UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

OMB	No. 100	4-01	37
Expires:	January	31,	2018

6. If Indian, Allotee or Tribe Name

5. Lease Serial No. NMNM121489

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work:	NTER			7. If Unit or CA Agr	eement, Name	and No.
1b. Type of Well: Oil Well Gas Well Othe	er			8. Lease Name and	Wall No	
1c. Type of Completion: Hydraulic Fracturing Sing	le Zone	Multiple Zone		SEA SNAKE 35-26		СОМ
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP [6137]	7]				-025-473	
	o. Phone No 300) 583-3	o. (include area cod 866	(e)	10. Field and Pool, of TRIPLE X/BONE S	or Exploratory SPRING	[59900]
4. Location of Well (Report location clearly and in accordance with	h any State	requirements.*)		11. Sec., T. R. M. or	Blk. and Surv	ey or Area
At surface SESW / 199 FSL / 2097 FWL / LAT 32.254422	2 / LONG -	103.544881		SEC 35/T23S/R33	E/NMP	
At proposed prod. zone NWNE / 20 FNL / 2178 FEL / LAT	32.282851	/ LONG -103.541	655			
14. Distance in miles and direction from nearest town or post office	*			12. County or Parish LEA	13. NM	State
location to nearest 199 feet	6. No of ac	res in lease	17. Spacir 640.0	ng Unit dedicated to the	his well	
to nearest well, drilling, completed,	9. Proposed 730 feet / 2		20. BLM/ FED: NM	BIA Bond No. in file		
	2. Approxir 9/01/2020	mate date work will	start*	23. Estimated durati 45 days	on	
	24. Attacl	nments				
The following, completed in accordance with the requirements of O (as applicable)	nshore Oil :	and Gas Order No.	I, and the H	lydraulic Fracturing r	ule per 43 CFF	R 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the Item 20 above).	e operation	s unless covered by ar	n existing bond	on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the	5. Operator certific6. Such other site sp BLM.		mation and/or plans as	may be reques	ted by the
25. Signature (Electronic Submission)	Name (Printed/Typed) REBECCA DEAL / Ph: (800) 583-			3866	Date 01/14/2020	
Title Regulatory Compliance Professional	•					
Approved by (Signature) (Electronic Submission)	1	<i>(Printed/Typed)</i> ∟ayton / Ph: (575)	234-5959		Date 06/19/2020	
Title						

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the

Carlsbad Field Office

GCP Rec 06/29/2020

applicant to conduct operations thereon. Conditions of approval, if any, are attached.

Assistant Field Manager Lands & Minerals

APPROVED WITH CONDITIONS

Approval Date: 06/19/2020



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Sea Snake 35-26 State Fed Com 11H

1. Geologic Formations

TVD of target	9730	Pilot hole depth	N/A
MD at TD:	20075	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
P 1	from KB	Zone?	
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.

2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Wt Grade	Conn	Min SF	Min SF	Min SF	
Hole Size	From	To	Csg. Size	(PPF)	(PPF) Grade	Conn	Collapse	Burst	Tension
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	ВТС	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 continengcy 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 with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

Casing Program (Alternative Design)

Hole Size	Casing	Interval	Csg. Size	Wt Grade	Conn	Min SF	Min SF	Min SF	
Hole Size	From	To	Csg. Size	(PPF)	Graue	Conn	Collapse	Burst	Tension
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	

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- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

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	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 specficition 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	Y
assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	Y
of the casing?	1
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 strings cemented to surface?	

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/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
Int	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
	570	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	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	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	580	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	383	500' Tieback	9.0	3.3	Lead: Class H /C + additives
rioduction	2089	КОР	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%

Cementing Program (3-String Alternative Design)

Casing Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	1021	Surf	13.2	1.4	Lead: Class C Cement + additives
Lut	958	Surf	9.0	3.3	Lead: Class C Cement + additives
Int	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
	934	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	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	As Needed	Surf	13.2	1.4	Squeeze Lead: Class C Cement + additives
Intermediate	580	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	167	500' Tieback	9.0	3.3	Lead: Class H /C + additives
rioddetion	2089	КОР	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%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:						
		,,,,	Anı	Annular		50% of rated working pressure						
Int 1	13-58"	5M	Blind	d Ram	X							
1111. 1	13-36	3101	Pipe	Ram		5M						
			Doub	le Ram	X	3101						
			Other*									
	13-5/8"	5M	Annular		X	50% of rated working						
									Pline	d Ram	X	pressure
Production			1 3M		Ram	Λ						
			Double Ram		X	5M						
			Other*									
			Annul	ar (5M)								
			Blind Ram									
			Pipe Ram									
			Double Ram									
			Other*									

5. Mud Program (Three String Design)

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

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
What will be used to mointer the loss of gain of hard.	1 177 ason Tisaar Montoning

6. Logging and Testing Procedures

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

Additional	logs planned	Interval
	Resistivity	
	Density	
X	CBL	Production casing

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	X	Mud log	KOP to TD
ſ		PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4554
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N H2S is present
Y H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- ³ The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will

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be monitored with a pressure gauge installed on the wellhead.

- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments	
X	Directional Plan
	Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 35-23S-33E Sea Snake 35-26 State Fed Com 11H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

08 January, 2020

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Project: Lea County (NAI Site: Sec 35-23S-33E

Well: Sea Snake 35-26 State Fed Com 11H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sea Snake 35-26 State Fed Com 11H

RKB @ 3689.90ft RKB @ 3689.90ft

Grid

Minimum Curvature

Project Lea County (NAD83 New Mexico East)

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

Sec 35-23S-33E Site 457.182.35 usft Northing: Site Position: Latitude: 32.254425 -103.547474 Easting: 784,272.69 usft From: Lat/Long Longitude: **Position Uncertainty:** Slot Radius: 13-3/16 " **Grid Convergence:** 0.42 0.00 ft

Well Sea Snake 35-26 State Fed Com 11H **Well Position** +N/-S 0.00 ft Northing: 457,186.97 usft Latitude: 32.254422 +E/-W 0.00 ft Easting: 785,074.26 usft Longitude: -103.544882 0.50 ft **Position Uncertainty** Wellhead Elevation: Ground Level: 3,664.90 ft

Wellbore Wellbore #1 Declination Dip Angle Field Strength Magnetics **Model Name** Sample Date (°) (°) (nT) IGRF2015 1/6/2020 6.67 60.06 47,694.24521144

Permit Plan 1 Design Audit Notes: **PROTOTYPE** 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 5.09

Plan Survey Tool Program Date 1/8/2020

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 20,074.91 Permit Plan 1 (Wellbore #1) MWD+HDGM

