

OCD - HOBBS
09/14/2020
RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM114988
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP [6137]		8. Lease Name and Well No. SEAWOLF 12-1 FED [315247] 10H
3a. Address 333 West Sheridan Avenue, Oklahoma City, OK 73102	3b. Phone No. (include area code) (800) 583-3866	9. API Well No. 30-025-47753
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW / 370 FSL / 440 FWL / LAT 32.051726 / LONG -103.533172 At proposed prod. zone NWNW / 320 FNL / 330 FWL / LAT 32.078858 / LONG -103.533527		10. Field and Pool, or Exploratory [97741] WC-025 G-09 S253335K/BONE SPRING
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 12/T26S/R33E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 370 feet		12. County or Parish LEA
16. No of acres in lease 1280		13. State NM
17. Spacing Unit dedicated to this well 320.0		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 86 feet		20. BLM/BIA Bond No. in file FED: NMB000801
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3342 feet		22. Approximate date work will start* 03/20/2021
23. Estimated duration 45 days		
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) REBECCA DEAL / Ph: (800) 583-3866	Date 06/24/2020
Title Regulatory Compliance Professional		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575) 234-5959	Date 09/09/2020
Title Assistant Field Manager Lands & Minerals Carlsbad Field Office		

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

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.

GCP Rec 09/14/2020

SL

APPROVED WITH CONDITIONS
Approval Date: 09/09/2020

KZ
10/05/2020

1. Geologic Formations

TVD of target	10650	Pilot hole depth	N/A
MD at TD:	20604	Deepest expected fresh water	

Basin

[illegible]

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

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	1005	0	1005
12 1/4	9 5/8	40	J-55	BTC	0	5110	0	5110
8 3/4	5 1/2	17	P110	BTC	0	20604	0	10650

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	766	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	565	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	565	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	467	500' tieback	9.0	3.3	Lead: Class H /C + additives
	2029	KOP	13.2	1.4	Tail: Class H / C + additives

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	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

5. Mud Program (Three String Design)

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

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

Additional logs planned		Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	4984
Abnormal temperature	No

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

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 12-T26S-R33E

Seawolf 12-1 Fed 10H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

11 June, 2020

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Seawolf 12-1 Fed 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3367.30ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3367.30ft
Site:	Sec 12-T26S-R33E	North Reference:	Grid
Well:	Seawolf 12-1 Fed 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

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		

Site		Sec 12-T26S-R33E			
Site Position:		Northing:	383,134.75 usft	Latitude:	32.050692
From:	Map	Easting:	794,089.67 usft	Longitude:	-103.517536
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	Seawolf 12-1 Fed 10H					
Well Position	+N/-S	0.00 ft	Northing:	383,484.42 usft	Latitude:	32.051753
	+E/-W	0.00 ft	Easting:	789,242.14 usft	Longitude:	-103.533172
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,342.30 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/10/2020	6.60	59.87	47,534.40115523

Design	Permit Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	358.94

Plan Survey Tool Program	Date	6/11/2020		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,603.96 Permit Plan 1 (Wellbore #1)	MWD+IFR1 OWSG MWD + IFR1	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,834.70	3.35	198.43	3,834.51	-9.27	-3.09	1.00	1.00	0.00	198.43	
9,513.87	3.35	198.43	9,504.00	-323.82	-107.94	0.00	0.00	0.00	0.00	
9,737.00	0.00	0.00	9,727.00	-330.00	-110.00	1.50	-1.50	0.00	180.00	
10,087.04	0.00	0.00	10,077.04	-330.00	-110.00	0.00	0.00	0.00	0.00	
10,987.05	90.00	359.59	10,650.00	242.94	-114.10	10.00	10.00	0.00	359.59	PBHL - Seawolf 12-1
20,603.96	90.00	359.59	10,650.00	9,859.61	-182.97	0.00	0.00	0.00	0.00	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Seawolf 12-1 Fed 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3367.30ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3367.30ft
Site:	Sec 12-T26S-R33E	North Reference:	Grid
Well:	Seawolf 12-1 Fed 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

