

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised August 1, 2011

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-025-42283
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SEA SNAKE 35 STATE
8. Well Number 3H
9. OGRID Number 6137
10. Pool name or Wildcat Triple X; Bone Spring (59900)

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator Devon Energy Production Company, L.P.	
3. Address of Operator 333 West Sheridan Ave. Oklahoma City, Oklahoma 73102-5010 (405) 552-7848	
4. Well Location Unit Letter <u>O</u> : <u>200</u> feet from the <u>S</u> line and <u>2132</u> feet from the <u>E</u> line Section <u>35</u> Township <u>23S</u> Range <u>33E</u> NMPM Lea County New Mexico	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3647'	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., L.P. respectfully requests approval to change the approved APD as follows:

- Change projected TD of well from 15,553' MD to 15,645' MD.
- Change production casing to 7" x 5.5" mixed string.
- Change to BOP 3M system for entire duration of well.

See attached revised Drill Plan and directional survey.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Regulatory Specialist DATE 3/25/2015

Type or print name David H. Cook E-mail address: david.cook@dvn.com PHONE: (405) 552-7848

**For State Use Only**

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 03/25/15  
Conditions of Approval (if any):

MAR 26 2015

**Devon Energy, Sea Snake 35 State 3H**

## 1. Geologic Formations

TVD of target	11,102	Pilot hole depth	N/A
MD at TD:	15,645	Deepest expected fresh water:	N/A

## Basin

[illegible]

\*H<sub>2</sub>S, water flows, loss of circulation, abnormal pressures, etc.

## Devon Energy, Sea Snake 35 State 3H

### 2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	1400	13.375"	48	H40	STC	1.18	2.64	8.05
12.25"	0	4300	9.625"	40	J55	BTC	1.15	1.77	4.15
12.25"	4300	5200	9.625"	40	HCK55	BTC	1.56	1.46	4.45
Option #1									
8.75"	0	15645	5.5"	17	P110	BTC	1.93	2.40	2.15
Option # 2									
8.75"	0	10550	7"	29	P110	BTC	1.84	2.25	3.16
8.75"	10550	15645	5.5"	17	P110	BTC	1.93	2.40	6.52
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 III.B.1.h

Must have table for contingency casing

	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 <sup>rd</sup> 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 <sup>nd</sup> 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?	

## Devon Energy, Sea Snake 35 State 3H

### 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H <sub>2</sub> O gal/sk	Yld ft <sup>3</sup> / sack	500# Comp. Strength (hours)	Slurry Description
Surf.	680	12.9	9.81	1.85	15	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	560	14.8	6.34	1.34	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake + 1% BWOC Calcium Chloride
Surf. Two Stage	460	12.9	9.81	1.85	15	1 <sup>st</sup> Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	560	14.8	6.34	1.34	6	1 <sup>st</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake + 1% BWOC Calcium Chloride
	DV Tool = 300ft					
	320	14.8	6.34	1.34	6	2 <sup>nd</sup> Stage Primary: Class C Cement + 0.125 lbs/sack Poly-E-Flake + 1% BWOC Calcium Chloride
Inter.	1120	12.9	9.81	1.85	15	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	1.33	6.32	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Inter. Two Stage	950	12.9	9.81	1.85	15	1 <sup>st</sup> Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	220	14.8	1.33	6.32	7	1 <sup>st</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 1500ft					
	210	12.9	9.81	1.85	17	2 <sup>nd</sup> Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	160	14.8	1.33	6.32	7	2 <sup>nd</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

### Devon Energy, Sea Snake 35 State 3H

Casing	# Sks	Wt. lb/ gal	H <sub>2</sub> O gal/sk	Yld ft <sup>3</sup> / sack	500# Comp. Strength (hours)	Slurry Description
5.5" Prod	510	11.9	12.89	2.26	n/a	1 <sup>st</sup> Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	330	12.5	10.86	1.96	30	2 <sup>nd</sup> Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1340	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
7 x 5.5" Combo Prod	530	10.4	16.8	3.17	25	Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	1060	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Surface Two Stage	1 <sup>st</sup> Stage =300' / 2 <sup>nd</sup> Stage =0'	100%
Intermediate	0'	75%
Intermediate Two Stage	1 <sup>st</sup> Stage =1500' / 2 <sup>nd</sup> Stage =0'	75%
5.5" Production	4700'	25%
7 x 5.5" Combo Prod.	4700'	25%

