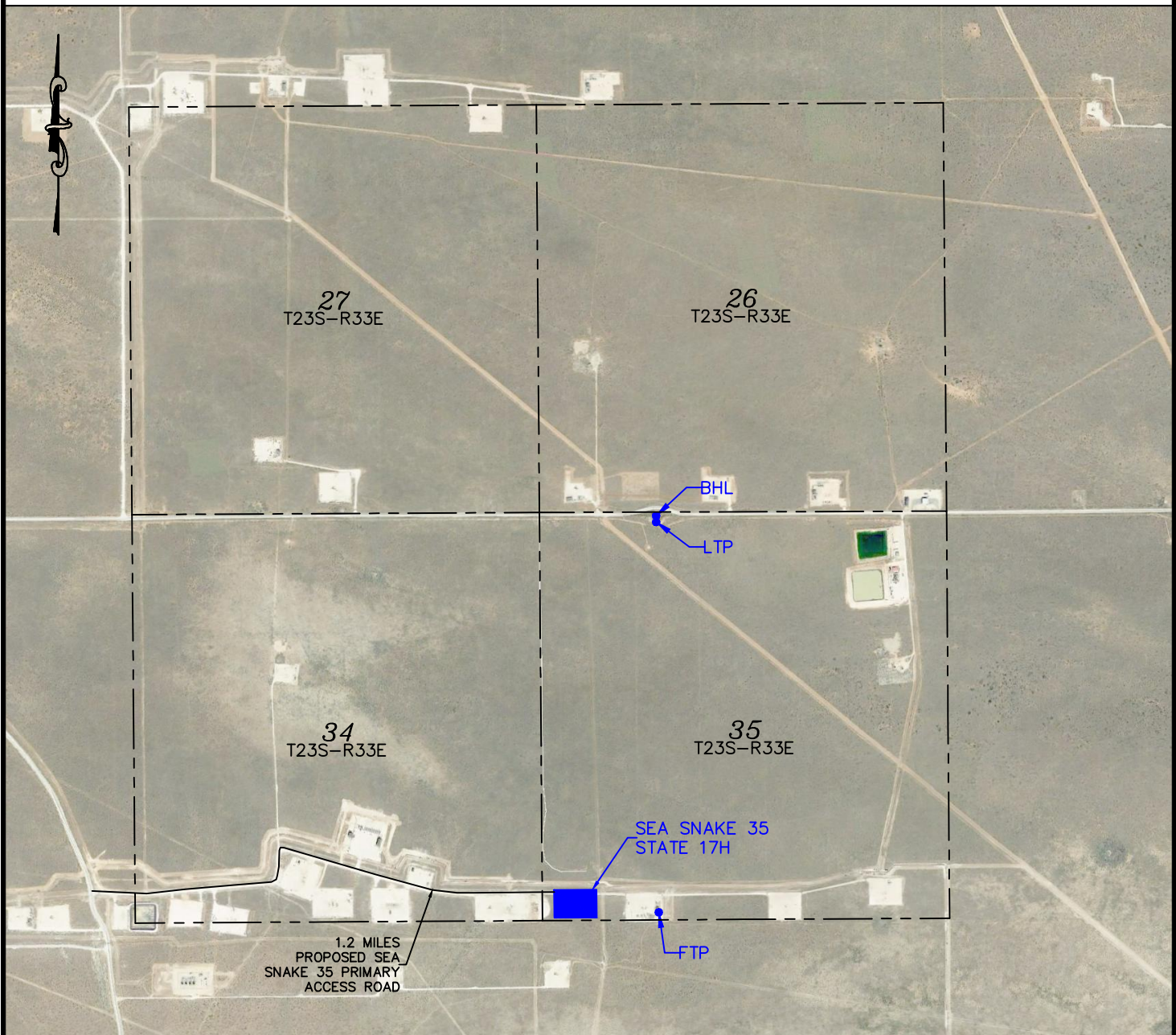
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CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
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SECTION 35, TOWNSHIP 23 SOUTH,
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LEA COUNTY, STATE OF NEW MEXICO



HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

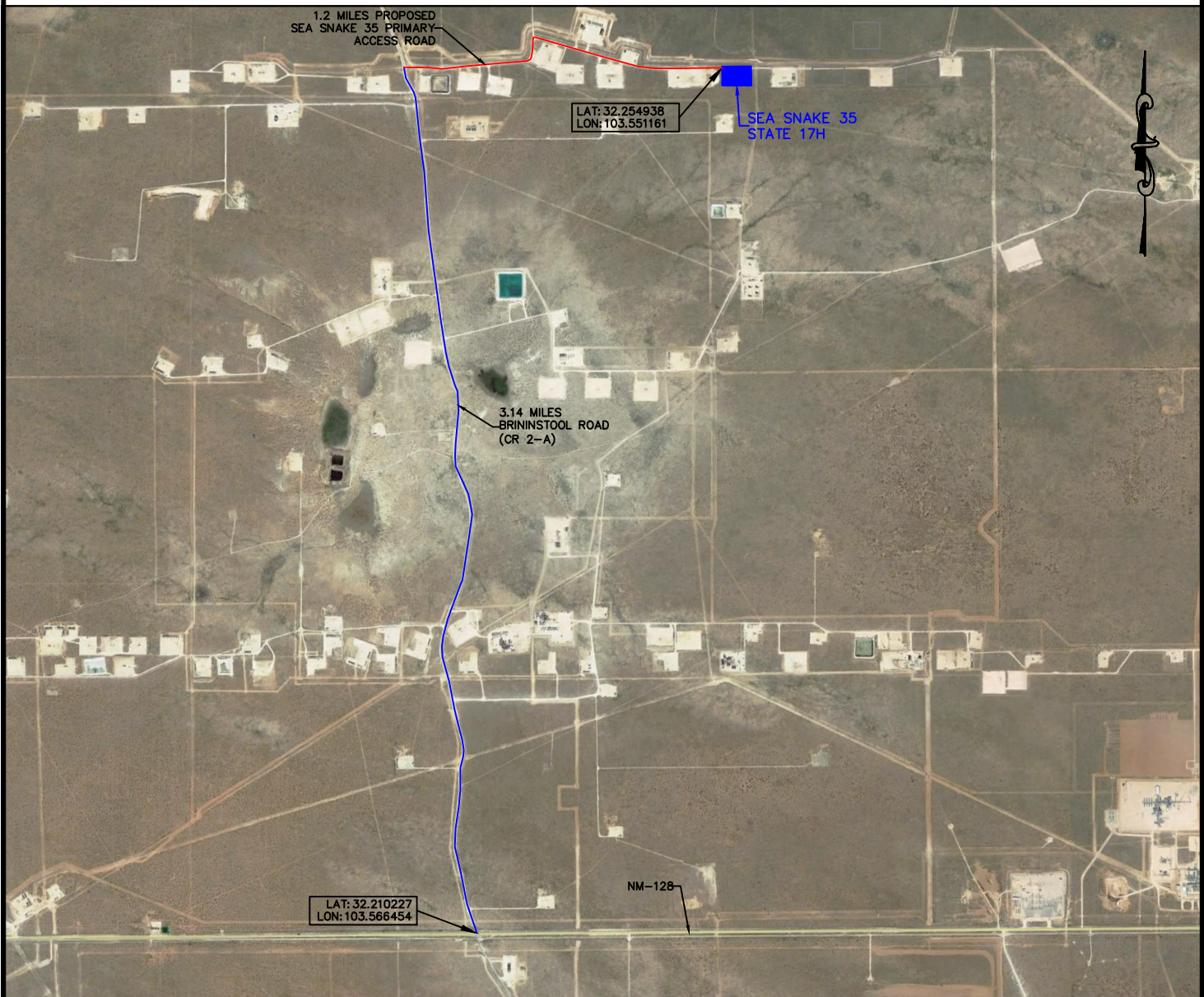
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CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
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AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

