

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

MAY 02 2014

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION

¹ API Number 30-025-41625	² Pool Code 59900	³ Pool Name TRIPLE X; BONE SPRING
⁴ Property Code 40329	⁵ Property Name SEA SNAKE 35 STATE	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3664.8

¹⁰ Surface Location

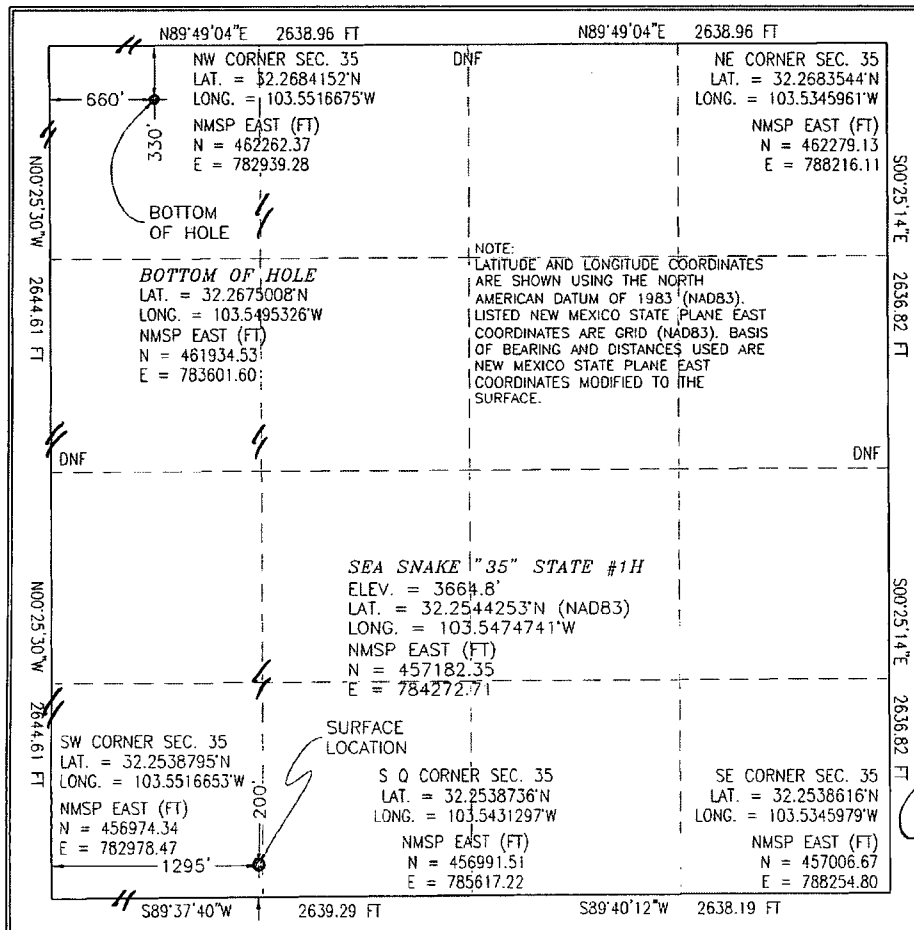
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	23 S	33 E		200	SOUTH	1295	WEST	LEA

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
D	35	23 S	33 E		330	NORTH	660	WEST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

Signature: *[Signature]* Date: 4/28/2014

Printed Name: David H. Cook

E-mail Address: david.cook@dmn.com

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.

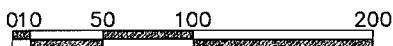
Date of Survey: APRIL 11, 2014

Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: 12797
SURVEY NO. 2295B

PP: 200 FNL & 1295

MAY 08 2014

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



SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 AND CR J2 (BRININSTOOL ROAD) GO NORTHWEST ON CR J2 FOR APPROX. 3.2 MILES TO CALICHE LEASE ROAD ON RIGHT PAST FRAC POND, GO EAST ON CALICHE LEASE ROAD APPROX. 0.46 MILES, TURN LEFT GO NORTH ABOUT 450', TURN RIGHT GO ABOUT 0.42 MILES TO PROPOSED ROAD ON LEFT. FOLLOW FLAGS ABOUT 2235' TO NORTHWEST CORNER OF PROPOSED PAD.

SEA SNAKE "35" STATE #1H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 1295 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