## Devon Energy, Sea Snake 35 State 3H

### 4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	11"	3M	Annular	x	50% testing pressure
			Blind Ram	x	3M
			Pipe Ram	x	
			Double Ram		
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

\*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
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## Devon Energy, Sea Snake 35 State 3H

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	<p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <p>Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). 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 3000 (3M) psi.</p> <ul style="list-style-type: none"> <li>• Wellhead will be installed by FMC's representatives.</li> <li>• If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.</li> <li>• FMC representative will install the test plug for the initial BOP test.</li> <li>• FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.</li> <li>• If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.</li> <li>• Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.</li> <li>• Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.</li> </ul> <p>After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.</p> <p>After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.</p> <p>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.</p>

## Devon Energy, Sea Snake 35 State 3H

	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.
	See attached schematic.

### 5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,400'	FW Gel	8.6-8.8	28-34	N/C
1,400'	5,200'	Saturated Brine	10.0-10.2	28-34	N/C
5,200'	15,645'	Cut Brine	8.5-9.3	28-34	N/C

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
X Resistivity	Int. shoe to KOP
X Density	Int. shoe to KOP
X CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	



## Devon Energy, Sea Snake 35 State 3H

### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4981 psi
Abnormal Temperature	No

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

Hydrogen Sulfide (H<sub>2</sub>S) monitors will be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 <sub>2</sub> S is present
Y	H <sub>2</sub> S Plan attached

### 8. Other facets of operation

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

Attachments

\_\_\_ Directional Plan

\_\_\_ Other, describe

# devon

Sea Snake 35 State 3H  
Lea Co, NM



## Plan Data for Sea Snake 35 State 3H

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	457194.41	786121.75	0.00	0.00
10624.54	0.00	0.00	10624.54	0.00	0.00	457194.41	786121.75	0.00	0.00
11374.54	90.00	359.58	11102.00	477.45	-3.50	457671.86	786118.25	477.47	12.00
15645.22	90.00	359.58	11102.00	4748.02	-34.82	461942.43	786086.93	4748.15	0.00

## Plan Data for Sea Snake 35 State 3H

Slot: Sea Snake 35 State 3H  
Position:  
Offset is from Site centre  
+N/-S: 0.00USft Northing: 457194.41USft Latitude: 32°15'15.9"  
+E/-W: 0.00USft Easting: 786121.75USft Longitude: -103°32'29.4"  
Elevation Above VRD: 3647.00USft

## Plan Data for Sea Snake 35 State 3H

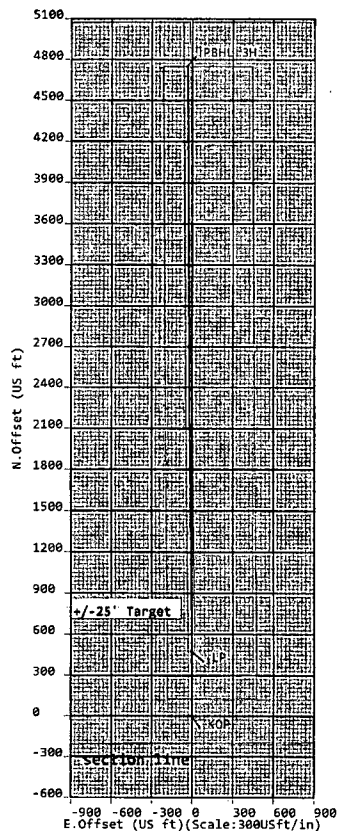
Target Set Information:  
Name: Sea Snake 35 State 3H  
Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)		
PBHL 3H	11102.00	4748.02	-34.82	461942.43	786086.93	Cuboid	