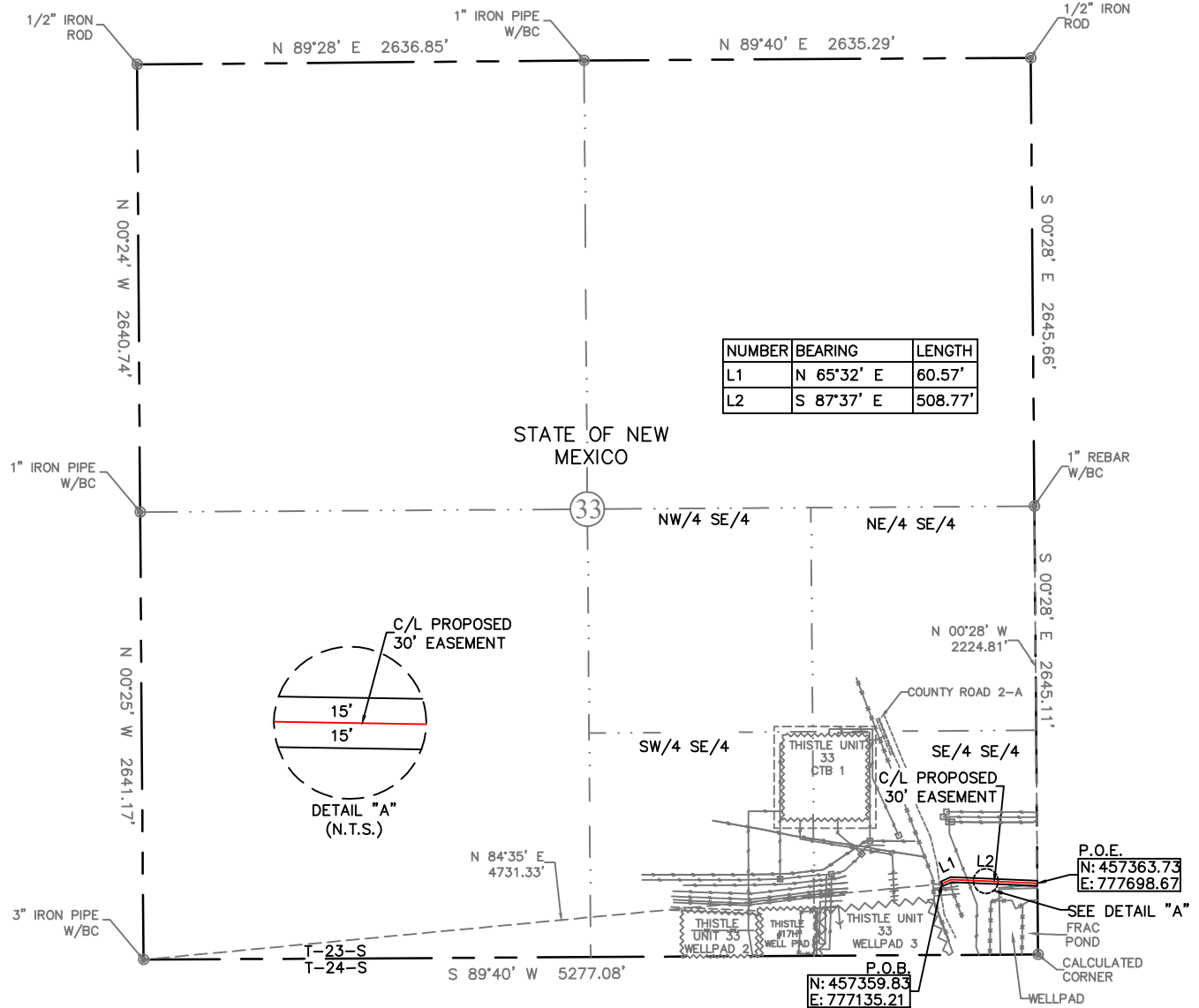
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:

devon

EXHIBIT "A"
SECTION 33, T23S-R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO



QUARTER/ QUARTER	30' EASEMENT AREA	FEET	RODS
SE/4 OF SE/4	0.392 ACRES	569.34'	34.51

SEE THE ATTACHED LEGAL DESCRIPTION

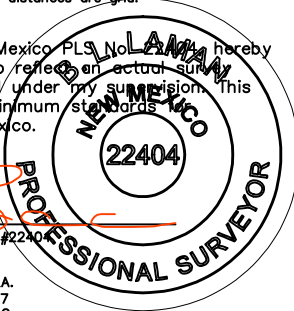
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico Professional Surveyor, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000



B.L. Laman
Date Signed: 12-06-2019
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
DANIEL SHOOK

Date: 12/05/2019

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE 35
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT

ON THE PROPERTY OF

STATE OF NEW MEXICO

SECTION 33, T23S-R33E, N.M.P.M.