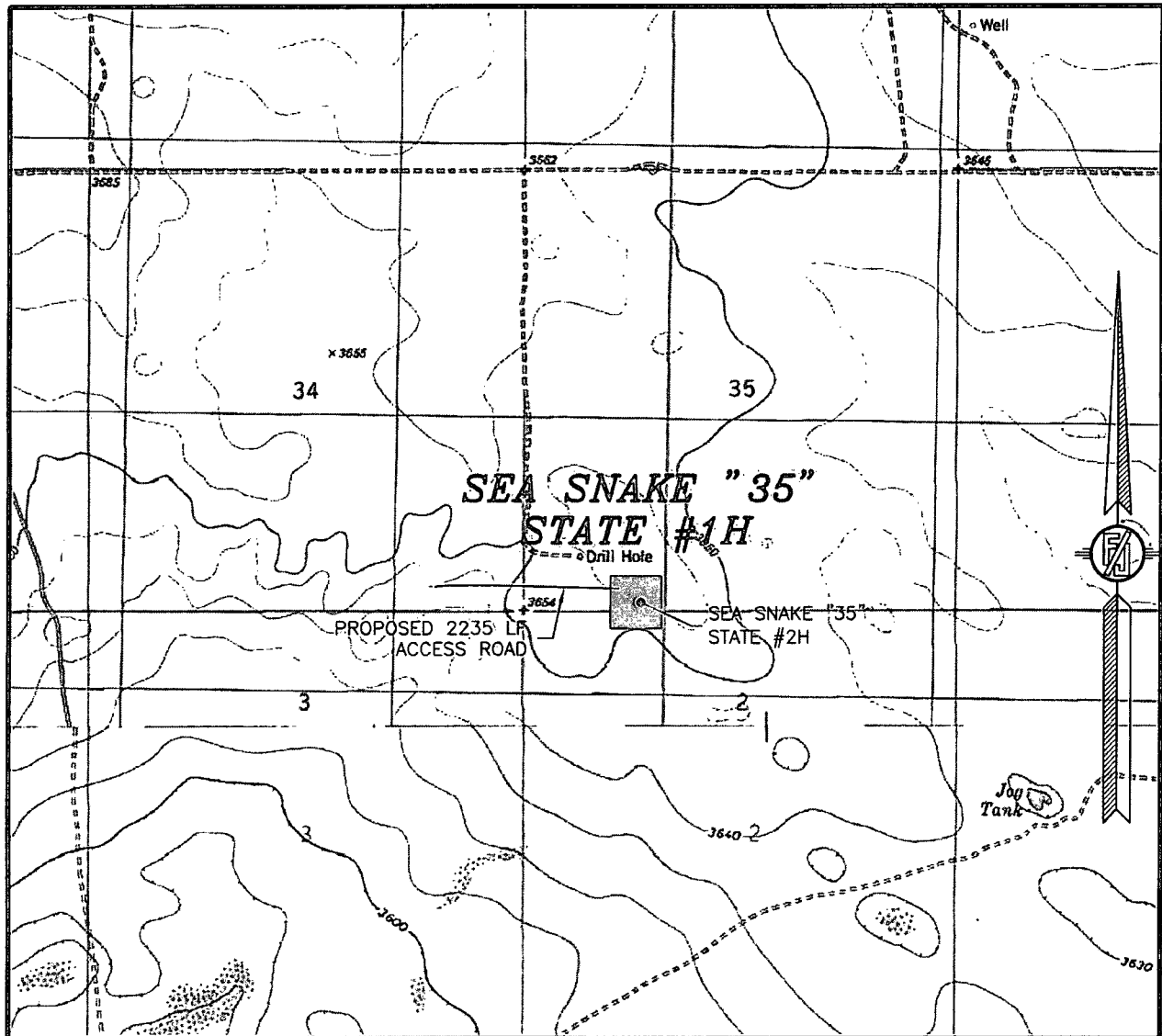
APRIL 11, 2014

SURVEY NO. 2295B

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

301 SOUTH CANAL
(575) 234-3341

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



USGS QUAD MAP:
TIP TOP WELLS

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE "35" STATE #1H

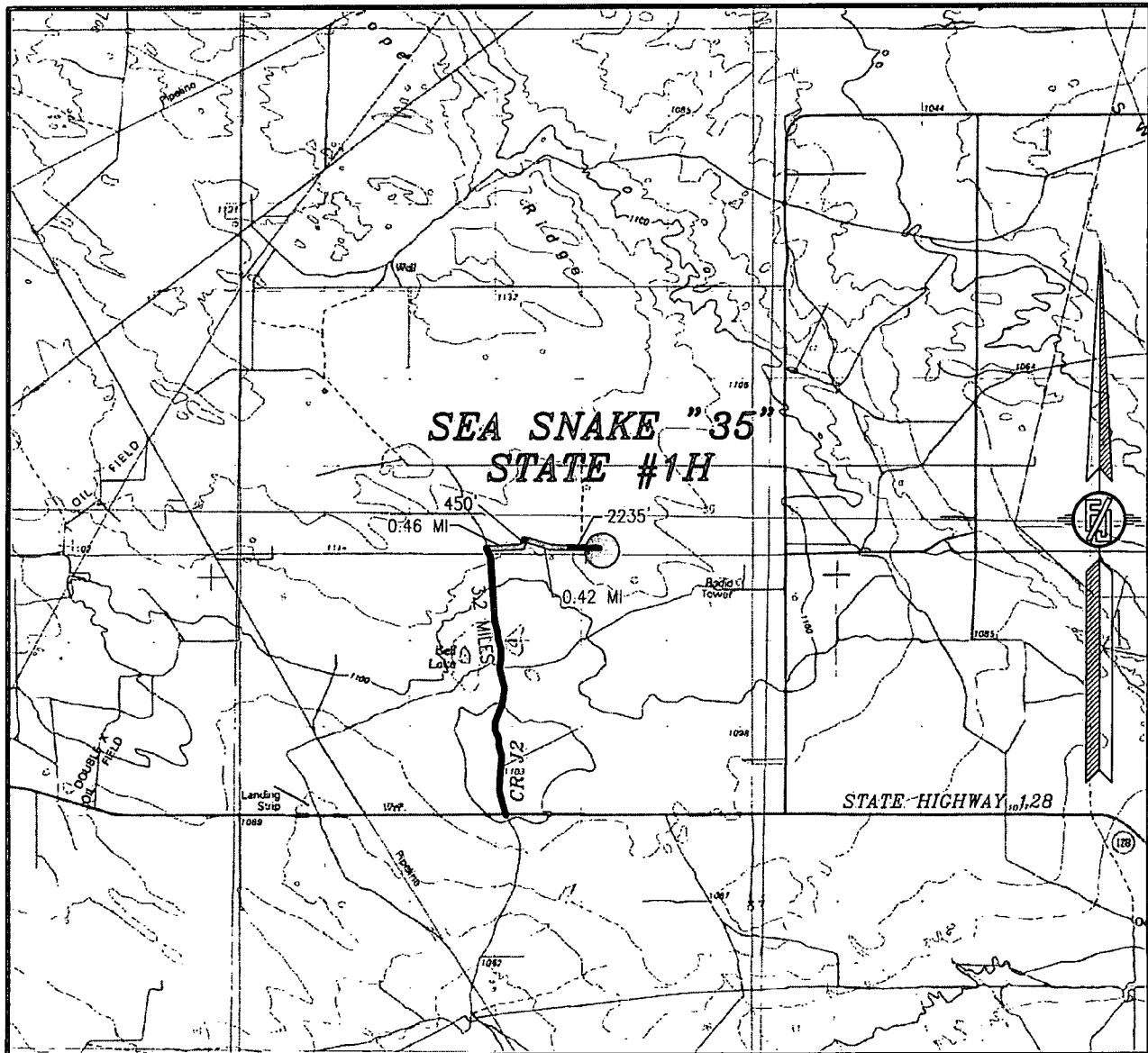
LOCATED 200 FT. FROM THE SOUTH LINE
AND 1295 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 11, 2014

SURVEY NO. 2295B

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

SECTION 35, TOWNSHIP 23 SOUTH, RANGE 33 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.

SEA SNAKE "35" STATE #1H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 1295 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

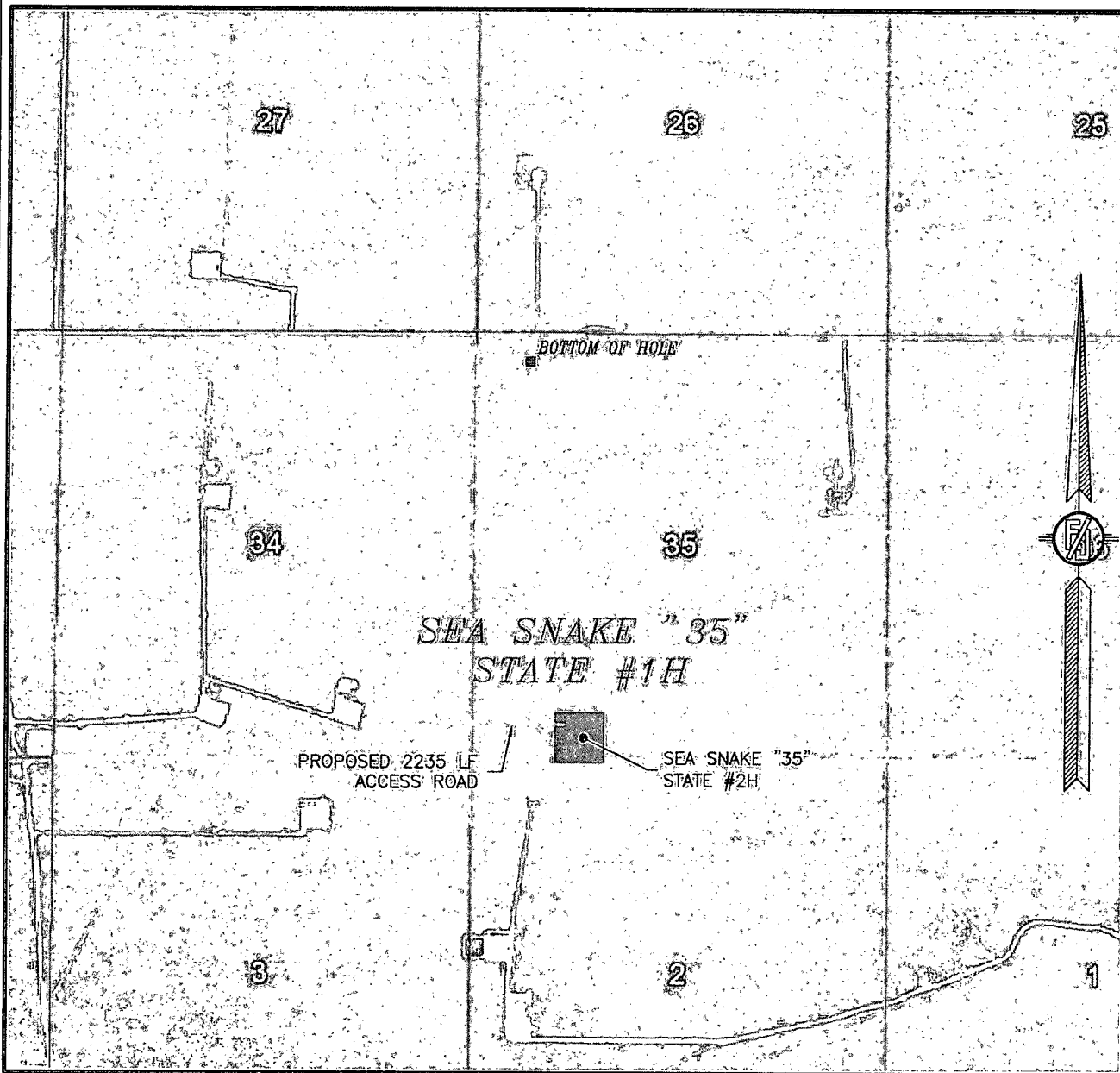
FROM THE INTERSECTION OF STATE HIGHWAY 128 AND CR J2
(BRINSTOOL ROAD) GO NORTHWEST ON CR J2 FOR APPROX. 3.2
MILES TO CALICHE LEASE ROAD ON RIGHT PAST FRAC POND, GO EAST
ON CALICHE LEASE ROAD APPROX. 0.46 MILES, TURN LEFT GO NORTH
ABOUT 450', TURN RIGHT GO ABOUT 0.42 MILES TO PROPOSED ROAD
ON LEFT. FOLLOW FLAGS ABOUT 2235' TO NORTHWEST CORNER OF
PROPOSED PAD.