OWSG MWD + HDGM

Plan Sections Vertical Build Measured Dogleg Turn Depth Inclination Depth +N/-S Rate Rate Azimuth +E/-W Rate TFO (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/100usft) (°/100usft) **Target** (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.700.00 0.00 0.00 2.700.00 0.00 0.00 0.00 0.00 0.00 0.00 3,800.92 11.01 98 49 3,794.16 -15.57 104.29 1.00 1.00 0.00 98 49 8,164.63 11.01 98.49 8,077.56 -138.62 928.47 0.00 0.00 0.00 0.00 8,898.58 0.00 0.00 8,807.00 -149.00 998.00 1.50 -1.50 0.00 180.00 9,248.62 0.00 0.00 9,157.04 -149.00 998.00 0.00 0.00 0.00 0.00 10.148.62 90.00 359.58 423.94 993.81 10.00 10.00 0.00 9.730.00 359 58 PBHL - Sea Snake 35 90.00 921.14 0.00 0.00 0.00 0.00 PBHL - Sea Snake 35 20,074.91 359.58 9,730.00 10,349.97

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 35-23S-33E

Well: Sea Snake 35-26 State Fed Com 11H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sea Snake 35-26 State Fed Com 11H

RKB @ 3689.90ft RKB @ 3689.90ft

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
100.00	0.00	0.00	100.00	0.00	0.00	457,186.97	785,074.26	32.254422	- 103.544882
200.00	0.00	0.00	200.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
300.00	0.00	0.00	300.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
400.00	0.00	0.00	400.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
500.00	0.00	0.00	500.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
600.00	0.00	0.00	600.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
700.00	0.00	0.00	700.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
800.00	0.00	0.00	800.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
900.00	0.00	0.00	900.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,000.00	0.00	0.00	1,000.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,100.00	0.00	0.00	1,100.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,200.00	0.00	0.00	1,200.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,300.00	0.00	0.00	1,300.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,400.00	0.00	0.00	1,400.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,500.00	0.00	0.00	1,500.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,600.00	0.00	0.00	1,600.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,700.00	0.00	0.00	1,700.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,800.00	0.00	0.00	1,800.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
1,900.00	0.00	0.00	1,900.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
2,000.00	0.00	0.00	2,000.00	0.00	0.00	457,186.97	785,074.26 785.074.26	32.254422	-103.544882
2,100.00 2,200.00	0.00	0.00 0.00	2,100.00 2,200.00	0.00 0.00	0.00	457,186.97 457.186.97	785,074.26 785,074.26	32.254422 32.254422	-103.544882 -103.544882
2,300.00	0.00 0.00	0.00		0.00	0.00 0.00	457,186.97 457.186.97	785,074.26 785,074.26	32.254422	-103.544882
2,400.00	0.00	0.00	2,300.00 2,400.00	0.00	0.00	457,186.97 457,186.97	785,074.26 785,074.26	32.254422	-103.544882
2,500.00	0.00	0.00	2,500.00	0.00	0.00	457,186.97	785,074.26 785,074.26	32.254422	-103.544882
2,600.00	0.00	0.00	2,600.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
2,700.00	0.00	0.00	2,700.00	0.00	0.00	457,186.97	785,074.26	32.254422	-103.544882
2,800.00	1.00	98.49	2,799.99	-0.13	0.86	457,186.84	785,075.12	32.254422	-103.544879
2,900.00	2.00	98.49	2,899.96	-0.13	3.45	457,186.45	785,077.71	32.254420	-103.544870
3,000.00	3.00	98.49	2,999.86	-1.16	7.77	457,185.81	785,082.02	32.254419	-103.544856
3,100.00	4.00	98.49	3,099.68	-2.06	13.80	457,184.91	785,088.06	32.254416	-103.544837
3,200.00	5.00	98.49	3,199.37	-3.22	21.56	457,183.75	785,095.82	32.254413	-103.544812
3,300.00	6.00	98.49	3,298.90	-4.63	31.04	457,182.34	785,105.30	32.254409	-103.544781
3,400.00	7.00	98.49	3,398.26	-6.31	42.24	457,180.66	785,116.50	32.254404	-103.544745
3,500.00	8.00	98.49	3.497.40	-8.23	55.15	457,178.74	785,129.41	32.254398	-103.544703
3,600.00	9.00	98.49	3,596.30	-10.42	69.77	457,176.55	785,144.02	32.254392	-103.544656
3,700.00	10.00	98.49	3,694.93	-12.85	86.09	457,174.12	785,160.35	32.254385	-103.544603
3,800.00	11.00	98.49	3,793.26	-15.54	104.11	457,171.43	785,178.37	32.254377	-103.544545
3,800.92	11.01	98.49	3,794.16	-15.57	104.29	457,171.40	785,178.55	32.254377	-103.544545
3,900.00	11.01	98.49	3,891.41	-18.36	123.00	457,168.61	785,197.26	32.254369	-103.544484
4,000.00	11.01	98.49	3,989.57	-21.18	141.89	457,165.79	785,216.15	32.254361	-103.544423
4,100.00	11.01	98.49	4,087.73	-24.00	160.78	457,162.97	785,235.03	32.254353	-103.544362
4,200.00	11.01	98.49	4,185.89	-26.82	179.66	457,160.15	785,253.92	32.254345	-103.544301
4,300.00	11.01	98.49	4,284.05	-29.64	198.55	457,157.33	785,272.81	32.254336	-103.544240
4,400.00	11.01	98.49	4,382.21	-32.46	217.44	457,154.51	785,291.70	32.254328	-103.544179
4,500.00	11.01	98.49	4,480.37	-35.28	236.33	457,151.69	785,310.58	32.254320	-103.544118
4,600.00	11.01	98.49	4,578.53	-38.10	255.21	457,148.87	785,329.47	32.254312	-103.544057
4,700.00	11.01	98.49	4,676.69	-40.92	274.10	457,146.05	785,348.36	32.254304	-103.543996
4,800.00	11.01	98.49	4,774.85	-43.74	292.99	457,143.23	785,367.24	32.254296	-103.543935
4,900.00	11.01	98.49	4,873.01	-46.56	311.87	457,140.41	785,386.13	32.254288	-103.543874
5,000.00	11.01	98.49	4,971.17	-49.38	330.76	457,137.59	785,405.02	32.254280	-103.543813
5,100.00	11.01	98.49	5,069.33	-52.20	349.65	457,134.77	785,423.91	32.254271	-103.543752
5,200.00	11.01	98.49	5,167.49	-55.02	368.54	457,131.95	785,442.79	32.254263	-103.543691
5,300.00	11.01	98.49	5,265.65	-57.84	387.42	457,129.13	785,461.68	32.254255	-103.543630

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 35-23S-33E

Well: Sea Snake 35-26 State Fed Com 11H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sea Snake 35-26 State Fed Com 11H