LINE NUMBER:

WBS NUMBER:
XX-130853.01.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
12/2019

**SECTION 33, T23S-R33E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

**LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
STATE OF NEW MEXICO**

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter of the southeast quarter (SE ¼ SE ¼) of Section 33, Township 23 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 3" iron pipe w/BC found for the southwest corner of Section 33, T23S-R33E, N.M.P.M., Lea County, New Mexico;

Thence N 84°35' E, a distance of 4731.33' to the **Point of Beginning** of this easement having coordinates of Northing=457359.83 feet, Easting=777135.21 feet, and continuing the following courses;

Thence N 65°32' E, a distance of 60.57' to an angle point;

Thence S 87°37' E, a distance of 508.77' to the **Point of Ending** having coordinates of Northing=457363.73 feet, Easting=777698.67 feet, being in the east line of Section 33, from said point a 1" rebar w/ BC found for the east quarter corner of Section 33, T23S-R33E, N.M.P.M., Lea County, New Mexico bears N 00°28' W a distance of 2224.81', covering **569.34' or 34.51 rods** and having an area of **0.392 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404

Date Signed: 12/06/2019

Horizon Row, LLC

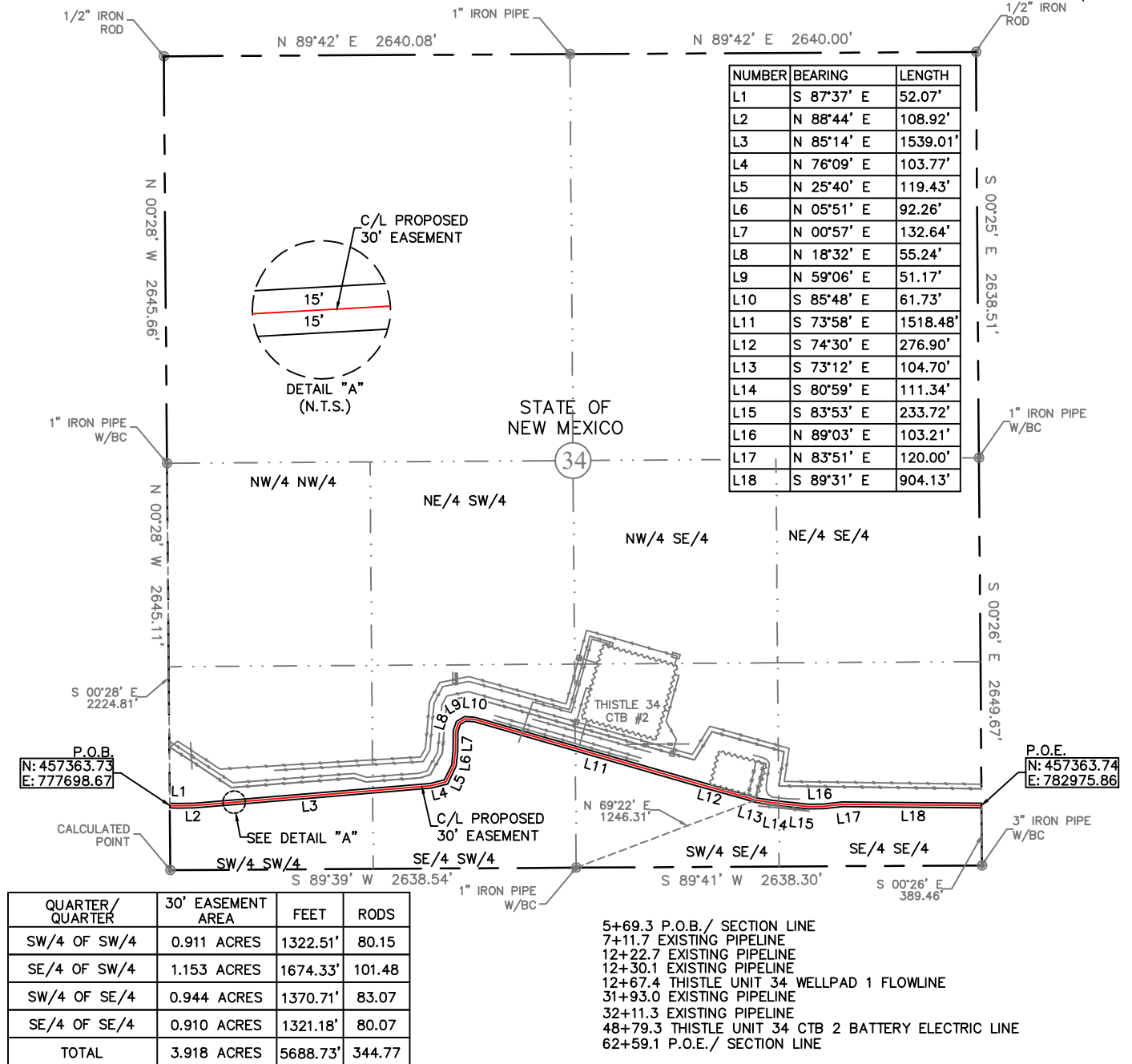
P.O. Box 548, Dry Creek, LA

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
SECTION 34, T23S-R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO



SEE THE ATTACHED LEGAL DESCRIPTION

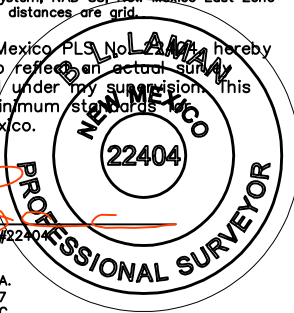
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000



B.L. Laman
Date Signed: 12-06-2019
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
DANIEL SHOOK

Date: 12/05/2019

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE 35
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO

SECTION 34, T23S-R33E, N.M.P.M.

LINE NUMBER:

WBS NUMBER:
XX-130853.01.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
12/2019

**SECTION 34, T23S-R33E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

**LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
STATE OF NEW MEXICO**

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter of the southwest quarter (SW ¼, SW¼) and the southeast quarter of the southwest quarter (SE ¼, SW ¼) and the southwest quarter of the southeast quarter (SW ¼, SE ¼) and the southeast quarter of the southeast quarter (SE ¼, SE ¼) of Section 34, Township 23 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC found for the west quarter corner of Section 34, T23S-R33E, N.M.P.M., Lea County, New Mexico;

Thence S 00°28' E, a distance of 2224.81' to the **Point of Beginning** of this easement being in the west line of Section 34, having coordinates of Northing=457363.73 feet, Easting=777698.67 feet and continuing the following course;

Thence S 87°37' E, a distance of 52.07' to an angle point;

Thence N 88°44' E, a distance of 108.92' to an angle point;

Thence N 85°14' E, a distance of 1539.01' to an angle point;

Thence N 76°09' E, a distance of 103.77' to an angle point;

Thence N 25°40' E, a distance of 119.43' to an angle point;

Thence N 05°51' E, a distance of 92.26' to an angle point;

Thence N 00°57' E, a distance of 132.64' to an angle point;

Thence N 18°32' E, a distance of 55.24' to an angle point;

Thence N 59°06' E, a distance of 51.17' to an angle point;

Thence S 85°48' E, a distance of 61.73' to an angle point;

Thence S 73°58' E, a distance of 1518.48' to an angle point;

Thence S 74°30' E, a distance of 276.90' to an angle point;

Thence S 73°12' E, a distance of 104.70' to an angle point;

Thence S 80°59' E, a distance of 111.34' to an angle point;

Thence S 83°53' E, a distance of 233.72' to an angle point;

Thence N 89°03' E, a distance of 103.21' to an angle point;

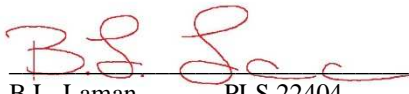
Thence N 83°51' E, a distance of 120.00' to an angle point;