APRIL 11, 2014

SURVEY NO. 2295B

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

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



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MARCH 2012

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE "35" STATE #1H

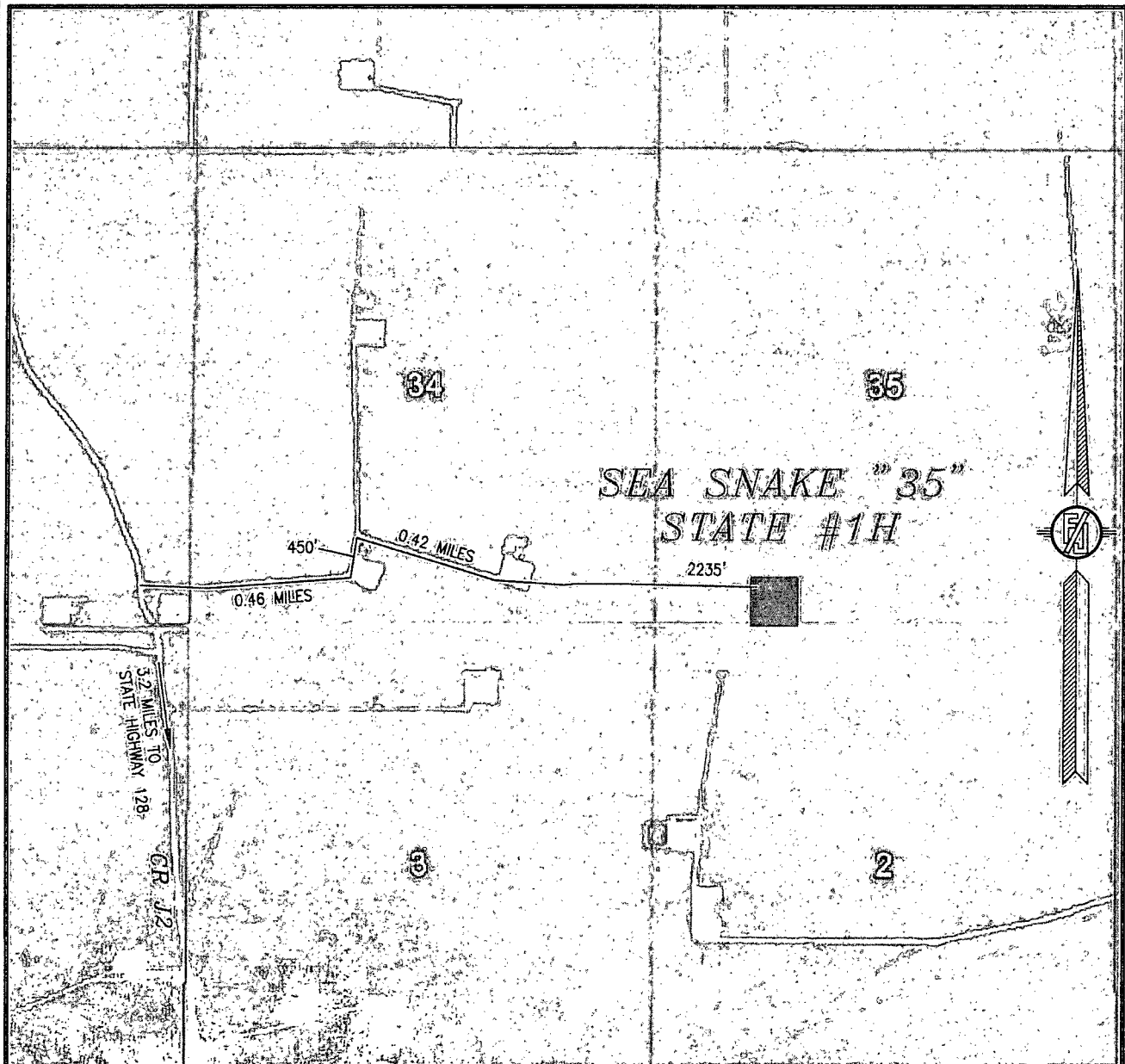
LOCATED 200 FT. FROM THE SOUTH LINE
AND 1295 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 11, 2014

SURVEY NO. 2295B

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

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



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MARCH 2012

DEVON ENERGY PRODUCTION COMPANY, L.P.

SEA SNAKE "35" STATE #1H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 1295 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 11, 2014

SURVEY NO. 2295B

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

DRILLING PROGRAM

Devon Energy Production Company, L.P.