RKB @ 3689.90ft RKB @ 3689.90ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.00	11.01	98.49	5,363.81	-60.66	406.31	457,126.31	785,480.57	32.254247	-103.543569
5,500.00	11.01	98.49	5,461.97	-63.48	425.20	457,123.49	785,499.45	32.254239	- 103.543508
5,600.00	11.01	98.49	5,560.13	-66.30	444.09	457,120.67	785,518.34	32.254231	-103.543447
5,700.00	11.01	98.49	5,658.29	-69.12	462.97	457,117.85	785,537.23	32.254223	-103.543386
5,800.00	11.01	98.49	5,756.45	-71.94	481.86	457,115.03	785,556.12	32.254214	-103.543325
5,900.00	11.01	98.49	5,854.61	-74.76	500.75	457,112.21	785,575.00	32.254206	-103.543264
6,000.00	11.01	98.49	5,952.77	-77.58	519.63	457,109.39	785,593.89	32.254198	-103.543203
6,100.00	11.01	98.49	6,050.93	-80.40	538.52	457,106.57	785,612.78	32.254190	-103.543142
6,200.00	11.01	98.49	6,149.09	-83.22	557.41	457,103.75	785,631.67	32.254182	-103.543081
6,300.00	11.01	98.49	6,247.25	-86.04	576.30	457,100.93	785,650.55	32.254174	-103.543019
6,400.00	11.01	98.49	6,345.41	-88.86	595.18	457,098.11	785,669.44	32.254166	-103.542958
6,500.00	11.01	98.49	6,443.57	-91.68	614.07	457,095.29	785,688.33	32.254158	-103.542897
6,600.00	11.01	98.49	6,541.73	-94.50	632.96	457,092.47	785,707.21	32.254149	-103.542836
6,700.00	11.01	98.49	6,639.89	-97.32	651.85	457,089.65	785,726.10	32.254141	-103.542775
6,800.00	11.01	98.49	6,738.04	-100.14	670.73	457,086.83	785,744.99	32.254133	-103.542714
6,900.00	11.01	98.49	6,836.20	-102.96	689.62	457,084.01	785,763.88	32.254125	-103.542653
7,000.00	11.01	98.49	6,934.36	-105.78	708.51	457,081.19	785,782.76	32.254117	-103.542592
7,100.00	11.01	98.49	7,032.52	-108.60	727.39	457,078.37	785,801.65	32.254109	-103.542531
7,200.00	11.01	98.49	7,130.68	-111.42	746.28	457,075.55	785,820.54	32.254101	-103.542470
7,300.00	11.01	98.49	7,228.84	-114.24	765.17	457,072.73	785,839.43	32.254092	-103.542409
7,400.00	11.01	98.49	7,327.00	-117.06	784.06	457,069.91	785,858.31	32.254084	-103.542348
7,500.00	11.01	98.49	7,425.16	-119.88	802.94	457,067.09	785,877.20	32.254076	-103.542287
7,600.00	11.01	98.49	7,523.32	-122.70	821.83	457,064.27	785,896.09	32.254068	-103.542226
7,700.00	11.01	98.49	7,621.48	-125.52	840.72	457,061.45	785,914.97	32.254060	-103.542165
7,800.00	11.01	98.49	7,719.64	-128.34	859.61	457,058.63	785,933.86	32.254052	-103.542104
7,900.00	11.01	98.49	7,817.80	-131.16	878.49	457,055.81	785,952.75	32.254044	-103.542043
8,000.00	11.01	98.49	7,915.96	-133.98	897.38	457,052.99	785,971.64	32.254036	-103.541982
8,100.00	11.01	98.49	8,014.12	-136.80	916.27	457,050.17	785,990.52	32.254027	-103.541921
8,164.63	11.01	98.49	8,077.56	-138.62	928.47	457,048.35	786,002.73	32.254022	-103.541882
8,200.00	10.48	98.49	8,112.31	-139.59	935.00	457,047.38	786,009.25	32.254019	-103.541861
8,300.00	8.98	98.49	8,210.87	-142.09	951.71	457,044.88	786,025.96	32.254012	-103.541807
8,400.00	7.48	98.49	8,309.84	-144.20	965.86	457,042.77	786,040.12	32.254006	-103.541761
8,500.00	5.98	98.49	8,409.15	-145.93	977.45	457,041.04	786,051.71	32.254001	-103.541723
8,600.00	4.48	98.49	8,508.73	-147.28	986.46	457,039.69	786,060.72	32.253997	-103.541694
8,700.00	2.98	98.49	8,608.51	-148.24	992.90	457,038.73	786,067.15	32.253994	-103.541673
8,800.00	1.48	98.49	8,708.43	-148.81	996.74	457,038.16	786,071.00	32.253993	-103.541661
8,898.58	0.00	0.00	8,807.00	- 149.00	998.00	457,037.97	786,072.26	32.253992	-103.541657
8,900.00	0.00	0.00	8,808.42	-149.00	998.00	457,037.97	786,072.26	32.253992	-103.541657
9,000.00	0.00	0.00	8,908.42	-149.00	998.00	457,037.97	786,072.26	32.253992	-103.541657
9,100.00	0.00	0.00	9,008.42	-149.00	998.00	457,037.97	786,072.26	32.253992	-103.541657
9,200.00	0.00	0.00	9,108.42	-149.00	998.00	457,037.97	786,072.26	32.253992	-103.541657
9,248.62	0.00	0.00	9,157.04	-149.00	998.00	457,037.97	786,072.26	32.253992	-103.541657
_)249' MD, 50' I								
9,300.00	5.14	359.58	9,208.35	-146.70	997.98	457,040.27	786,072.24	32.253999	-103.541657
9,400.00	15.14	359.58	9,306.67	-129.12	997.85	457,057.85	786,072.11	32.254047	-103.541657
9,490.00	24.14	359.58	9,391.35	-98.90	997.63	457,088.07	786,071.89	32.254130	-103.541657
FTP @ 9	490' MD, 100'	FSL, 2178' FI	EL						
9,500.00	25.14	359.58	9,400.44	-94.73	997.60	457,092.24	786,071.86	32.254141	-103.541657
9,600.00	35.14	359.58	9,486.81	-44.59	997.24	457,142.38	786,071.49	32.254279	-103.541657
9,700.00	45.14	359.58	9,563.16	19.79	996.76	457,206.76	786,071.02	32.254456	-103.541657
9,800.00	55.14	359.58	9,627.17	96.45	996.20	457,283.42	786,070.46	32.254667	-103.541657
9,900.00	65.14	359.58	9,676.90	183.06	995.57	457,370.03	786,069.82	32.254905	-103.541657
10,000.00	75.14	359.58	9,710.83	276.99	994.88	457,463.96	786,069.14	32.255163	-103.541657
10,100.00	85.14	359.58	9,727.94	375.38	994.16	457,562.35	786,068.42	32.255434	-103.541657

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 35-23S-33E

Well: Sea Snake 35-26 State Fed Com 11H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sea Snake 35-26 State Fed Com 11H