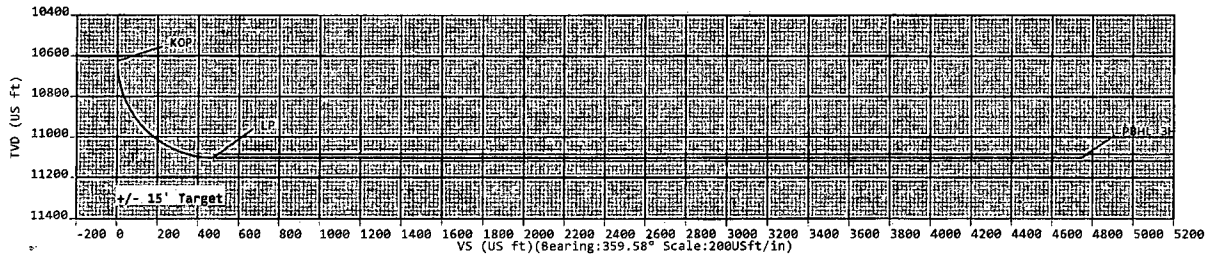
## Plan Data for Sea Snake 35 State 3H

Well: Sea Snake 35 State 3H  
Type: Main-Well  
File Number:  
Plan Folder: P1 Plan: P1:V1  
Vertical Section: Position offset of origin from Slot centre:  
+N/-S: 0.00USft Azimuth: 359.58°  
+E/-W: 0.00USft  
Magnetic Parameters:  
Model: Field Strength: Declination: Dip: Date:  
BGGM 48229(nT) 7.28° 60.12° 2015-04-10

Sea Snake 35 State 3H



K8-3672  
GL-3647



Sign Off: Russell Joyner

**5D Plan Report****Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Sea Snake 35 State 3H***Well Name:** *Sea Snake 35 State 3H***Plan:** *P1:V1*

23 March 2015



## Sea Snake 35 State 3H

<b>Field Name</b>	<b>Map Units :</b> US ft			<b>Company Name :</b> Devon Energy		
Lea Co., NM NAD83: NMEZ	<b>Vertical Reference Datum (VRD) :</b> Mean Sea Level					
	<b>Projected Coordinate System :</b> NAD83 / New Mexico East (ftUS)					
	<b>Comment :</b>					
<b>Site Name</b>	<b>Units :</b> US ft	<b>North Reference :</b> Grid	<b>Convergence Angle :</b> 0.42			
Sea Snake 35 State 3H	<b>Position</b>	<b>Northing :</b> 457194.41 US ft	<b>Latitude :</b> 32°15'15.92"			
		<b>Easting :</b> 786121.75 US ft	<b>Longitude :</b> -103°32'29.37"			
	<b>Elevation above Mean Sea Level:</b> 3647.00 US ft					
<b>Comment :</b>						
<b>Slot Name</b>	<b>Position (Offsets relative to Site Centre)</b>					
Sea Snake 35 State 3H	<b>+N / -S :</b> 0.00 US ft	<b>Northing :</b> 457194.41 US ft	<b>Latitude :</b> 32°15'15.92"			
	<b>+E / -W :</b> 0.00 US ft	<b>Easting :</b> 786121.75 US ft	<b>Longitude :</b> -103°32'29.37"			
	<b>Slot TVD Reference :</b> Ground Elevation					
<b>Elevation above Mean Sea Level :</b> 3647.00 US ft						
<b>Comment :</b>						
<b>Well Name</b>	<b>Type :</b> Main well	<b>UWI :</b>	<b>Plan :</b> P1:V1			
Sea Snake 35 State 3H	<b>Rig Height :</b> Kelly Bushing : 25.00 US ft	<b>Comment :</b>				
	<b>Relative to Mean Sea Level:</b> 3672.00 US ft					
	<b>Closure Distance :</b> 4748.15 US ft	<b>Closure Azimuth :</b> 359.58°				
<b>Vertical Section (Position of Origin Relative to Slot )</b>						
	<b>+N / -S :</b> 0.00 US ft	<b>+E / -W :</b> 0.00 US ft	<b>Az :</b> 359.58°			
<b>Magnetic Parameters</b>						
	<b>Model :</b> BGGM	<b>Field Strength :</b> 48229.6nT	<b>Dec :</b> 7.28°	<b>Dip :</b> 60.12°	<b>Date :</b> 10/Apr/2015	

### Target Set

**Name :** Sea Snake 35 State 3H  
**Number of Targets :** 1

### Comment :

<b>Target Name:</b>	<b>Position (Relative to Slot centre)</b>					
PBHL 3H	<b>+N / -S :</b> 4748.02 US ft	<b>Northing :</b> 461942.43 US ft	<b>Latitude :</b> 32°16'2.90"			
	<b>+E / -W :</b> 34.82 US ft	<b>Easting :</b> 786086.93 US ft	<b>Longitude :</b> -103°32'29.37"			
<b>Shape:</b>	<b>TVD (Kelly Bushing) :</b> 11102.00 US ft					
Cuboid	<b>Orientation</b>	<b>Azimuth :</b> 359.58°	<b>Inclination :</b> 0.00°			
	<b>Dimensions</b>	<b>Length :</b> 8540.00 US ft	<b>Breadth :</b> 50.00 US ft	<b>Height :</b> 30.00 US ft		