Sea Snake 35 State 1H

1. Geologic Name of Surface Formation: Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:

a. Fresh Water	400'	
b. Rustler	1290'	Barren
c. Top of Salt	1770'	Barren
d. Base of Salt	5090'	Barren
e. Delaware	5190'	Oil / Gas
f. Cherry Canyon	6060'	Oil / Gas
g. Brushy Canyon	7640'	Oil / Gas
h. Bone Spring Lime	9070'	Oil / Gas
i. 1 st Bone Spring SS	10065'	Oil / Gas
j. 2 nd Bone Spring SS	10771'	Oil / Gas
Total Depth	11228' TVD	16051' MD

3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. **Casing Program:**

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 1325'	13-3/8"	0 - 1325'	48	BTC	H-40	1.12	2.51	5.06
12-1/4"	1325'-5200'	9-5/8"	0-5200'	40	LTC	HCK-55	2.07	1.30	3.03
8-3/4"	5200'-10564'	7"	0-10564'	29	BTC	P-110	1.54	2.04	2.25
	10564'-16051'	5-1/2"	10564-16051'	17	BTC	P-110	1.63	2.02	6.09

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 11228'

5. **Proposed mud Circulations System:**

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0 - 1325'	8.4-9.0	30-34	N/C	FW
1325'-5200'	9.8-10.0	28-32	N/C	Brine
5200'-16051'	8.6-9.0	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface Casing	670	13.5	9.08	1.72	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water
	550	14.8	6.34	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate Casing	1360	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	220	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
7 x 5-1/2" Production Casing	440	11	14.94	2.66	Lead	Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake + 76.5% Fresh Water
	880	14.5	5.31	1.20	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

Surface @ 0'
 Intermediate @ 0'
 Production @ 4200'

Notes:

- Cement volumes Surface 100%, Intermediate 50%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

devon

Sea Snake 35 State 1H
Lea Co, NM



Plan Data for Sea Snake 35 State 1H

Plan Point Information:									
Dogleg Severity Unit: %/100.00ft Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	457182.35	784272.71	0.00	0.00
10564.07	0.00	0.00	10564.07	0.00	0.00	457182.35	784272.71	0.00	0.00
11026.63	55.51	270.00	10957.60	-0.01	-207.08	457182.34	784065.63	-0.01	12.00
11776.66	90.00	0.00	11228.00	477.45	-600.63	457659.80	783672.08	477.45	12.00
16051.39	90.00	0.00	11228.00	4752.18	-600.63	461934.53	783672.08	4752.18	0.00

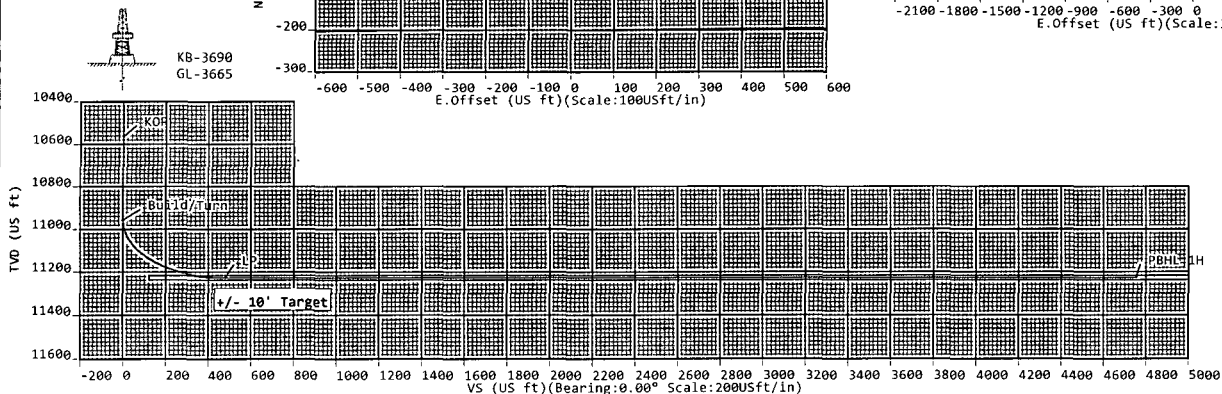
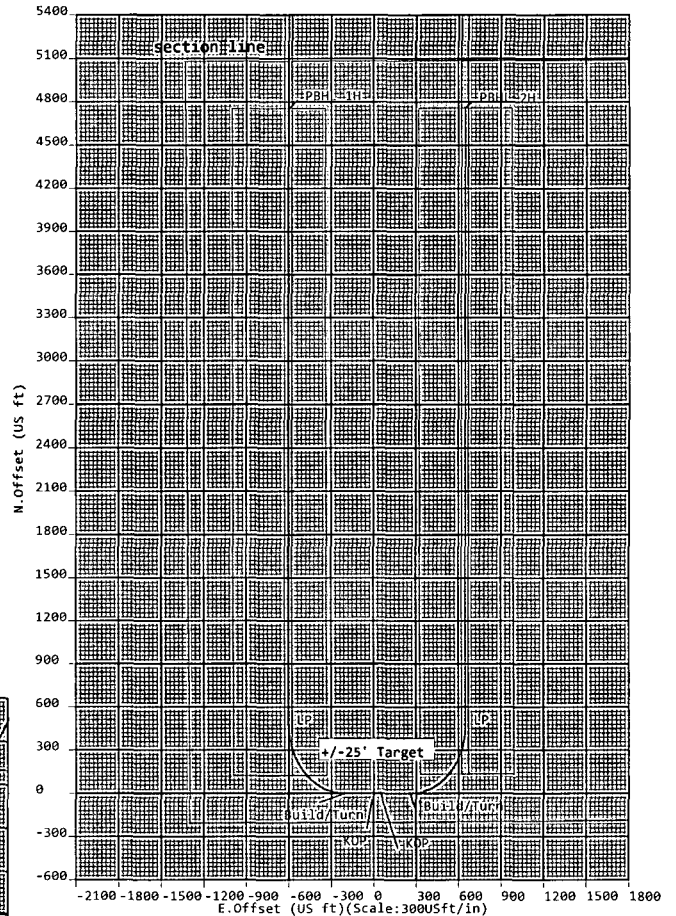
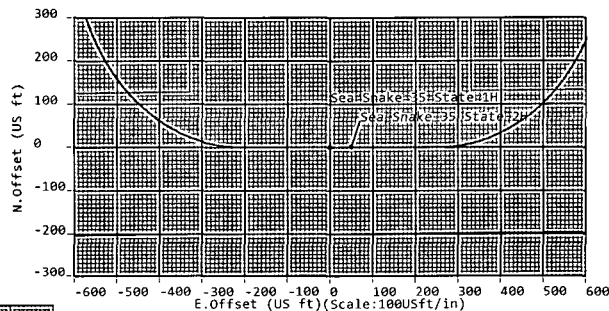
Plan Data for Sea Snake 35 State 1H

Target Set Information:									
Name: Sea Snake 35 State 1H									
Position offsets from Slot centre									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment		
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)				
PBHL 1H	11228.00	4752.18	-600.63	461934.53	783672.08	Cuboid			

Plan Data for Sea Snake 35 State 1H

Slot: Sea Snake 35 State 1H									
Position:									
Offset is from Site centre									
+N/-S:	0.00USft	Northing:	457182.35USft	Latitude:	32°15'15.9"				
+E/-W:	0.00USft	Easting:	784272.71USft	Longitude:	-103°32'50.9"				
						Elevation Above VRD: 3665.00USft			

Sea Snake 35 State 1H
Sea Snake 35 State 2H



Sign Off: Russell Joyner

5D Plan Report**Devon Energy**

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Sea Snake 35 State 1,2H Pad*
Well Name: *Sea Snake 35 State 1H*
Plan: *P1:V2*