RKB @ 3689.90ft RKB @ 3689.90ft

Grid

10,148.62 90.00 359.58 9,730.00 423.94 993.81 457,610.91 786,068.06 32.255567 10,200.00 90.00 359.58 9,730.00 475.32 993.43 457,662.29 786,067.69 32.255708 10,300.00 90.00 359.58 9,730.00 575.32 992.70 457,762.29 786,066.95 32.255983 10,400.00 90.00 359.58 9,730.00 675.32 991.97 457,862.29 786,066.22 32.256258 10,500.00 90.00 359.58 9,730.00 775.32 991.23 457,962.28 786,065.49 32.25633 10,600.00 90.00 359.58 9,730.00 875.31 990.50 458,062.28 786,064.76 32.256808 10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32.257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32.257358 10,900.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27	-103.541657 -103.541657 -103.541657 -103.541657 -103.541657 -103.541657 -103.541657
10,200.00 90.00 359.58 9,730.00 475.32 993.43 457,662.29 786,067.69 32,255708 10,300.00 90.00 359.58 9,730.00 575.32 992.70 457,762.29 786,066.95 32,255983 10,400.00 90.00 359.58 9,730.00 675.32 991.97 457,862.29 786,066.22 32,256258 10,500.00 90.00 359.58 9,730.00 775.32 991.23 457,962.28 786,065.49 32,256633 10,600.00 90.00 359.58 9,730.00 875.31 990.50 458,062.28 786,064.76 32,256808 10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32,257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32,257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32,257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27	-103.541657 -103.541657 -103.541657 -103.541657 -103.541657 -103.541657
10,300.00 90.00 359.58 9,730.00 575.32 992.70 457,762.29 786,066.95 32.255983 10,400.00 90.00 359.58 9,730.00 675.32 991.97 457,862.29 786,066.22 32.256258 10,500.00 90.00 359.58 9,730.00 775.32 991.23 457,962.28 786,065.49 32.256533 10,600.00 90.00 359.58 9,730.00 875.31 990.50 458,062.28 786,064.76 32.256808 10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32.257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32.257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,662.27	-103.541657 -103.541657 -103.541657 -103.541657 -103.541657
10,400.00 90.00 359.58 9,730.00 675.32 991.97 457,862.29 786,066.22 32.256258 10,500.00 90.00 359.58 9,730.00 775.32 991.23 457,962.28 786,065.49 32.256533 10,600.00 90.00 359.58 9,730.00 875.31 990.50 458,062.28 786,064.76 32.256808 10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32.257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32.257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 <td>-103.541657 -103.541657 -103.541657 -103.541657</td>	-103.541657 -103.541657 -103.541657 -103.541657
10,500.00 90.00 359.58 9,730.00 775.32 991.23 457,962.28 786,065.49 32.256533 10,600.00 90.00 359.58 9,730.00 875.31 990.50 458,062.28 786,064.76 32.256808 10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32.257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32.257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,060.36 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26<	-103.541657 -103.541657 -103.541657
10,600.00 90.00 359.58 9,730.00 875.31 990.50 458,062.28 786,064.76 32.256808 10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32.257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,062.56 32.257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,061.10 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.2	-103.541657 -103.541657
10,700.00 90.00 359.58 9,730.00 975.31 989.77 458,162.28 786,064.03 32.257083 10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32.257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,060.36 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962	-103.541657
10,800.00 90.00 359.58 9,730.00 1,075.31 989.04 458,262.28 786,063.29 32.257358 10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,060.36 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,0	
10,900.00 90.00 359.58 9,730.00 1,175.30 988.31 458,362.27 786,062.56 32.257632 11,000.00 90.00 359.58 9,730.00 1,275.30 987.57 458,462.27 786,061.83 32.257907 11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,060.36 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	
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11,100.00 90.00 359.58 9,730.00 1,375.30 986.84 458,562.27 786,061.10 32.258182 11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,060.36 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	-103.541657
11,200.00 90.00 359.58 9,730.00 1,475.30 986.11 458,662.26 786,060.36 32.258457 11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	-103.541657
11,300.00 90.00 359.58 9,730.00 1,575.29 985.38 458,762.26 786,059.63 32.258732 11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	-103.541657
11,400.00 90.00 359.58 9,730.00 1,675.29 984.65 458,862.26 786,058.90 32.259007 11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	-103.541657
11,500.00 90.00 359.58 9,730.00 1,775.29 983.91 458,962.26 786,058.17 32.259282 11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	-103.541657
11,600.00 90.00 359.58 9,730.00 1,875.29 983.18 459,062.25 786,057.44 32.259556	-103.541657
	-103.541657
	-103.541657
11,700.00 90.00 359.58 9,730.00 1,975.28 982.45 459,162.25 786,056.70 32.259831	-103.541657
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12,200.00 90.00 359.58 9,730.00 2,475.27 978.79 459,662.24 786,053.04 32.261206	-103.541656
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12,600.00 90.00 359.58 9,730.00 2,875.26 975.86 460,062.22 786,050.12 32.262305 12,700.00 90.00 359.58 9,730.00 2,975.26 975.13 460,162.22 786,049.38 32.262580	-103.541656 -103.541656
12,800.00 90.00 359.58 9,730.00 3,075.25 974.40 460,262.22 786,048.65 32.262855 12,900.00 90.00 359.58 9,730.00 3,175.25 973.66 460,362.21 786,047.92 32.263130	-103.541656 -103.541656
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13,700.00 90.00 359.58 9,730.00 3,975.23 967.81 461,162.19 786,042.06 32.265329	-103.541656
13,800.00 90.00 359.58 9,730.00 4,075.23 967.08 461,262.19 786,041.33 32.265604	-103.541656
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14,000.00 90.00 359.58 9,730.00 4,275.22 965.61 461,462.18 786,039.87 32.266153	-103.541656
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14,200.00 90.00 359.58 9,730.00 4,475.22 964.15 461,662.18 786,038.40 32.266703	-103.541656
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14,400.00 90.00 359.58 9,730.00 4,675.21 962.68 461,862.17 786,036.94 32.267253	-103.541656
14,500.00 90.00 359.58 9,730.00 4,775.21 961.95 461,962.17 786,036.21 32.267528	-103.541656
14,600.00 90.00 359.58 9,730.00 4,875.21 961.22 462,062.17 786,035.48 32.267803	-103.541656
14,700.00 90.00 359.58 9,730.00 4,975.20 960.49 462,162.16 786,034.74 32.268077	-103.541656
14,800.00 90.00 359.58 9,730.00 5,075.20 959.76 462,262.16 786,034.01 32.268352	-103.541656
14,814.00 90.00 359.58 9,730.00 5,089.20 959.65 462,276.16 786,033.91 32.268391	-103.541656
Cross section @ 14814' MD, 0' FSL, 2178' FEL	
14,900.00 90.00 359.58 9,730.00 5,175.20 959.02 462,362.16 786,033.28 32.268627	-103.541656
15,000.00 90.00 359.58 9,730.00 5,175.19 958.29 462,462.15 786,032.55 32.268902	-103.541656
15,100.00 90.00 359.58 9,730.00 5,275.19 957.56 462,562.15 786,031.82 32.269177	-103.541656
15,100.00 90.00 359.58 9,730.00 5,475.19 956.83 462,662.15 786,031.08 32.269452	- 10.3 54 1056

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 35-23S-33E

Well: Sea Snake 35-26 State Fed Com 11H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Sea Snake 35-26 State Fed Com 11H