Thence S 89°31' E, a distance of 904.13' to the **Point of Ending** of this easement being in the east line of Section 34, having coordinates of Northing=457363.74 feet, Easting=782975.86 feet, from said point a 3" iron pipe w/BC found for the southeast corner of Section 34, T23S-R33E, N.M.P.M., Lea County, New Mexico bears S 00°26' E a distance of 389.46', covering **5688.73' or 344.77 rods** and having an area of **3.918 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404

Date Signed: 12/06/2019

Horizon Row, LLC

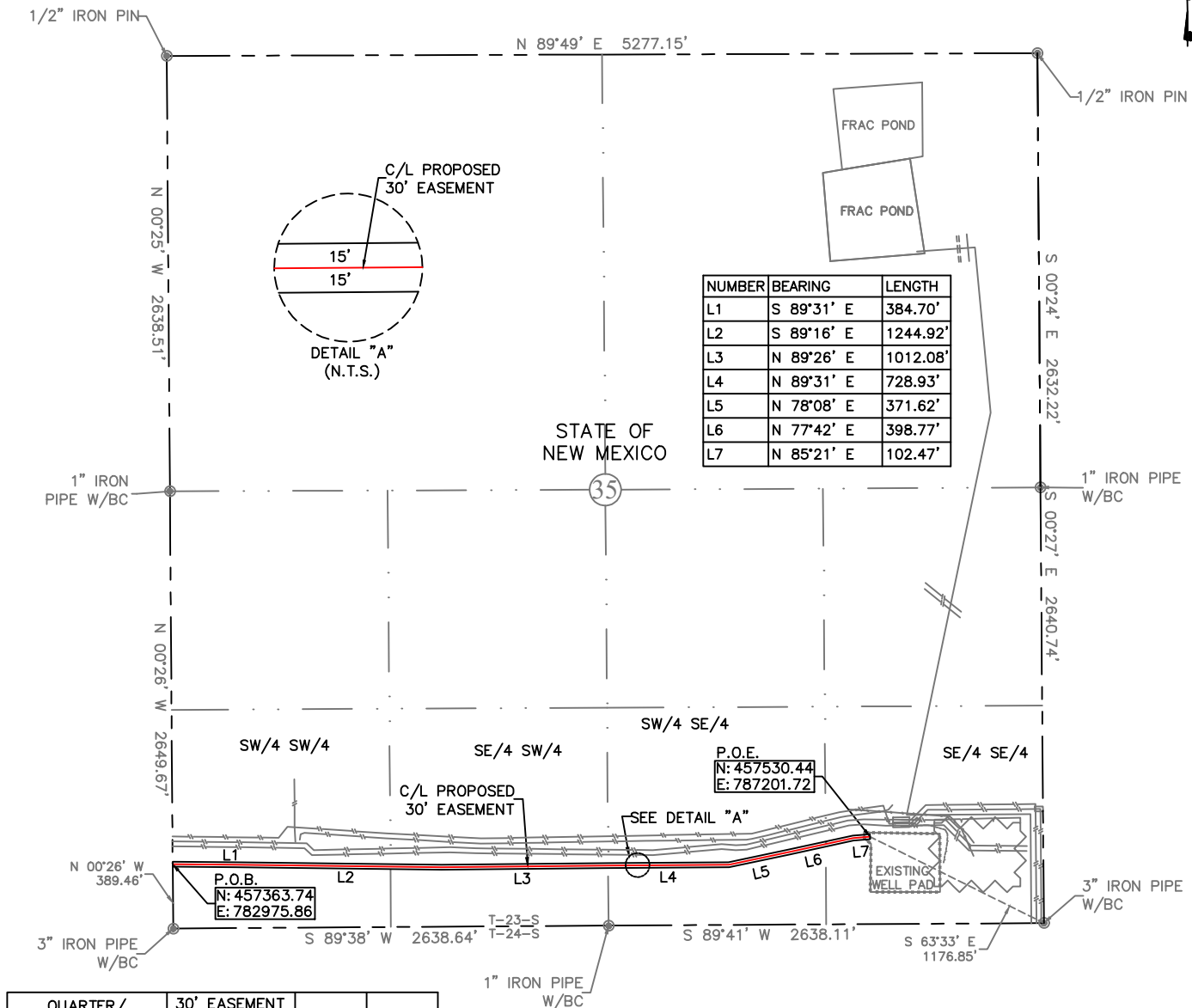
P.O. Box 548, Dry Creek, LA

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
SECTION 35, T23S-R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

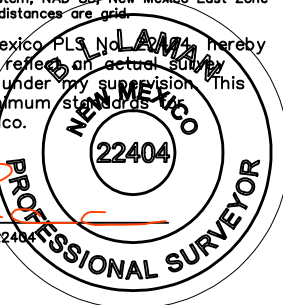


SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico Professional Surveyor, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 12-06-2019
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
DANIEL SHOOK

Date: 12/05/2019

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE 35
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO

SECTION 35, T23S-R33E, N.M.P.M.

LINE NUMBER:

WBS NUMBER:
XX-130853.01.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE SURVEY:
12/2019

0 1000 2000



**SECTION 35, T23S-R33E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

**LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
STATE OF NEW MEXICO**

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out the southwest quarter of the southwest quarter (SW $\frac{1}{4}$, SW $\frac{1}{4}$) and the southeast quarter of the southwest quarter (SE $\frac{1}{4}$, SW $\frac{1}{4}$) and the southwest quarter of the southeast quarter (SW $\frac{1}{4}$, SE $\frac{1}{4}$) and the southeast quarter of the southeast quarter (SE $\frac{1}{4}$, SE $\frac{1}{4}$) of Section 35, Township 23 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land conveyed to the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 3" iron pipe w/BC for the southwest corner of Section 35, T23S-R33E, N.M.P.M., Lea County, New Mexico;

Thence N 00°26' W a distance of 389.46' to the **Point of Beginning** of this easement, being in the west line of Section 35, having coordinates of Northing=457363.74, Easting=782975.86 feet and continuing the following courses;

Thence S 89°31' E, a distance of 384.70' to an angle point;
Thence S 89°16' E, a distance of 1244.92' to an angle point;
Thence N 89°26' E, a distance of 1012.08' to an angle point;
Thence N 89°31' E, a distance of 728.93' to an angle point;
Thence N 78°08' E, a distance of 371.62' to an angle point;
Thence N 77°42' E, a distance of 398.77' to an angle point;

Thence N 85°21' E, a distance of 102.47' to the **Point of Ending**, having coordinates of Northing=457530.44, Easting=787201.72 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 35, T23S-R33E bears S 63°33' E a distance of 1176.85', covering **4243.49' or 257.18 rods** and having an area of **2.923 acres**.