30 April 2014



Sea Snake 35 State 1H

Field Name Lea Co, NM Nad 83 NMEZ	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD83 / New-Mexico East (ftUS)			
	Comment :			
Site Name Sea Snake 35 State 1,2H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.42	
	Position	Northing : 457182.35 US ft	Latitude : 32° 15' 15.93"	
		Easting : 784272.71 US ft	Longitude : -103° 32' 50.91"	
	Elevation above Mean Sea Level: 3665.00 US ft			
Comment :				
Slot Name Sea Snake 35 State 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 457182.35 US ft	Latitude : 32°15'15.93"	
	+E / -W : 0.00 US ft	Easting : 784272.71 US ft	Longitude : -103°32'50.91"	
	Elevation above Mean Sea Level : 3665.00 US ft			
Comment :				
Well Name Sea Snake 35 State 1H	Type : Main well		UWI :	Plan : P1:V2
	Rig Height : Well TVD Reference : 25.00 US ft		Comment :	
	Relative to Mean Sea Level: 3690.00 US ft			
	Closure Distance : 4789.99 US ft		Closure Azimuth : 352.797°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	
	Az :0.00°			
	Magnetic Parameters			
Model : BGGM	Field Strength : 48329.9nT	Dec : 7.31°	Dip : 60.13°	Date : 15/Jul/2014

Target Set	
Name : Sea Snake 35 State 1H	Number of Targets : 1

Comment :

Target Name: PBHL 1H Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 4752.18US ft	Northing : 461934.53 US ft	Latitude : 32°16'3.00"	
	+E / -W : -600.63 US ft	Easting : 783672.08US ft	Longitude : -103°32'57.50"	
	TVD (Well TVD Reference) : 11228.00 US ft			
Orientation Azimuth : 180.00°		Inclination : 0.00°		
Dimensions Length : 9258.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft		

Well path created using minimum curvature

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	VS (US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10564.07	0.00	0.00	10564.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
11026.63	55.51	270.00	10957.60	-0.01	-207.08	12.00	-0.01	12.00	0.00	270.00	Build/Turn
11776.66	90.00	0.00	11228.00	477.45	-600.63	12.00	477.45	4.60	12.00	90.00	LP
16051.39	90.00	0.00	11228.00	4752.18	-600.63	0.00	4752.18	0.00	0.00	0.00	PBHL 1H

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)		Comment
10500.00	0.00	0.00	10500.00	0.00	0.00	0.00	0.00	457182.35	784272.71		
10564.07	0.00	0.00	10564.07	0.00	0.00	0.00	0.00	457182.35	784272.71		KOP
10600.00	4.31	270.00	10599.97	-0.00	-1.35	-0.00	12.00	457182.35	784271.36		
10700.00	16.31	270.00	10698.17	-0.00	-19.22	-0.00	12.00	457182.35	784253.49		
10800.00	28.31	270.00	10790.52	-0.00	-57.11	-0.00	12.00	457182.35	784215.60		
10900.00	40.31	270.00	10872.96	-0.01	-113.38	-0.01	12.00	457182.34	784159.33		
11000.00	52.31	270.00	10941.91	-0.01	-185.56	-0.01	12.00	457182.34	784087.15		
11026.63	55.51	270.00	10957.60	-0.01	-207.08	-0.01	12.00	457182.34	784065.63		Build/Turn
11100.00	55.97	280.64	10998.98	5.61	-267.31	5.61	12.00	457187.96	784005.40		
11200.00	58.04	294.74	11053.63	31.10	-346.85	31.10	12.00	457213.45	783925.86		
11300.00	61.58	308.02	11104.09	76.11	-420.28	76.11	12.00	457258.46	783852.43		
11400.00	66.31	320.31	11148.14	138.66	-484.40	138.66	12.00	457321.01	783788.31		
11500.00	71.94	331.66	11183.86	216.01	-536.39	216.01	12.00	457398.36	783736.32		
11600.00	78.18	342.27	11209.70	304.79	-574.00	304.79	12.00	457487.14	783698.71		
11700.00	84.81	352.40	11224.52	401.12	-595.57	401.12	12.00	457583.47	783677.14		
11776.66	90.00	0.00	11228.00	477.45	-600.63	477.45	12.00	457659.80	783672.08		LP
11800.00	90.00	0.00	11228.00	500.79	-600.63	500.79	0.00	457683.14	783672.08		
11900.00	90.00	0.00	11228.00	600.79	-600.63	600.79	0.00	457783.14	783672.08		
12000.00	90.00	0.00	11228.00	700.79	-600.63	700.79	0.00	457883.14	783672.08		
12100.00	90.00	0.00	11228.00	800.79	-600.63	800.79	0.00	457983.14	783672.08		
12200.00	90.00	0.00	11228.00	900.79	-600.63	900.79	0.00	458083.14	783672.08		
12300.00	90.00	0.00	11228.00	1000.79	-600.63	1000.79	0.00	458183.14	783672.08		
12400.00	90.00	0.00	11228.00	1100.79	-600.63	1100.79	0.00	458283.14	783672.08		
12500.00	90.00	0.00	11228.00	1200.79	-600.63	1200.79	0.00	458383.14	783672.08		
12600.00	90.00	0.00	11228.00	1300.79	-600.63	1300.79	0.00	458483.14	783672.08		
12700.00	90.00	0.00	11228.00	1400.79	-600.63	1400.79	0.00	458583.14	783672.08		
12800.00	90.00	0.00	11228.00	1500.79	-600.63	1500.79	0.00	458683.14	783672.08		
12900.00	90.00	0.00	11228.00	1600.79	-600.63	1600.79	0.00	458783.14	783672.08		
13000.00	90.00	0.00	11228.00	1700.79	-600.63	1700.79	0.00	458883.14	783672.08		
13100.00	90.00	0.00	11228.00	1800.79	-600.63	1800.79	0.00	458983.14	783672.08		
13200.00	90.00	0.00	11228.00	1900.79	-600.63	1900.79	0.00	459083.14	783672.08		
13300.00	90.00	0.00	11228.00	2000.79	-600.63	2000.79	0.00	459183.14	783672.08		
13400.00	90.00	0.00	11228.00	2100.79	-600.63	2100.79	0.00	459283.14	783672.08		
13500.00	90.00	0.00	11228.00	2200.79	-600.63	2200.79	0.00	459383.14	783672.08		
13600.00	90.00	0.00	11228.00	2300.79	-600.63	2300.79	0.00	459483.14	783672.08		
13700.00	90.00	0.00	11228.00	2400.79	-600.63	2400.79	0.00	459583.14	783672.08		
13800.00	90.00	0.00	11228.00	2500.79	-600.63	2500.79	0.00	459683.14	783672.08		
13900.00	90.00	0.00	11228.00	2600.79	-600.63	2600.79	0.00	459783.14	783672.08		
14000.00	90.00	0.00	11228.00	2700.79	-600.63	2700.79	0.00	459883.14	783672.08		
14100.00	90.00	0.00	11228.00	2800.79	-600.63	2800.79	0.00	459983.14	783672.08		
14200.00	90.00	0.00	11228.00	2900.79	-600.63	2900.79	0.00	460083.14	783672.08		
14300.00	90.00	0.00	11228.00	3000.79	-600.63	3000.79	0.00	460183.14	783672.08		
14400.00	90.00	0.00	11228.00	3100.79	-600.63	3100.79	0.00	460283.14	783672.08		
14500.00	90.00	0.00	11228.00	3200.79	-600.63	3200.79	0.00	460383.14	783672.08		
14600.00	90.00	0.00	11228.00	3300.79	-600.63	3300.79	0.00	460483.14	783672.08		
14700.00	90.00	0.00	11228.00	3400.79	-600.63	3400.79	0.00	460583.14	783672.08		
14800.00	90.00	0.00	11228.00	3500.79	-600.63	3500.79	0.00	460683.14	783672.08		
14900.00	90.00	0.00	11228.00	3600.79	-600.63	3600.79	0.00	460783.14	783672.08		
15000.00	90.00	0.00	11228.00	3700.79	-600.63	3700.79	0.00	460883.14	783672.08		
15100.00	90.00	0.00	11228.00	3800.79	-600.63	3800.79	0.00	460983.14	783672.08		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
15200.00	90.00	0.00	11228.00	3900.79	-600.63	3900.79	0.00	461083.14	783672.08	
15300.00	90.00	0.00	11228.00	4000.79	-600.63	4000.79	0.00	461183.14	783672.08	
15400.00	90.00	0.00	11228.00	4100.79	-600.63	4100.79	0.00	461283.14	783672.08	
15500.00	90.00	0.00	11228.00	4200.79	-600.63	4200.79	0.00	461383.14	783672.08	
15600.00	90.00	0.00	11228.00	4300.79	-600.63	4300.79	0.00	461483.14	783672.08	
15700.00	90.00	0.00	11228.00	4400.79	-600.63	4400.79	0.00	461583.14	783672.08	
15800.00	90.00	0.00	11228.00	4500.79	-600.63	4500.79	0.00	461683.14	783672.08	
15900.00	90.00	0.00	11228.00	4600.79	-600.63	4600.79	0.00	461783.14	783672.08	
16000.00	90.00	0.00	11228.00	4700.79	-600.63	4700.79	0.00	461883.14	783672.08	
16051.39	90.00	0.00	11228.00	4752.18	-600.63	4752.18	0.00	461934.53	783672.08	PBHL 1H