RKB @ 3689.90ft RKB @ 3689.90ft

Grid

Planned Survey									
Measured Depth In (ft)	nclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,300.00	90.00	359.58	9,730.00	5,575.19	956.10	462,762.15	786,030.35	32.269727	-103.541656
15,400.00	90.00	359.58	9,730.00	5,675.18	955.36	462,862.14	786,029.62	32.270002	- 103.541656
15,500.00	90.00	359.58	9,730.00	5,775.18	954.63	462,962.14	786,028.89	32.270276	-103.541656
15,600.00	90.00	359.58	9,730.00	5,875.18	953.90	463,062.14	786,028.16	32.270551	-103.541656
15,700.00	90.00	359.58	9,730.00	5,975.18	953.17	463,162.13	786,027.42	32.270826	-103.541656
15,800.00	90.00	359.58	9,730.00	6,075.17	952.44	463,262.13	786,026.69	32.271101	-103.541656
15,900.00	90.00	359.58	9,730.00	6,175.17	951.70	463,362.13	786,025.96	32.271376	-103.541656
16,000.00	90.00	359.58	9,730.00	6,275.17	950.97	463,462.13	786,025.23	32.271651	-103.541656
16,100.00	90.00	359.58	9,730.00	6,375.17	950.24	463,562.12	786,024.50	32.271926	-103.541656
16,200.00 16,300.00	90.00 90.00	359.58 359.58	9,730.00 9,730.00	6,475.16 6,575.16	949.51 948.78	463,662.12 463,762.12	786,023.76 786,023.03	32.272200 32.272475	-103.541656 -103.541656
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16,500.00	90.00	359.58	9,730.00	6,775.15	947.31	463,962.11	786,021.57	32.273025	-103.541656
16,600.00	90.00	359.58	9,730.00	6,875.15	946.58	464,062.11	786,020.84	32.273300	-103.541656
16,700.00	90.00	359.58	9,730.00	6,975.15	945.85	464,162.11	786,020.10	32.273575	-103.541656
16,800.00	90.00	359.58	9,730.00	7,075.15	945.12	464.262.10	786,019.37	32.273850	-103.541656
16,900.00	90.00	359.58	9,730.00	7,175.14	944.38	464,362.10	786,018.64	32.274125	-103.541656
17.000.00	90.00	359.58	9.730.00	7,275.14	943.65	464,462.10	786,017.91	32.274399	-103.541656
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17,400.00	90.00	359.58	9,730.00	7,675.13	940.72	464,862.09	786,014.98	32.275499	-103.541656
17,500.00	90.00	359.58	9,730.00	7,775.13	939.99	464,962.08	786,014.25	32.275774	-103.541656
17,600.00	90.00	359.58	9,730.00	7,875.13	939.26	465,062.08	786,013.51	32.276049	-103.541656
17,700.00	90.00	359.58	9,730.00	7,975.12	938.53	465,162.08	786,012.78	32.276324	-103.541655
17,800.00	90.00	359.58	9,730.00	8,075.12	937.80	465,262.07	786,012.05	32.276598	-103.541655
17,900.00	90.00	359.58	9,730.00	8,175.12	937.06	465,362.07	786,011.32	32.276873	-103.541655
18,000.00	90.00	359.58	9,730.00	8,275.11	936.33	465,462.07	786,010.59	32.277148	-103.541655
18,100.00	90.00	359.58	9,730.00	8,375.11	935.60	465,562.07	786,009.85	32.277423	-103.541655
18,200.00	90.00	359.58	9,730.00	8,475.11	934.87	465,662.06	786,009.12	32.277698	-103.541655
18,300.00	90.00	359.58	9,730.00	8,575.11	934.13	465,762.06	786,008.39	32.277973	-103.541655
18,400.00	90.00	359.58	9,730.00	8,675.10	933.40	465,862.06	786,007.66	32.278248	-103.541655
18,500.00	90.00	359.58	9,730.00	8,775.10	932.67	465,962.05	786,006.93	32.278522	-103.541655
18,600.00	90.00	359.58	9,730.00	8,875.10	931.94	466,062.05	786,006.19	32.278797	-103.541655
18,700.00	90.00	359.58	9,730.00	8,975.10	931.21	466,162.05	786,005.46	32.279072	-103.541655
18,800.00	90.00	359.58	9,730.00	9,075.09	930.47	466,262.05	786,004.73	32.279347	-103.541655
18,900.00	90.00	359.58	9,730.00	9,175.09	929.74	466,362.04	786,004.00	32.279622	-103.541655
19,000.00	90.00	359.58	9,730.00	9,275.09	929.01	466,462.04	786,003.27	32.279897	-103.541655
19,100.00	90.00	359.58	9,730.00	9,375.09	928.28	466,562.04	786,002.53	32.280172	-103.541655
19,200.00	90.00	359.58	9,730.00	9,475.08	927.55	466,662.03	786,001.80	32.280447	-103.541655
19,300.00	90.00	359.58	9,730.00	9,575.08	926.81	466,762.03	786,001.07	32.280721	-103.541655
19,400.00	90.00	359.58	9,730.00	9,675.08	926.08	466,862.03	786,000.34	32.280996	-103.541655
19,500.00	90.00	359.58	9,730.00	9,775.07	925.35	466,962.03	785,999.61	32.281271	-103.541655
19,600.00	90.00	359.58	9,730.00	9,875.07	924.62	467,062.02	785,998.87	32.281546	-103.541655
19,700.00	90.00	359.58 359.58	9,730.00 9,730.00	9,975.07	923.89 923.15	467,162.02	785,998.14 785,997.41	32.281821	-103.541655 -103.541655
19,800.00 19,900.00	90.00 90.00	359.58 359.58	9,730.00	10,075.07 10,175.06	923.15 922.42	467,262.02 467,362.01	785,997.41 785,996.68	32.282096 32.282371	-103.541655
19,900.00	90.00	359.58	9,730.00	10,175.06	922.42	467,457.01	785,996.68 785,995.98	32.282632	-103.541655
		339.36 ' FNL, 2178' F		10,210.00	321.73	407,437.01	100,330.30	32.202032	-103.34 1033
20,000.00	90.00	359.58	9,730.00	10,275.06	921.69	467,462.01	785,995.95	32.282646	-103.541655
20,074.90	90.00	359.58	9,730.00	10,349.96	921.14	467,536.91	785,995.40	32.282851	-103.541655
	FNL, 2178' F		,	,		,	,		22.2 300
20,074.91	90.00	359.58	9,730.00	10,349.97	921.14	467,536.92	785,995.40	32.282851	-103.541655

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 35-23S-33E

Well: Sea Snake 35-26 State Fed Com 11H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