Well path created using minimum curvature

## 5D Plan Report

Salient Points (Relative to Slot Centre, TVD relative to Kelly Bushing)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B. Rate (°/100 US ft)	T. Rate (°/100 US ft)	T. Face (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10624.54	0.00	0.00	10624.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
11374.54	90.00	359.58	11102.00	477.45	-3.50	477.47	12.00	12.00	0.00	359.58	LP
15645.22	90.00	359.58	11102.00	4748.02	-34.82	4748.15	0.00	0.00	0.00	0.00	PBHL 3H

Interpolated Points (Relative to Slot Centre, TVD relative to Kelly Bushing)											Comment
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)		
10600.00	0.00	0.00	10600.00	0.00	0.00	0.00	0.00	457194.41	786121.75		
10624.54	0.00	0.00	10624.54	0.00	0.00	0.00	0.00	457194.41	786121.75		KOP
10700.00	9.06	359.58	10699.69	5.95	-0.04	5.95	12.00	457200.36	786121.71		
10800.00	21.06	359.58	10796.08	31.88	-0.23	31.88	12.00	457226.29	786121.52		
10900.00	33.06	359.58	10884.97	77.28	-0.57	77.28	12.00	457271.69	786121.18		
11000.00	45.06	359.58	10962.48	140.17	-1.03	140.17	12.00	457334.58	786120.72		
11100.00	57.06	359.58	11025.23	217.80	-1.60	217.80	12.00	457412.21	786120.15		
11200.00	69.06	359.58	11070.46	306.78	-2.25	306.79	12.00	457501.19	786119.50		
11300.00	81.06	359.58	11096.20	403.22	-2.96	403.23	12.00	457597.63	786118.79		
11374.54	90.00	359.58	11102.00	477.45	-3.50	477.47	12.00	457671.86	786118.25		LP
11400.00	90.00	359.58	11102.00	502.91	-3.69	502.92	0.00	457697.32	786118.06		
11500.00	90.00	359.58	11102.00	602.91	-4.42	602.92	0.00	457797.32	786117.33		
11600.00	90.00	359.58	11102.00	702.91	-5.15	702.92	0.00	457897.32	786116.60		
11700.00	90.00	359.58	11102.00	802.90	-5.89	802.92	0.00	457997.31	786115.86		
11800.00	90.00	359.58	11102.00	902.90	-6.62	902.92	0.00	458097.31	786115.13		
11900.00	90.00	359.58	11102.00	1002.90	-7.35	1002.92	0.00	458197.31	786114.40		
12000.00	90.00	359.58	11102.00	1102.90	-8.09	1102.92	0.00	458297.31	786113.66		
12100.00	90.00	359.58	11102.00	1202.89	-8.82	1202.92	0.00	458397.30	786112.93		
12200.00	90.00	359.58	11102.00	1302.89	-9.55	1302.92	0.00	458497.30	786112.20		
12300.00	90.00	359.58	11102.00	1402.89	-10.29	1402.92	0.00	458597.30	786111.46		
12400.00	90.00	359.58	11102.00	1502.88	-11.02	1502.92	0.00	458697.29	786110.73		
12500.00	90.00	359.58	11102.00	1602.88	-11.75	1602.92	0.00	458797.29	786110.00		
12600.00	90.00	359.58	11102.00	1702.88	-12.49	1702.92	0.00	458897.29	786109.26		
12700.00	90.00	359.58	11102.00	1802.88	-13.22	1802.92	0.00	458997.29	786108.53		
12800.00	90.00	359.58	11102.00	1902.87	-13.95	1902.92	0.00	459097.28	786107.80		
12900.00	90.00	359.58	11102.00	2002.87	-14.69	2002.92	0.00	459197.28	786107.06		
13000.00	90.00	359.58	11102.00	2102.87	-15.42	2102.92	0.00	459297.28	786106.33		
13100.00	90.00	359.58	11102.00	2202.87	-16.15	2202.92	0.00	459397.28	786105.60		
13200.00	90.00	359.58	11102.00	2302.86	-16.89	2302.92	0.00	459497.27	786104.86		
13300.00	90.00	359.58	11102.00	2402.86	-17.62	2402.92	0.00	459597.27	786104.13		
13400.00	90.00	359.58	11102.00	2502.86	-18.35	2502.92	0.00	459697.27	786103.40		
13500.00	90.00	359.58	11102.00	2602.85	-19.09	2602.92	0.00	459797.26	786102.66		
13600.00	90.00	359.58	11102.00	2702.85	-19.82	2702.92	0.00	459897.26	786101.93		
13700.00	90.00	359.58	11102.00	2802.85	-20.55	2802.92	0.00	459997.26	786101.20		
13800.00	90.00	359.58	11102.00	2902.85	-21.29	2902.92	0.00	460097.26	786100.46		
13900.00	90.00	359.58	11102.00	3002.84	-22.02	3002.92	0.00	460197.25	786099.73		
14000.00	90.00	359.58	11102.00	3102.84	-22.75	3102.92	0.00	460297.25	786099.00		
14100.00	90.00	359.58	11102.00	3202.84	-23.49	3202.92	0.00	460397.25	786098.26		
14200.00	90.00	359.58	11102.00	3302.84	-24.22	3302.92	0.00	460497.25	786097.53		
14300.00	90.00	359.58	11102.00	3402.83	-24.95	3402.92	0.00	460597.24	786096.80		
14400.00	90.00	359.58	11102.00	3502.83	-25.69	3502.92	0.00	460697.24	786096.06		
14500.00	90.00	359.58	11102.00	3602.83	-26.42	3602.92	0.00	460797.24	786095.33		
14600.00	90.00	359.58	11102.00	3702.83	-27.15	3702.92	0.00	460897.24	786094.60		
14700.00	90.00	359.58	11102.00	3802.82	-27.89	3802.92	0.00	460997.23	786093.86		
14800.00	90.00	359.58	11102.00	3902.82	-28.62	3902.92	0.00	461097.23	786093.13		
14900.00	90.00	359.58	11102.00	4002.82	-29.35	4002.92	0.00	461197.23	786092.40		
15000.00	90.00	359.58	11102.00	4102.81	-30.09	4102.92	0.00	461297.22	786091.66		
15100.00	90.00	359.58	11102.00	4202.81	-30.82	4202.92	0.00	461397.22	786090.93		
15200.00	90.00	359.58	11102.00	4302.81	-31.56	4302.92	0.00	461497.22	786090.19		
15300.00	90.00	359.58	11102.00	4402.81	-32.29	4402.92	0.00	461597.22	786089.46		
15400.00	90.00	359.58	11102.00	4502.80	-33.02	4502.92	0.00	461697.21	786088.73		