5D Anti-Collision Report**Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Sea Snake 35 State 1,2H Pad***Well Name:** *Sea Snake 35 State 1H*

30 April 2014





Weatherford

Sea Snake 35 State 1H

Field Name Lea Co, NM Nad 83 NMEZ	Map Units : US ft			Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level				
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)				
Comment :					
Site Name Sea Snake 35 State 1,2H Pad	Units : US ft		North Reference : Grid		Convergence Angle : 0.42
	Position	Northing : 457182.35 US ft		Latitude : 32° 15' 15.93"	
		Easting : 784272.71 US ft		Longitude : -103° 32' 50.91"	
Elevation above Mean Sea Level:3665.00 US ft					
Comment :					
Slot Name Sea Snake 35 State 1H	Position (Offsets relative to Site Centre)				
	+N / -S : 0.00 US ft	Northing :457182.35 US ft		Latitude : 32°15'15.93"	
	+E / -W : 0.00 US ft	Easting :784272.71 US ft		Longitude : -103°32'50.91"	
Elevation above Mean Sea Level : 3665.00 US ft					
Comment :					
Well Name Sea Snake 35 State 1H	Type : Main well		UWI :		Plan : Working Plan
	Rig Height		Well TVD Reference : 25.00 US ft		Comment :
	Relative to Mean Sea Level: 3690.00 US ft				
	Closure Distance : 4789.99 US ft		Closure Azimuth : 352.797°		
	Vertical Section (Position of Origin Relative to Slot)				
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft		Az :0.00°
	Magnetic Parameters				
	Model : BGGM		Field Strength : 48329.9nT		Dec : 7.31°
			Dip : 60.13°		Date : 15/Jul/2014

Collision / Uncertainty Analysis				
Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Sea Snake 35 State 1H (p)	0.00	16051.39	100.00	2

Secondary Well Names
Sea Snake 35 State 2H (p)

Anti-Collision Report Terminology
S.Minor, S.Major : Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.
PHI : Angle between high-side vector and semi-minor axis
TVD Spread : Total TVD range of the ellipsoid of uncertainty at the current location
ES : Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr
T.Face to Sec : Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

Separation factors calculated using Pedal Curve (Independent Uncertainty). Well path created using minimum curvature.

5D Anti-Collision Report

Anti-Collision Proximity Summary (TVD relative to)

SF	Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
	Sea Snake 35 State 2H (p)	10550.00	10550.00	10550.00	49.97	2.03	1.04	SF (Med)

Secondary Well : Sea Snake 35 State 2H (p) (TVD Relative to Well TVD Reference (Primary)) : All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	89.61	0.00	0.00	49.97	49.24	68.14	
100.00	100.00	100.00	89.61	0.12	0.12	49.97	49.01	51.83	
200.00	200.00	200.00	89.61	0.34	0.34	49.97	48.56	35.40	
300.00	300.00	300.00	89.61	0.57	0.57	49.97	48.11	26.86	
400.00	400.00	400.00	89.61	0.79	0.79	49.97	47.66	21.63	
500.00	500.00	500.00	89.61	1.02	1.02	49.97	47.21	18.11	
600.00	600.00	600.00	89.61	1.24	1.24	49.97	46.76	15.57	
700.00	700.00	700.00	89.61	1.46	1.46	49.97	46.31	13.66	
800.00	800.00	800.00	89.61	1.69	1.69	49.97	45.86	12.16	
900.00	900.00	900.00	89.61	1.91	1.91	49.97	45.41	10.96	
1000.00	1000.00	1000.00	89.61	2.14	2.14	49.97	44.96	9.98	
1100.00	1100.00	1100.00	89.61	2.36	2.36	49.97	44.51	9.16	
1200.00	1200.00	1200.00	89.61	2.59	2.59	49.97	44.07	8.46	
1300.00	1300.00	1300.00	89.61	2.81	2.81	49.97	43.62	7.86	
1400.00	1400.00	1400.00	89.61	3.04	3.04	49.97	43.17	7.34	
1500.00	1500.00	1500.00	89.61	3.26	3.26	49.97	42.72	6.89	
1600.00	1600.00	1600.00	89.61	3.49	3.49	49.97	42.27	6.49	
1700.00	1700.00	1700.00	89.61	3.71	3.71	49.97	41.82	6.13	
1800.00	1800.00	1800.00	89.61	3.94	3.94	49.97	41.37	5.81	
1900.00	1900.00	1900.00	89.61	4.16	4.16	49.97	40.92	5.52	
2000.00	2000.00	2000.00	89.61	4.39	4.39	49.97	40.47	5.26	
2100.00	2100.00	2100.00	89.61	4.61	4.61	49.97	40.02	5.02	
2200.00	2200.00	2200.00	89.61	4.84	4.84	49.97	39.57	4.80	
2300.00	2300.00	2300.00	89.61	5.06	5.06	49.97	39.12	4.61	
2400.00	2400.00	2400.00	89.61	5.29	5.29	49.97	38.67	4.42	
2500.00	2500.00	2500.00	89.61	5.51	5.51	49.97	38.22	4.25	
2600.00	2600.00	2600.00	89.61	5.74	5.74	49.97	37.77	4.10	
2700.00	2700.00	2700.00	89.61	5.96	5.96	49.97	37.32	3.95	
2800.00	2800.00	2800.00	89.61	6.18	6.18	49.97	36.87	3.82	
2900.00	2900.00	2900.00	89.61	6.41	6.41	49.97	36.42	3.69	
3000.00	3000.00	3000.00	89.61	6.63	6.63	49.97	35.97	3.57	
3100.00	3100.00	3100.00	89.61	6.86	6.86	49.97	35.52	3.46	
3200.00	3200.00	3200.00	89.61	7.08	7.08	49.97	35.07	3.35	
3300.00	3300.00	3300.00	89.61	7.31	7.31	49.97	34.63	3.26	
3400.00	3400.00	3400.00	89.61	7.53	7.53	49.97	34.18	3.16	
3500.00	3500.00	3500.00	89.61	7.76	7.76	49.97	33.73	3.08	
3600.00	3600.00	3600.00	89.61	7.98	7.98	49.97	33.28	2.99	
3700.00	3700.00	3700.00	89.61	8.21	8.21	49.97	32.83	2.91	
3800.00	3800.00	3800.00	89.61	8.43	8.43	49.97	32.38	2.84	
3900.00	3900.00	3900.00	89.61	8.66	8.66	49.97	31.93	2.77	
4000.00	4000.00	4000.00	89.61	8.88	8.88	49.97	31.48	2.70	
4100.00	4100.00	4100.00	89.61	9.11	9.11	49.97	31.03	2.64	
4200.00	4200.00	4200.00	89.61	9.33	9.33	49.97	30.58	2.58	
4300.00	4300.00	4300.00	89.61	9.56	9.56	49.97	30.13	2.52	
4400.00	4400.00	4400.00	89.61	9.78	9.78	49.97	29.68	2.46	
4500.00	4500.00	4500.00	89.61	10.01	10.01	49.97	29.23	2.41	
4600.00	4600.00	4600.00	89.61	10.23	10.23	49.97	28.78	2.36	
4700.00	4700.00	4700.00	89.61	10.46	10.46	49.97	28.33	2.31	
4800.00	4800.00	4800.00	89.61	10.68	10.68	49.97	27.88	2.26	
4900.00	4900.00	4900.00	89.61	10.90	10.90	49.97	27.43	2.22	
5000.00	5000.00	5000.00	89.61	11.13	11.13	49.97	26.98	2.17	
5100.00	5100.00	5100.00	89.61	11.35	11.35	49.97	26.53	2.13	