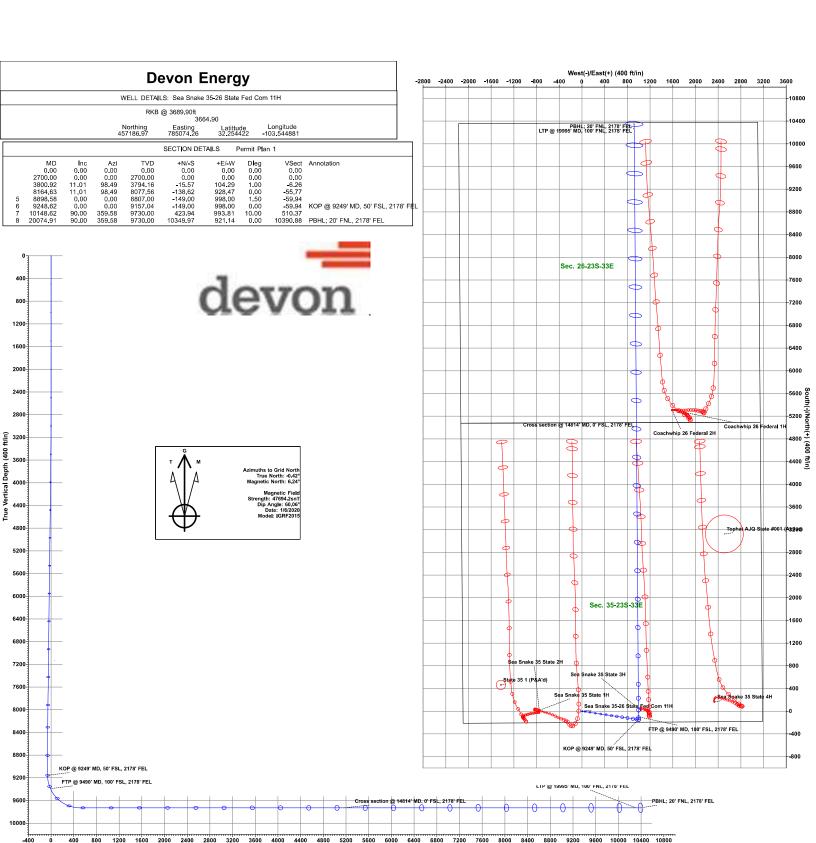
Well Sea Snake 35-26 State Fed Com 11H

RKB @ 3689.90ft RKB @ 3689.90ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Sea Snake 35-20 - plan misses target - Point		0.00 0.00ft at 200	0.00 74.91ft MD (10,349.97 (9730.00 TVD	921.14 , 10349.97 N,	467,536.92 921.14 E)	785,995.40	32.282851	-103.541655

Plan Annotations				
Measured Vertical Local Coc		rdinates		
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
9,248.62	9,157.04	-149.00	998.00	KOP @ 9249' MD, 50' FSL, 2178' FEL
9,490.00	9,391.35	-98.90	997.63	FTP @ 9490' MD, 100' FSL, 2178' FEL
14,814.00	9,730.00	5,089.20	959.65	Cross section @ 14814' MD, 0' FSL, 2178' FEL
19,995.00	9,730.00	10,270.06	921.73	LTP @ 19995' MD, 100' FNL, 2178' FEL
20,074.90	9,730.00	10,349.96	921.14	PBHL; 20' FNL, 2178' FEL



Vertical Section at 5.09° (400 ft/in)

Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

- 1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - **a.** After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.** Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - **a.** The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.

PECOS DISTRICT SURFACE USE

CONDITIONS OF APPROVAL

	C			OTID	OI AII				
Sea Snake 35 Surface Bottom Hole	Section Section	55 35 35	17H T23S, T23S,	R33E R33E	Well Pad 4 247 20	FSL, FNL,	561 1510	FWL, FWL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 35	16H T23S, T23S,	R33E R33E	Well Pad 4 247 20	FSL, FNL,	531 380	FWL, FWL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	11H T23S, T23S,	R33E R33E	Well Pad 5 199 20	FSL, FNL,	2097 2178	FWL, FEL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	14H T23S, T23S,	R33E R33E	Well Pad 5 199 20	FSL, FNL,	2037 1254	FWL, FWL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	15H T23S, T23S,	R33E R33E	Well Pad 5 199 20	FSL, FNL,	2067 2178	FWL, FWL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 35	18H T23S, T23S,	R33E R33E	Well Pad 5 199 20	FSL, FNL,	2127 2638	FWL, FWL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	12H T23S, T23S,	R33E R33E	Well Pad 6 281 20	FSL, FNL,	1449 1404	FEL, FEL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	13H T23S, T23S,	R33E R33E	Well Pad 6 281 20	FSL, FNL,	1419 330	FEL, FEL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	19H T23S, T23S,	R33E R33E	Well Pad 6 281 20	FSL, FNL,	1479 1510	FEL, FEL,	Lea County Lea County
Sea Snake 35 Surface Bottom Hole	Section Section	FED 35 26	20H T23S, T23S,	R33E R33E	Well Pad 6 281 20	FSL, FNL,	1389 330	FEL, FEL,	Lea County Lea County

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

☐ General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Fee Fee Fed
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

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V. SPECIAL REQUIREMENT(S)

Fee Fee FED

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

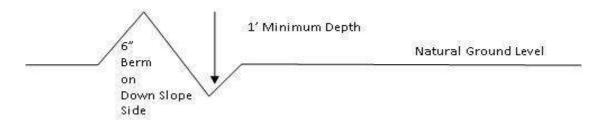
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%} + 100' = 200'$$
 lead-off ditch interval

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil 4. Revegetate slopes 2. Construct road

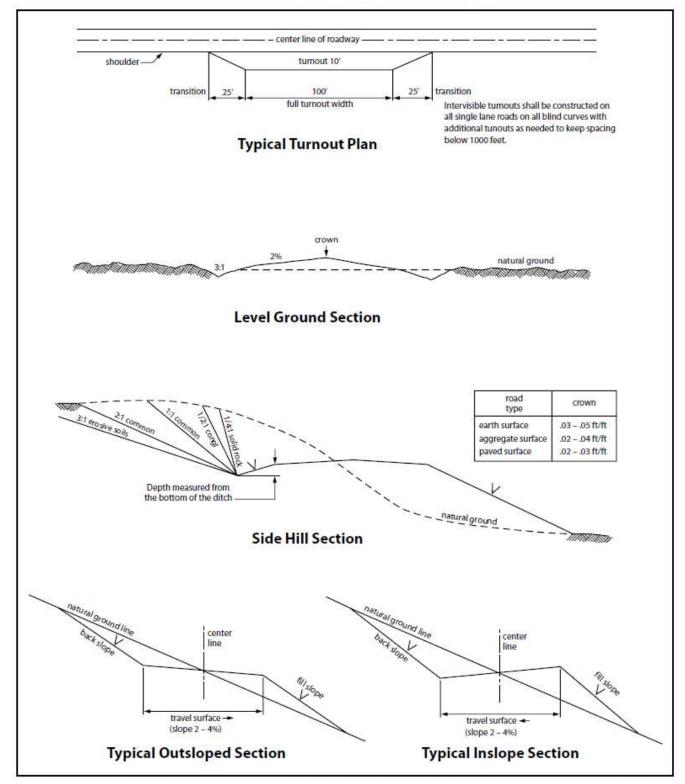


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.					
6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.					
7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:					
• Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (<i>Blading is defined as the complete removal of brush and ground vegetation.</i>)					
• Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)					
• The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (<i>Compressing can be caused by vehicle tires, placement of equipment, etc.</i>)					
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.					
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.					
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.					
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.					