NOTES:

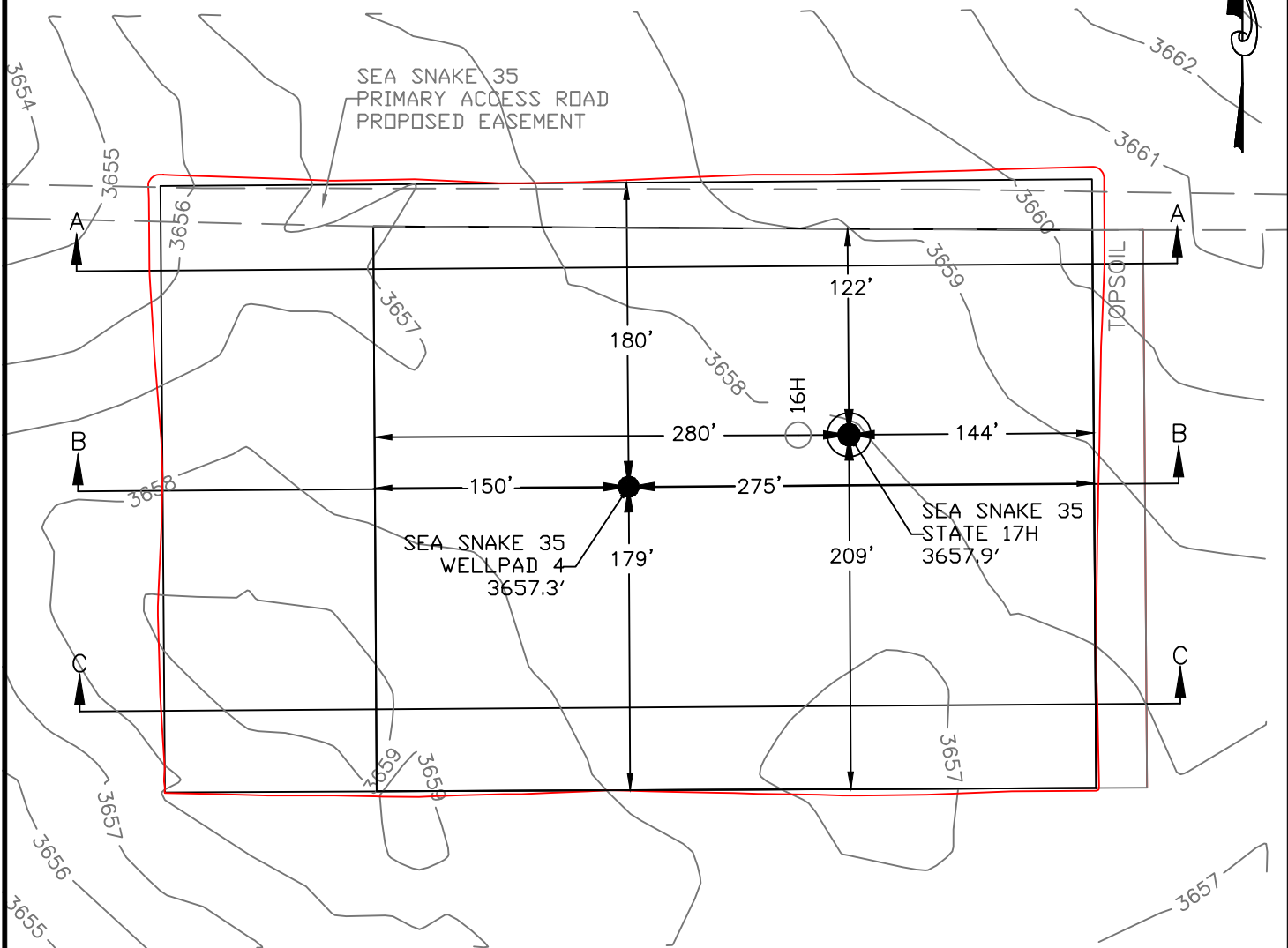
Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404
Date Signed: 12/06/2019
Horizon Row, LLC
P.O. Box 548, Dry Creek, LA
(903) 388-3045 70637
Employee of Horizon Row, LLC



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
PLAN VIEW



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



EARTHWORK QUANTITIES FOR
SEA SNAKE 35 WELLPAD 4

CUT	FILL	NET
2,391 CY	2,392 CY	1 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

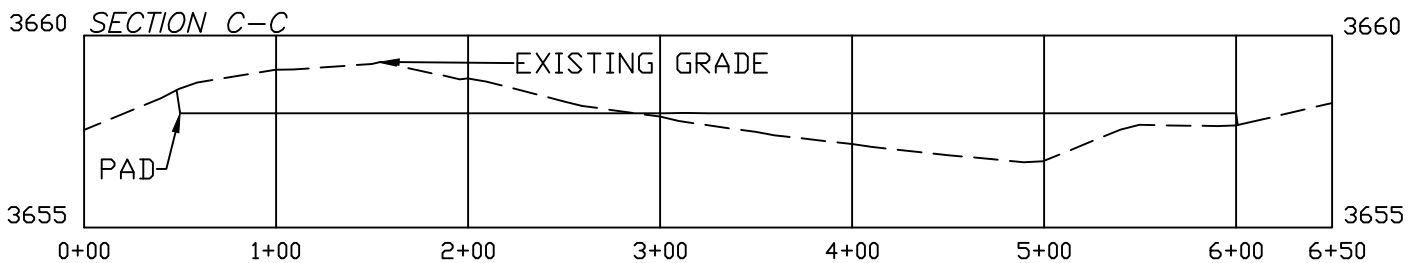
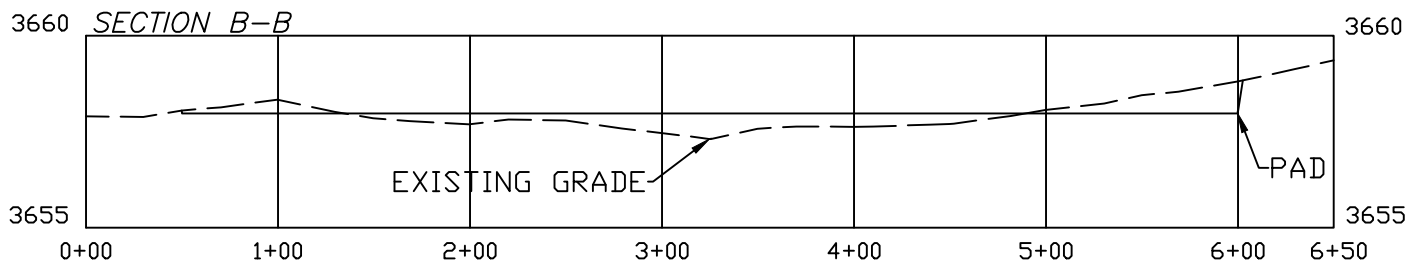
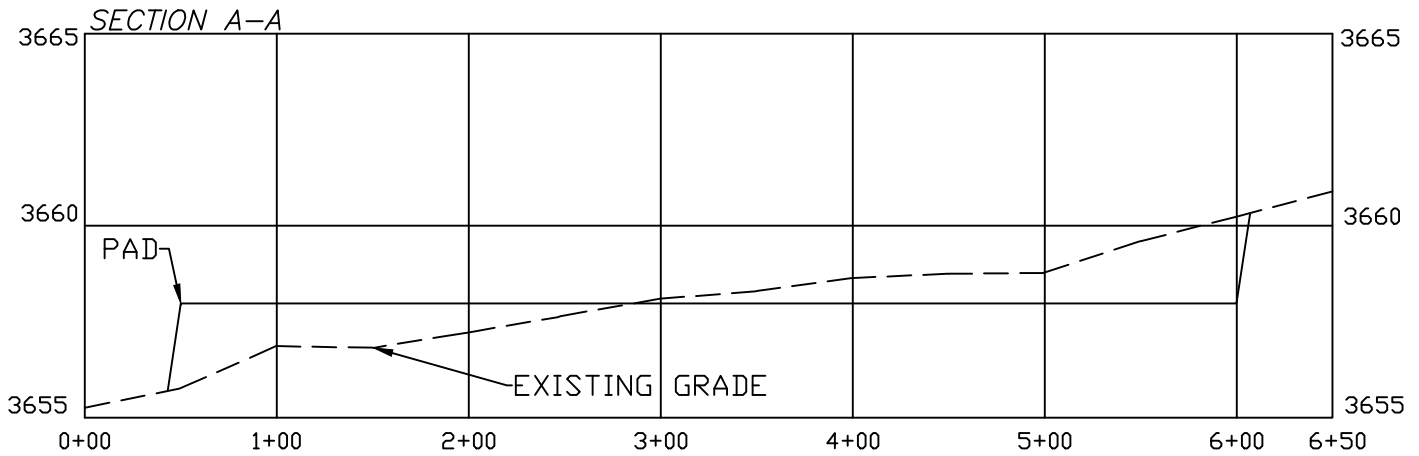
Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:



SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO CROSS SECTIONS



DEVON ENERGY PRODUCTION COMPANY, L.P.
SEA SNAKE 35 STATE 17H
LOCATED 247 FT. FROM THE SOUTH LINE
AND 561 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

SCALE 1" = 100' HORIZONTAL
SCALE 1" = 5' VERTICAL

EARTHWORK QUANTITIES FOR
SEA SNAKE 35 WELLPAD 4

CUT	FILL	NET
2,391 CY	2,392 CY	1 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 12/04/2019

Drawn for:



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

GAS CAPTURE PLAN

Date: 1/27/2020

☒ Original

Operator & OGRID No.: [6137] DEVON ENERGY PRODUCTION COMPANY, LP

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SEA SNAKE 35 STATE #017H	30-025-46792	M-35-23S-33E	0247S 0561W	2200	None	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 535' of pipeline to connect the facility to Low Pressure gathering system. DEVON ENERGY PRODUCTION COMPANY, LP provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, DEVON ENERGY PRODUCTION COMPANY, LP and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 34E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is DEVON ENERGY PRODUCTION COMPANY, LP's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 277364

PERMIT COMMENTS

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102		API Number: 30-025-46792
		Well: SEA SNAKE 35 STATE #017H

Created By	Comment	Comment Date
drebecca	Drilling Plan, Directional Survey, AC Plan, C-102 & GCP will be sent overnight via FedEx	1/16/2020

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

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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

Form APD Conditions

Permit 277364

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102	API Number: 30-025-46792
	Well: SEA SNAKE 35 STATE #017H

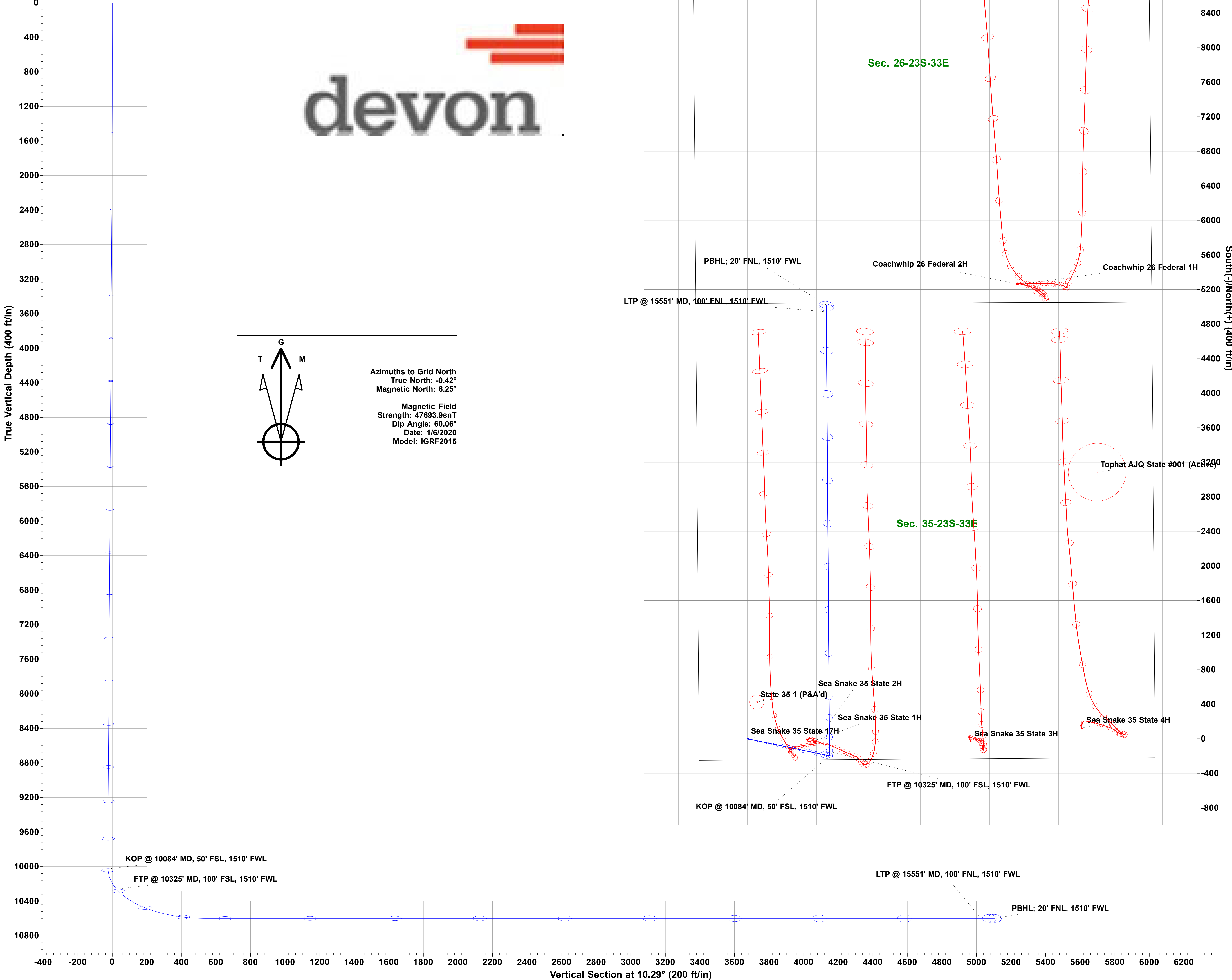
OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.