5D Anti-Collision Report

Secondary Well : Sea Snake 35 State 2H (p) (TVD Relative to Well TVD Reference (Primary)) : All Azimuth Relative to GRID NORTH									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
5200.00	5200.00	5200.00	89.61	11.58	11.58	49.97	26.08	2.09	
5300.00	5300.00	5300.00	89.61	11.80	11.80	49.97	25.63	2.05	
5400.00	5400.00	5400.00	89.61	12.03	12.03	49.97	25.18	2.02	
5500.00	5500.00	5500.00	89.61	12.25	12.25	49.97	24.74	1.98	SF (Lo)
5600.00	5600.00	5600.00	89.61	12.48	12.48	49.97	24.29	1.95	SF (Lo)
5700.00	5700.00	5700.00	89.61	12.70	12.70	49.97	23.84	1.91	SF (Lo)
5800.00	5800.00	5800.00	89.61	12.93	12.93	49.97	23.39	1.88	SF (Lo)
5900.00	5900.00	5900.00	89.61	13.15	13.15	49.97	22.94	1.85	SF (Lo)
6000.00	6000.00	6000.00	89.61	13.38	13.38	49.97	22.49	1.82	SF (Lo)
6100.00	6100.00	6100.00	89.61	13.60	13.60	49.97	22.04	1.79	SF (Lo)
6200.00	6200.00	6200.00	89.61	13.83	13.83	49.97	21.59	1.76	SF (Lo)
6300.00	6300.00	6300.00	89.61	14.05	14.05	49.97	21.14	1.73	SF (Lo)
6400.00	6400.00	6400.00	89.61	14.28	14.28	49.97	20.69	1.71	SF (Lo)
6500.00	6500.00	6500.00	89.61	14.50	14.50	49.97	20.24	1.68	SF (Lo)
6600.00	6600.00	6600.00	89.61	14.73	14.73	49.97	19.79	1.66	SF (Lo)
6700.00	6700.00	6700.00	89.61	14.95	14.95	49.97	19.34	1.63	SF (Lo)
6800.00	6800.00	6800.00	89.61	15.18	15.18	49.97	18.89	1.61	SF (Lo)
6900.00	6900.00	6900.00	89.61	15.40	15.40	49.97	18.44	1.58	SF (Lo)
7000.00	7000.00	7000.00	89.61	15.63	15.63	49.97	17.99	1.56	SF (Lo)
7100.00	7100.00	7100.00	89.61	15.85	15.85	49.97	17.54	1.54	SF (Lo)
7200.00	7200.00	7200.00	89.61	16.08	16.08	49.97	17.09	1.52	SF (Lo)
7300.00	7300.00	7300.00	89.61	16.30	16.30	49.97	16.64	1.50	SF (Med)
7400.00	7400.00	7400.00	89.61	16.52	16.52	49.97	16.19	1.48	SF (Med)
7500.00	7500.00	7500.00	89.61	16.75	16.75	49.97	15.74	1.46	SF (Med)
7600.00	7600.00	7600.00	89.61	16.97	16.97	49.97	15.29	1.44	SF (Med)
7700.00	7700.00	7700.00	89.61	17.20	17.20	49.97	14.84	1.42	SF (Med)
7800.00	7800.00	7800.00	89.61	17.42	17.42	49.97	14.39	1.40	SF (Med)
7900.00	7900.00	7900.00	89.61	17.65	17.65	49.97	13.95	1.39	SF (Med)
8000.00	8000.00	8000.00	89.61	17.87	17.87	49.97	13.50	1.37	SF (Med)
8100.00	8100.00	8100.00	89.61	18.10	18.10	49.97	13.05	1.35	SF (Med)
8200.00	8200.00	8200.00	89.61	18.32	18.32	49.97	12.60	1.34	SF (Med)
8300.00	8300.00	8300.00	89.61	18.55	18.55	49.97	12.15	1.32	SF (Med)
8400.00	8400.00	8400.00	89.61	18.77	18.77	49.97	11.70	1.31	SF (Med)
8500.00	8500.00	8500.00	89.61	19.00	19.00	49.97	11.25	1.29	SF (Med)
8600.00	8600.00	8600.00	89.61	19.22	19.22	49.97	10.80	1.28	SF (Med)
8700.00	8700.00	8700.00	89.61	19.45	19.45	49.97	10.35	1.26	SF (Med)
8800.00	8800.00	8800.00	89.61	19.67	19.67	49.97	9.90	1.25	SF (Med)
8900.00	8900.00	8900.00	89.61	19.90	19.90	49.97	9.45	1.23	SF (Med)
9000.00	9000.00	9000.00	89.61	20.12	20.12	49.97	9.00	1.22	SF (Med)
9100.00	9100.00	9100.00	89.61	20.35	20.35	49.97	8.55	1.21	SF (Med)
9200.00	9200.00	9200.00	89.61	20.57	20.57	49.97	8.10	1.19	SF (Med)
9300.00	9300.00	9300.00	89.61	20.80	20.80	49.97	7.65	1.18	SF (Med)
9400.00	9400.00	9400.00	89.61	21.02	21.02	49.97	7.20	1.17	SF (Med)
9500.00	9500.00	9500.00	89.61	21.25	21.25	49.97	6.75	1.16	SF (Med)
9600.00	9600.00	9600.00	89.61	21.47	21.47	49.97	6.30	1.14	SF (Med)
9700.00	9700.00	9700.00	89.61	21.70	21.70	49.97	5.85	1.13	SF (Med)
9800.00	9800.00	9800.00	89.61	21.92	21.92	49.97	5.40	1.12	SF (Med)
9900.00	9900.00	9900.00	89.61	22.14	22.14	49.97	4.95	1.11	SF (Med)
10000.00	10000.00	10000.00	89.61	22.37	22.37	49.97	4.50	1.10	SF (Med)
10100.00	10100.00	10100.00	89.61	22.59	22.59	49.97	4.05	1.09	SF (Med)
10200.00	10200.00	10200.00	89.61	22.82	22.82	49.97	3.60	1.08	SF (Med)
10300.00	10300.00	10300.00	89.61	23.04	23.04	49.97	3.15	1.07	SF (Med)
10400.00	10400.00	10400.00	89.61	23.27	23.27	49.97	2.71	1.06	SF (Med)
10500.00	10500.00	10500.00	89.61	23.49	23.49	49.97	2.26	1.05	SF (Med)
10600.00	10596.37	10596.40	179.63	23.71	23.65	52.56	4.63	1.10	SF (Med)
10700.00	10677.76	10678.87	179.74	23.88	23.51	85.47	37.76	1.79	SF (Lo)
10800.00	10736.44	10740.44	179.80	24.01	23.08	149.53	102.55	3.18	
10900.00	10771.25	10778.41	179.80	24.09	22.84	234.05	187.40	5.02	