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	will reseed all disturbed areas. Sements, using the following seed	Seeding will be done according to the attached mix.
	() seed mixture 1	() seed mixture 3
	(XX) seed mixture 2	() seed mixture 4
	() seed mixture 2/LPC	() Aplomado Falcon Mixture
to blend with th	ne natural color of the landscape.	afety requirements shall be painted by the holder The paint used shall be color which simulates n , Munsell Soil Color No. 5Y 4/2.
way and at all number, and th	road crossings. At a minimum, si e product being transported. All	ne point of origin and completion of the right-of- gns will state the holder's name, BLM serial signs and information thereon will be posted in a intained in a legible condition for the life of the
maintenance as before mainten pipeline route i	s determined necessary by the Au ance begins. The holder will take s not used as a roadway. As dete	s a road for purposes other than routine thorized Officer in consultation with the holder whatever steps are necessary to ensure that the rmined necessary during the life of the pipeline, instruct temporary deterrence structures.
discovered by t immediately re immediate area Authorized Off determine appr holder will be t	the holder, or any person working ported to the Authorized Officer. It of such discovery until written a ficer. An evaluation of the discovery opriate actions to prevent the loss responsible for the cost of evaluation	es (historic or prehistoric site or object) g on his behalf, on public or Federal land shall be Holder shall suspend all operations in the uthorization to proceed is issued by the very will be made by the Authorized Officer to s of significant cultural or scientific values. The tion and any decision as to proper mitigation or after consulting with the holder.
of operations. Which includes of weeds due to	Weed control shall be required on associated roads, pipeline corrid this action. The operator shall c	xious weeds become established within the areas the disturbed land where noxious weeds exist, or and adjacent land affected by the establishment onsult with the Authorized Officer for acceptable EPA and BLM requirements and policies.
otherwise fence	ed, screened, or netted to prevent	and maintain pipeline/utility trenches that are not livestock, wildlife, and humans from becoming struct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant

cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

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After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Sand dropseed (Sporobolus cryptandrus) 1	/acre
Sand love grass (Eragrostis trichodes) 1 Plains bristlegrass (Setaria macrostachya) 2	0

^{*}Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP NMNM121489 LEASE NO.: **LOCATION:** Section 35, T.23 S., R.33 E., NMPM Lea County, New Mexico **COUNTY:** WELL NAME & NO.: Sea Snake 35-26 State Fed Com 11H 199'/S & 2097'/W **SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE** 20'/N & 2178'/E WELL NAME & NO.: Sea Snake 35-26 State Fed Com 12H 281'/S & 1449'/E **SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE** 20'/N & 1254'/E WELL NAME & NO.: Sea Snake 35-26 State Fed Com 13H **SURFACE HOLE FOOTAGE:** 281'/S & 1419'/E **BOTTOM HOLE FOOTAGE** 20'/N & 330'/E WELL NAME & NO.: Sea Snake 35-26 State Fed Com 19H **SURFACE HOLE FOOTAGE:** 281'/S & 1479'/E **BOTTOM HOLE FOOTAGE** 20'/N & 1510'/E WELL NAME & NO.: Sea Snake 35-26 State Fed Com 20H **SURFACE HOLE FOOTAGE:** 281'/S & 1389'/E **BOTTOM HOLE FOOTAGE** 20'/N & 330'/E COA © No H2S TYes Potash None Secretary **R**-111-P Cave/Karst Potential **□** Low ☐ Medium High Critical Cave/Karst Potential ☐ None **□** Flex Hose C Other Variance Wellhead Conventional Multibowl ☐ Both Other ☐ 4 String Area ☐ Capitan Reef □ WIPP ▼ Fluid Filled **☑** Cement Squeeze ☐ Pilot Hole Other Special Requirements ☐ Water Disposal ✓ COM Unit

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OPERATOR IS ONLY APPROVED FOR THE FOLLOWING DESIGN, OTHER DESIGNS SUBMITTED WILL BE VOID.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1358 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing shall be set at approximately 5258 feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

Page 3 of 9

•	In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

- hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Page 9 of 9



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

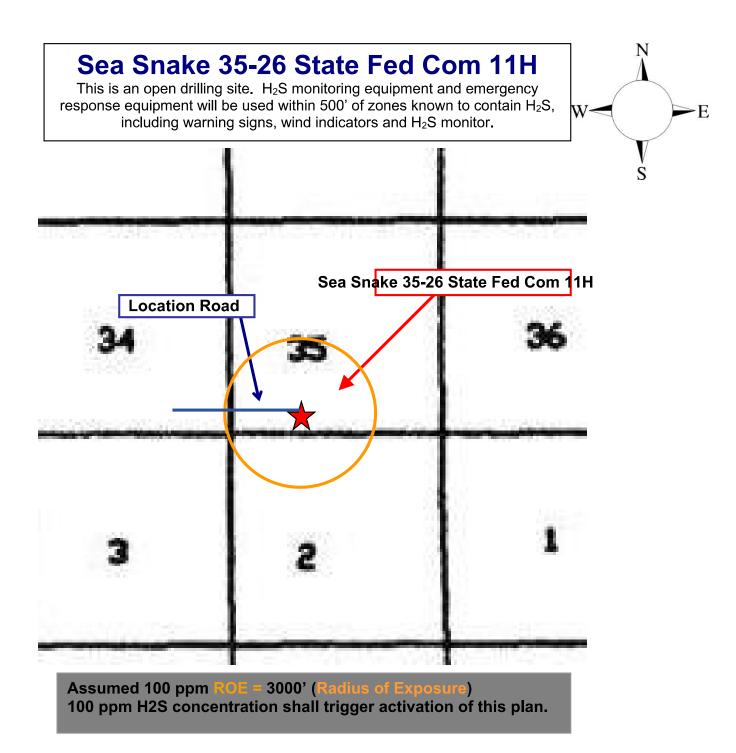
Hydrogen Sulfide (H₂S) Contingency Plan

For

Sea Snake 35-26 State Fed Com 11H

Sec-35 T-23S R-33E 199' FSL & 2097' FWL LAT. = 32.254422' N (NAD83) LONG = 103.544881' W

Lea County NM



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,
 - o 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	Chemical	Specific	Threshold	Hazardous	Lethal				
Name	Formula	Gravity	Limit	Limit	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:

- 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 H_2S 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 H_2S .

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:

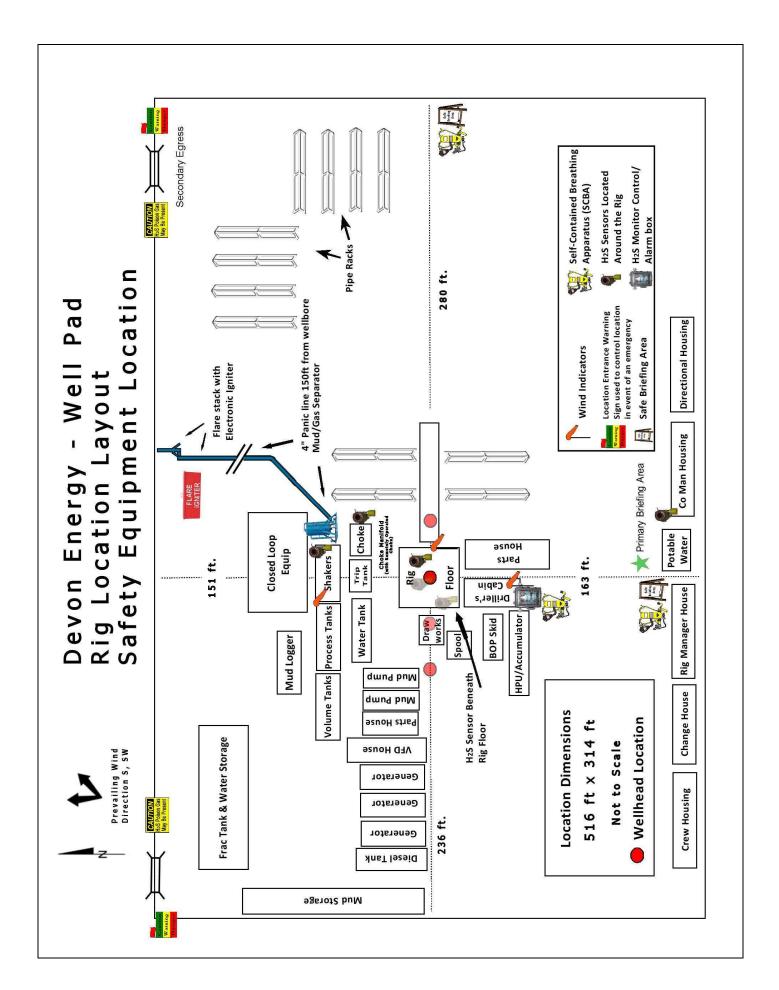
- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

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.

Devon En	ergy Corp. Company Call List			
Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796		
EHS Profe	essional – Laura Wright	405-439-8129		
<u>Agency</u>	Call List			
Lea	Hobbs			
<u>County</u>	Lea County Communication Authority	393-3981		
<u>(575)</u>	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</u>	Carlsbad			
County	State Police	885-3137		
<u>(575)</u>	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		
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429		
GPS	Flight For Life - Lubbock, TX	(806) 743-9911		
position:	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			





DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

State of New Mexico Energy, Minerals & Natural Resources Department

CONSERVATION DIVISION

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

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FR. NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

RECEIVED

Revised August 1, 2011
Revised August 1, 2011
OCD HOBBSsubmit one copy to appropriate
District Off. 06|29|2020

□ AMENDED REPORT

	WELL LOCATION AND	ACREAGE DEDICATION PLAT					
API Number	Pool Code	Pool Name					
30-025-47395	59900	TRIPLE X;BONE SPRING					
Property Code	Prop	erty Name	Well Number				
328510	SEA SNAKE 35-	SEA SNAKE 35-26 STATE FED COM					
OGRID No.	0per	ator Name	Elevation				
6137	DEVON ENERGY PRO	DUCTION COMPANY, L.P.	3664.9'				

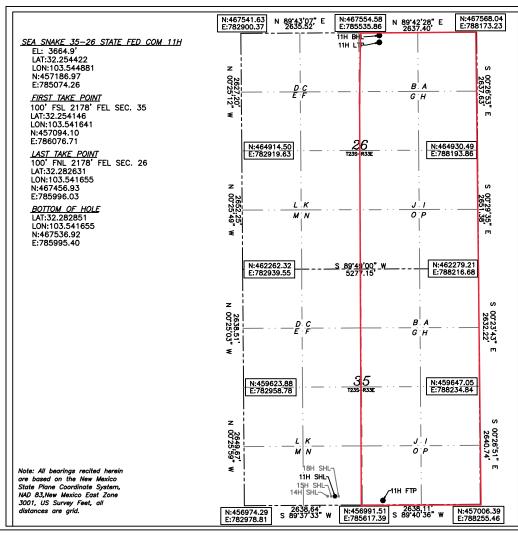
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	23-S	33-E		199	SOUTH	2097	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
В	26	23-S	33-E		20	NORTH	2178	EAST	LEA
Dedicated Acre	s Joint o	r Infill (onsolidation (Code Or	der No.				
640									

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 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.

> 1/6/2020 Date

Signature

Rebecca Deal, Regulatory Analyst

Printed Name

rebecca.deal@dvn.com

E-mail Address

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.

11/2019 Date of Survey

& Seal of Professional Surveyor Signature



Certificate No. 22404

DRAWN BY: CM

Intent	t X	As Dril	led										
API#	30-025-	47395											
DEV	rator Nar /ON EN MPANY	IERGY F	RODUC	l	Property Name: SEA SNAKE 35-26 STATE FED COM						COM	Well Number 11H	
Kick C	Off Point	(KOP)											
UL	Section 35	Township 23S	Range 33E	Lot	Feet 50		From N/S FSL	Fee 217		From	n E/W	County LEA	
Latitu 32.2	ide 253992	2	l	<u> </u>	Longitu		657			l		NAD 83	
												l	
First 1	ake Poin	t (FTP)	Range	Lot	Feet		From N/S	Fee	+	Erom	n E/W	County	
O	35	23-S	33-E		100 Longitu	ıde	SOUTH			EAS		LEA	
	<u>2</u> 541	46			_		1641					83	
Last T	ake Poin	t (LTP)											
и В	Section 26	Township 23-S	Range 33-E	Lot	Feet 100		n N/S Fee		From		Count LEA		
32.	2826	31			Longitu 103	ude NAD 83							
										•			
Is this	well the	defining v	vell for th	e Horiz	ontal Si	nacina	Unit?	N					
							,						
Is this	well an i	infill well?		Υ]								
	l is yes pl ng Unit.	lease prov	ide API if a	availab	le, Opei	rator	Name and	well r	numbei	r for [Definir	ng well fo	r Horizontal
API#]										
-	rator Nar on Ene	me: rgy Prod	uction C	Property Name: Well Number Sea Snake 35-26 State Fed 12H					Well Number 12H				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

1/12/2020

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

OCD - HOBBS 06|29|2020 PECEIVED

GAS CAPTURE PLAN

Date: 1/13/2020	
⊠ Original	Operator & OGRID No.: Devon Production Co. LP (6137)
☐ 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, recomplete 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 - Sea Snake 35 CTB 3

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

Well Name	API	Well Loc.	Footages	Exp MCF/D	Flared or Vented	Comments
Sea Snake 35 State 14H		35-23S-33E	199 FSL & 2037 FWL			Connects to Sea Snake 35 CTB 3
Sea Snake 35 State 15H		35-23S-33E	199 FSL & 2067 FWL			Connects to Sea Snake 35 CTB 3
Sea Snake 35-26 State Fed Com 11H 30-02			199 FSL & 2097 FWL			Connects to Sea Snake 35 CTB 3
Sea Snake 35 State 18H		35-23S-33E	199 FSL & 2127 FWL			Connects to Sea Snake 35 CTB 3

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 <u>Lucid</u> and will be connected to <u>Lucid</u> low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to low/ high pressure gathering system. Devon Energy provides (periodically) to <u>Lucid</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Devon Energy</u> and <u>Lucid</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Red Hills 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 <u>Lucid</u> system at that time. Based on current information, it is <u>Devon's</u> belief the system can take this gas upon completion of the well(s).

Alternatives to Reduce Flaring

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

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