Devon Energy

WELL DETAILS: Sea Snake 35 State 17H

RKB @ 3682.90ft 3657.90			
Northing 457224.94	Easting 783537.93	Latitude 32.254557	Longitude -103.549850

SECTION DETAILS					Permit Plan 1				
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	
	1790.74	6.91	101.73	1789.06	-8.45	40.72	1.00	-1.04	
	9273.61	6.91	101.73	9217.62	-191.37	921.85	0.00	-23.62	
5	9734.10	0.00	0.00	9677.00	-197.00	949.00	1.50	-24.31	
6	10084.14	0.00	0.00	10027.04	-197.00	949.00	0.00	-24.31	KOP @ 10084' MD, 50' FSL, 1510' FSL
7	10984.14	90.00	359.59	10600.00	375.94	944.91	10.00	538.69	
8	15630.54	90.00	359.59	10600.00	5022.23	911.77	0.00	5104.32	PBHL; 20' FNL, 1510' FSL





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

Hydrogen Sulfide (H₂S) Contingency Plan

For

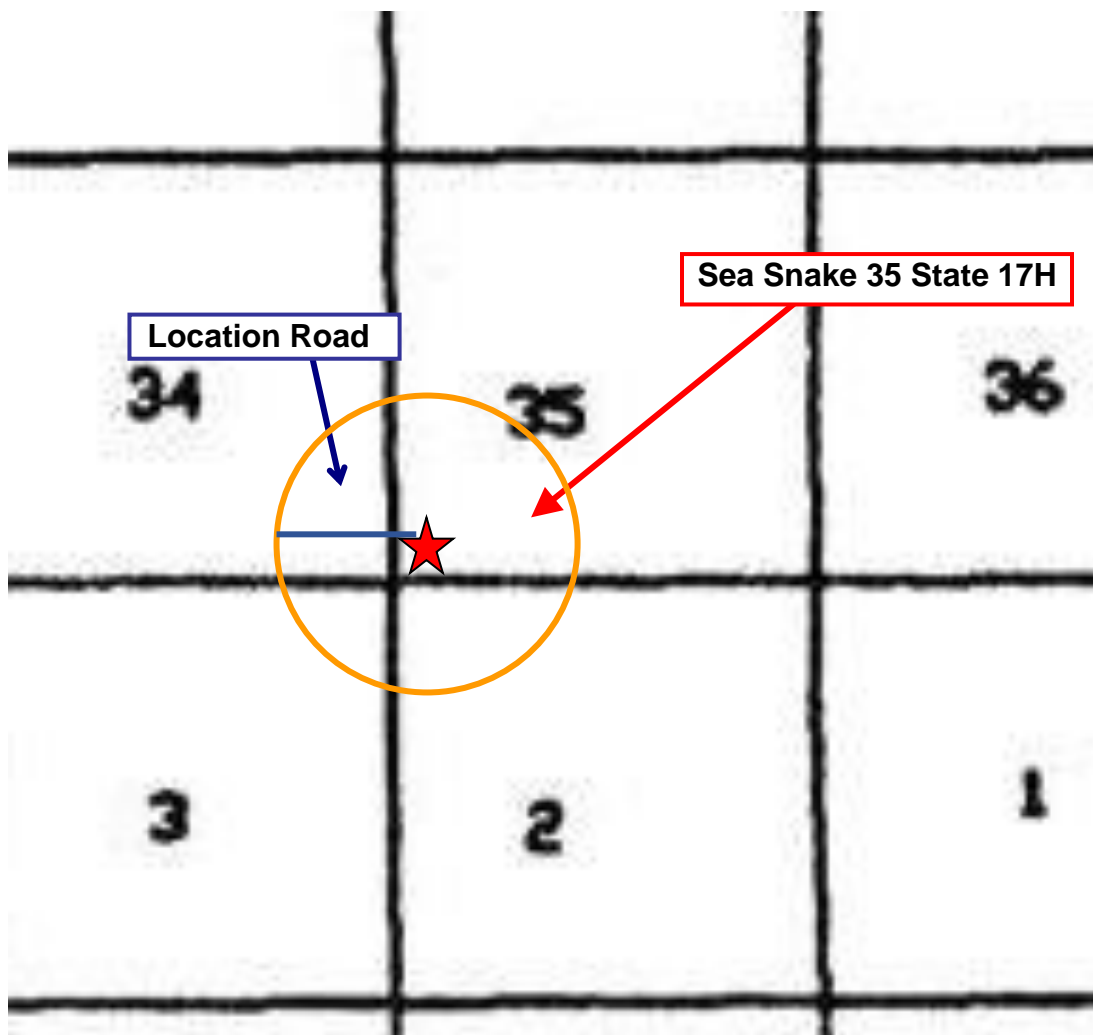
Sea Snake 35 State 17H

**Sec-35 T-23S R-33E
247' FSL & 561' FWL
LAT. = 32.254557' N (NAD83)
LONG = 103.549850' W**

Lea County NM

Sea Snake 35 State 17H

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



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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

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

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 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

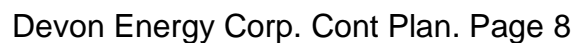
7. Well testing:

- 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.

<u>Devon Energy Corp. Company Call List</u>		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
<u>Give GPS position:</u>	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small





Sea Snake 35 State 17H

1. Geologic Formations

TVD of target	10600	Pilot hole depth	N/A
MD at TD:	15631	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1333		
Salt	1869		
Base of Salt	5033		
Delaware	5283		
Bone Spring 1st	10099		
Bone Spring 2nd	10812		
Bone Spring 3rd	11712		
Wolfcamp	12162		

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

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2. Casing Program

Hole Size	Casing Interval		Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
	From	To							
17 1/2	0	1358 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	5258 TVD	9 5/8	40.0	J-55	BTC	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth will be revised accordingly if needed.
- A variance is requested to waive the centralizer requirement for the Intermediate casing and production casing.

Casing Program (Alternative Design)

Hole Size	Casing Interval		Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
	From	To							
17 1/2	0	1358 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	8,300' TVD	9 5/8	40.0	J-55	BTC	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth will be revised accordingly if needed.
- A variance is requested to waive the centralizer requirement for the Intermediate casing and production casing.