SD Anti-Collision Report

Secondary Well : Sea Snake 35 State 2H (p) (TVD Relative to Well TVD Reference (Primary) : All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
11000.00	10787.47	10796.59	179.65	24.14	22.68	329.61	283.16	7.10	
11100.00	10793.09	10802.97	119.74	24.15	22.61	428.68	382.26	9.23	
11200.00	10797.14	10807.61	93.25	24.16	22.56	525.61	479.22	11.33	
11300.00	10800.24	10811.16	80.46	24.17	22.52	618.13	571.71	13.32	
11400.00	10802.55	10813.83	72.11	24.18	22.49	704.71	658.19	15.15	
11500.00	10804.20	10815.74	66.35	24.18	22.47	784.15	737.48	16.80	
11600.00	10805.30	10817.01	62.52	24.18	22.45	855.42	808.53	18.24	
11700.00	10805.89	10817.69	60.27	24.18	22.44	917.66	870.45	19.44	
11800.00	10806.03	10817.85	59.51	24.19	22.44	970.60	923.11	20.44	
11900.00	10806.03	10817.85	59.51	24.19	22.44	1025.75	977.88	21.43	
12000.00	10806.03	10817.85	59.51	24.19	22.44	1087.31	1039.18	22.59	
12100.00	10806.03	10817.86	59.51	24.19	22.44	1154.27	1105.85	23.84	
12200.00	10806.03	10817.86	59.51	24.19	22.44	1225.73	1177.04	25.17	
12300.00	11228.00	12297.88	90.00	30.34	20.08	1249.27	1187.13	20.10	
12400.00	11228.00	12397.88	90.00	31.31	20.42	1249.27	1185.17	19.49	
12500.00	11228.00	12497.88	90.00	32.40	20.79	1249.27	1182.88	18.82	
12600.00	11228.00	12597.88	90.00	33.62	21.16	1249.27	1180.41	18.14	
12700.00	11228.00	12697.88	90.00	34.83	21.55	1249.27	1177.94	17.51	
12800.00	11228.00	12797.88	90.00	36.06	21.95	1249.27	1175.45	16.92	
12900.00	11228.00	12897.88	90.00	37.29	22.41	1249.27	1172.93	16.37	
13000.00	11228.00	12997.88	90.00	38.69	22.89	1249.27	1170.13	15.78	
13100.00	11228.00	13097.88	90.00	40.13	23.38	1249.27	1167.22	15.23	
13200.00	11228.00	13197.88	90.00	41.58	23.88	1249.27	1164.29	14.70	
13300.00	11228.00	13297.88	90.00	43.04	24.34	1249.27	1161.34	14.21	
13400.00	11228.00	13397.88	90.00	44.52	24.85	1249.27	1158.38	13.74	
13500.00	11228.00	13497.88	90.00	45.99	25.40	1249.27	1155.44	13.31	
13600.00	11228.00	13597.88	90.00	47.47	25.98	1249.27	1152.56	12.92	
13700.00	11228.00	13697.88	90.00	48.92	26.56	1249.27	1149.62	12.54	
13800.00	11228.00	13797.88	90.00	50.47	27.00	1249.27	1146.57	12.16	
13900.00	11228.00	13897.88	90.00	52.10	27.50	1249.27	1143.27	11.79	
14000.00	11228.00	13997.88	90.00	53.71	28.12	1249.27	1140.01	11.43	
14100.00	11228.00	14097.88	90.00	55.31	28.65	1249.27	1136.78	11.11	
14200.00	11228.00	14197.88	90.00	56.91	29.21	1249.27	1133.52	10.79	
14300.00	11228.00	14297.88	90.00	58.55	29.85	1249.27	1130.23	10.49	
14400.00	11228.00	14397.88	90.00	60.22	30.46	1249.27	1126.88	10.21	
14500.00	11228.00	14497.88	90.00	61.90	31.06	1249.27	1123.51	9.93	
14600.00	11228.00	14597.88	90.00	63.58	31.65	1249.27	1120.13	9.67	
14700.00	11228.00	14697.88	90.00	65.27	32.24	1249.27	1116.74	9.43	
14800.00	11228.00	14797.88	90.00	66.97	32.84	1249.27	1113.34	9.19	
14900.00	11228.00	14897.88	90.00	68.67	33.44	1249.27	1109.92	8.97	
15000.00	11228.00	14997.88	90.00	70.38	34.05	1249.27	1106.50	8.75	
15100.00	11228.00	15097.88	90.00	72.10	34.65	1249.27	1103.06	8.54	
15200.00	11228.00	15197.88	90.00	73.81	35.27	1249.27	1099.62	8.35	
15300.00	11228.00	15297.88	90.00	75.54	35.89	1249.27	1096.16	8.16	
15400.00	11228.00	15397.88	90.00	77.27	36.54	1249.27	1092.70	7.98	
15500.00	11228.00	15497.88	90.00	79.00	37.20	1249.27	1089.23	7.81	
15600.00	11228.00	15597.88	90.00	80.73	37.85	1249.27	1085.76	7.64	
15700.00	11228.00	15697.88	90.00	82.47	38.51	1249.27	1082.27	7.48	
15800.00	11228.00	15797.88	90.00	84.22	39.17	1249.27	1078.78	7.33	
15900.00	11228.00	15897.88	90.00	85.96	39.83	1249.27	1075.29	7.18	
16000.00	11228.00	15997.88	90.00	87.71	40.50	1249.27	1071.78	7.04	
16051.39	11228.00	16049.27	90.00	88.61	40.84	1249.27	1069.99	6.97	

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: April 29, 2014
Job Number: _____
Customer: Devon Energy
Well Name: Sea Snake 35 State 1H
API Number: _____
Rig Name: _____
Location: Lea County, NM
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 457182.350 USFT	Latitude 32.2544253 DEG
East/West 784272.710 USFT	Longitude -103.5474740 DEG
Grid Convergence: .42°	
Total Correction: +6.89°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.25443° N	32° 15 min 15.931 sec
Longitude =	103.54747° W	103° 32 min 50.907 sec

Magnetic Declination =	7.31°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6592
Local Field Strength =	48330 nT	Magnetic Vector X = 23877 nT
Magnetic Dip =	60.13°	Magnetic Vector Y = 3065 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 41908 nT
Spud Date =	Jul 15, 2014	Magnetic Vector H = 24073 nT

Signed: _____

Date: _____