## 5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
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
15500.00	90.00	359.58	11102.00	4602.80	-33.76	4602.92	0.00	461797.21	786087.99	
15600.00	90.00	359.58	11102.00	4702.80	-34.49	4702.92	0.00	461897.21	786087.26	
15645.22	90.00	359.58	11102.00	4748.02	-34.82	4748.15	0.00	461942.43	786086.93	PBHL 3H



**Weatherford**

## Weatherford Drilling Services

GeoDec4 v2.1.0.0

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Report Date: March 23, 2015  
Job Number: \_\_\_\_\_  
Customer: Devon Energy  
Well Name: Sea Snake 35 State 3H  
API Number: \_\_\_\_\_  
Rig Name: \_\_\_\_\_  
Location: Lea Co, NM Nad83 NME  
Block: \_\_\_\_\_  
Engineer: RWJ

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NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 457194.41 US Survey Foot	Latitude: 32.254421 Degree
East: 786121.75 US Survey Foot	Longitude: -103.541493 Degree
Convergence: 0.42°	
Declination: 7.28°	
Total Correction: 6.86°	
Datum Transformation: none	

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### Geodetic Location WGS84

MSL Elevation = 0 m  
Latitude = 32° 15' 15.92" N  
Longitude = 103° 32' 29.37" W

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Magnetic Declination = 7.28 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6543
Local Field Strength = 48230 nT	Magnetic Vector X = 23836 nT
Magnetic Dip = 60.12 deg	Magnetic Vector Y = 3045 nT
Magnetic Model = bggm2014.dat	Magnetic Vector Z = 41817 nT
Run Date = April 10, 2015	Magnetic Vector H = 24030 nT

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Signed: \_\_\_\_\_ Date: \_\_\_\_\_

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