Sea Snake 35 State 17H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	1021	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	580	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1 Two Stage w/ DV @ TVD of Delaware	570	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
	566	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	580	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	454	500' Tieback	9.0	3.3	Lead: Class H / C + additives
	1070	KOP	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%

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Cementing Program (3-String Alternative Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	1021	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	958	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1 Two Stage w/ DV @ TVD of Delaware	934	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
	412	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.4	Squeeze Lead: Class C Cement + additives
	580	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	238	500' Tieback	9.0	3.3	Lead: Class H / C + additives
	1070	KOP	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%

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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	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*		

5. Mud Program (Three String Design)

Section	Type	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
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6. Logging and Testing Procedures

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

Additional logs planned		Interval
	Resistivity	
	Density	
X	CBL	Production casing

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X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	4961
Abnormal temperature	No

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

Hydrogen 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	H ₂ S is present
Y	H ₂ S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOC 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

Sea Snake 35 State 17H

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 nipped up and tested on the wellhead before drilling operations commences on each well.

a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan

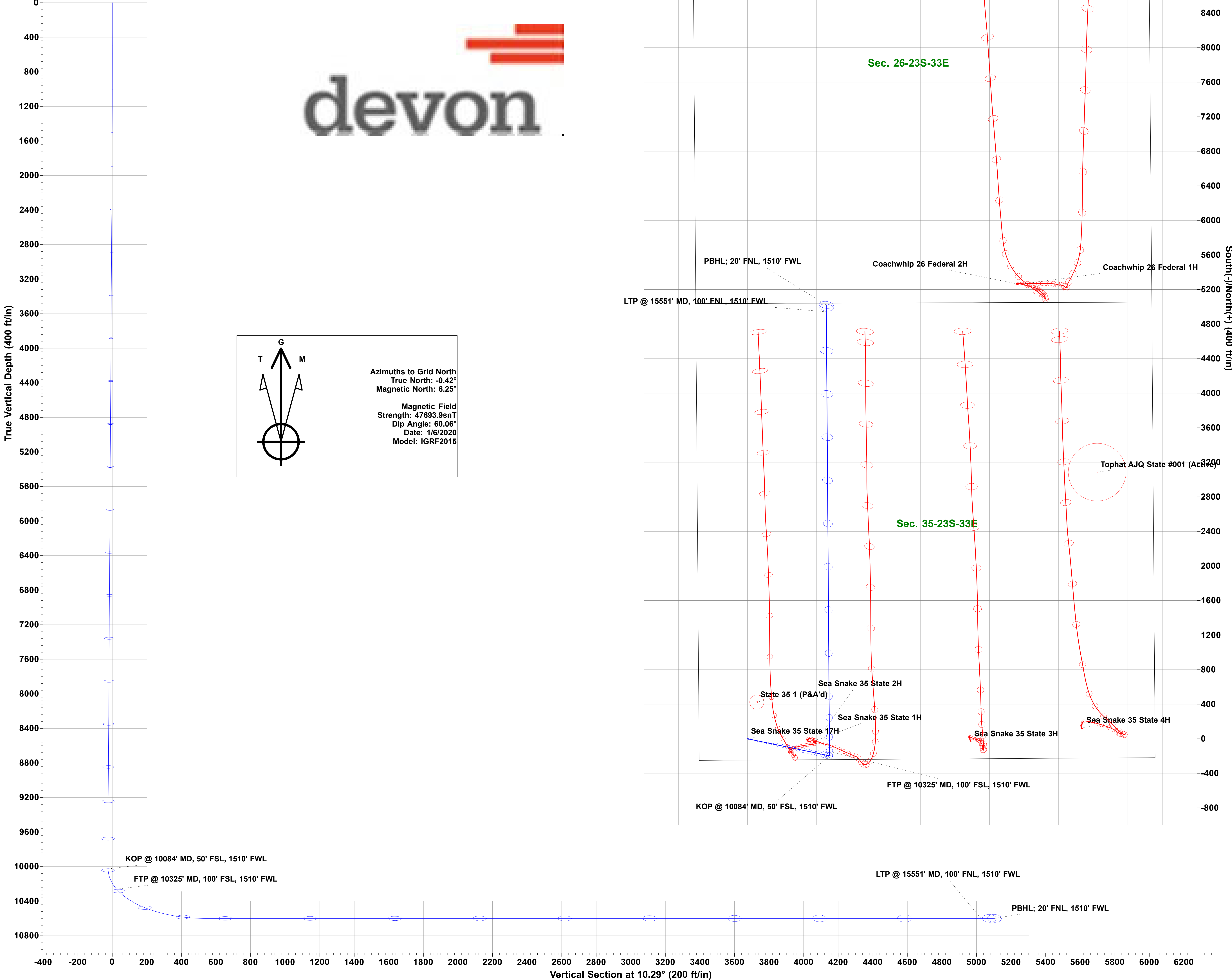
 Other, describe

Devon Energy

WELL DETAILS: Sea Snake 35 State 17H

RKB @ 3682.90ft 3657.90			
Northing 457224.94	Easting 783537.93	Latitude 32.254557	Longitude -103.549850

SECTION DETAILS					Permit Plan 1				
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	
	1790.74	6.91	101.73	1789.06	-8.45	40.72	1.00	-1.04	
	9273.61	6.91	101.73	9217.62	-191.37	921.85	0.00	-23.62	
5	9734.10	0.00	0.00	9677.00	-197.00	949.00	1.50	-24.31	
6	10084.14	0.00	0.00	10027.04	-197.00	949.00	0.00	-24.31	KOP @ 10084' MD, 50' FSL, 1510' FSL
7	10984.14	90.00	359.59	10600.00	375.94	944.91	10.00	538.69	
8	15630.54	90.00	359.59	10600.00	5022.23	911.77	0.00	5104.32	PBHL; 20' FNL, 1510' FSL



Devon Energy

WELL DETAILS: Sea Snake 35 State 17H

RKB @ 3682.90ft 3657.90			
Northing 457224.94	Easting 783537.93	Latitude 32.254557	Longitude -103.549850

SECTION DETAILS					Permit Plan 1				
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	
	1790.74	6.91	101.73	1789.06	-8.45	40.72	1.00	-1.04	
	9273.61	6.91	101.73	9217.62	-191.37	921.85	0.00	-23.62	
5	9734.10	0.00	0.00	9677.00	-197.00	949.00	1.50	-24.31	
6	10084.14	0.00	0.00	10027.04	-197.00	949.00	0.00	-24.31	KOP @ 10084' MD, 50' FSL, 1510' FSL
7	10984.14	90.00	359.59	10600.00	375.94	944.91	10.00	538.69	
8	15630.54	90.00	359.59	10600.00	5022.23	911.77	0.00	5104.32	PBHL; 20' FNL, 1510' FSL