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	383,484.42	789,242.14	32.051753	-103.533172
100.00	0.00	0.00	100.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
200.00	0.00	0.00	200.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
300.00	0.00	0.00	300.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
400.00	0.00	0.00	400.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
500.00	0.00	0.00	500.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
600.00	0.00	0.00	600.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
700.00	0.00	0.00	700.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
800.00	0.00	0.00	800.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
900.00	0.00	0.00	900.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,000.00	0.00	0.00	1,000.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,100.00	0.00	0.00	1,100.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,200.00	0.00	0.00	1,200.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,300.00	0.00	0.00	1,300.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,400.00	0.00	0.00	1,400.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,500.00	0.00	0.00	1,500.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,600.00	0.00	0.00	1,600.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,700.00	0.00	0.00	1,700.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,800.00	0.00	0.00	1,800.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
1,900.00	0.00	0.00	1,900.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,000.00	0.00	0.00	2,000.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,100.00	0.00	0.00	2,100.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,200.00	0.00	0.00	2,200.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,300.00	0.00	0.00	2,300.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,400.00	0.00	0.00	2,400.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,500.00	0.00	0.00	2,500.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,600.00	0.00	0.00	2,600.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,700.00	0.00	0.00	2,700.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,800.00	0.00	0.00	2,800.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
2,900.00	0.00	0.00	2,900.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,000.00	0.00	0.00	3,000.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,100.00	0.00	0.00	3,100.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,200.00	0.00	0.00	3,200.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,300.00	0.00	0.00	3,300.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,400.00	0.00	0.00	3,400.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,500.00	0.00	0.00	3,500.00	0.00	0.00	383,484.42	789,242.14	32.051753	-103.533172
3,600.00	1.00	198.43	3,600.00	-0.83	-0.28	383,483.59	789,241.86	32.051751	-103.533173
3,700.00	2.00	198.43	3,699.96	-3.31	-1.10	383,481.11	789,241.03	32.051744	-103.533176
3,800.00	3.00	198.43	3,799.86	-7.45	-2.48	383,476.97	789,239.65	32.051733	-103.533180
3,834.70	3.35	198.43	3,834.51	-9.27	-3.09	383,475.15	789,239.05	32.051728	-103.533182
3,900.00	3.35	198.43	3,899.70	-12.89	-4.30	383,471.53	789,237.84	32.051718	-103.533186
4,000.00	3.35	198.43	3,999.53	-18.43	-6.14	383,465.99	789,236.00	32.051703	-103.533192
4,100.00	3.35	198.43	4,099.36	-23.97	-7.99	383,460.45	789,234.15	32.051687	-103.533198
4,200.00	3.35	198.43	4,199.19	-29.50	-9.83	383,454.91	789,232.30	32.051672	-103.533205
4,300.00	3.35	198.43	4,299.02	-35.04	-11.68	383,449.38	789,230.46	32.051657	-103.533211
4,400.00	3.35	198.43	4,398.85	-40.58	-13.53	383,443.84	789,228.61	32.051642	-103.533217
4,500.00	3.35	198.43	4,498.67	-46.12	-15.37	383,438.30	789,226.76	32.051627	-103.533223
4,600.00	3.35	198.43	4,598.50	-51.66	-17.22	383,432.76	789,224.92	32.051612	-103.533229
4,700.00	3.35	198.43	4,698.33	-57.20	-19.07	383,427.22	789,223.07	32.051596	-103.533235
4,800.00	3.35	198.43	4,798.16	-62.74	-20.91	383,421.68	789,221.23	32.051581	-103.533241
4,900.00	3.35	198.43	4,897.99	-68.27	-22.76	383,416.14	789,219.38	32.051566	-103.533247
5,000.00	3.35	198.43	4,997.82	-73.81	-24.60	383,410.61	789,217.53	32.051551	-103.533253
5,100.00	3.35	198.43	5,097.65	-79.35	-26.45	383,405.07	789,215.69	32.051536	-103.533259
5,200.00	3.35	198.43	5,197.48	-84.89	-28.30	383,399.53	789,213.84	32.051520	-103.533265
5,300.00	3.35	198.43	5,297.31	-90.43	-30.14	383,393.99	789,211.99	32.051505	-103.533272

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Seawolf 12-1 Fed 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3367.30ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3367.30ft
Site:	Sec 12-T26S-R33E	North Reference:	Grid
Well:	Seawolf 12-1 Fed 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

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	3.35	198.43	5,397.14	-95.97	-31.99	383,388.45	789,210.15	32.051490	-103.533278
5,500.00	3.35	198.43	5,496.97	-101.51	-33.84	383,382.91	789,208.30	32.051475	-103.533284
5,600.00	3.35	198.43	5,596.80	-107.04	-35.68	383,377.37	789,206.46	32.051460	-103.533290
5,700.00	3.35	198.43	5,696.63	-112.58	-37.53	383,371.84	789,204.61	32.051445	-103.533296
5,800.00	3.35	198.43	5,796.46	-118.12	-39.37	383,366.30	789,202.76	32.051429	-103.533302
5,900.00	3.35	198.43	5,896.29	-123.66	-41.22	383,360.76	789,200.92	32.051414	-103.533308
6,000.00	3.35	198.43	5,996.12	-129.20	-43.07	383,355.22	789,199.07	32.051399	-103.533314
6,100.00	3.35	198.43	6,095.95	-134.74	-44.91	383,349.68	789,197.23	32.051384	-103.533320
6,200.00	3.35	198.43	6,195.78	-140.28	-46.76	383,344.14	789,195.38	32.051369	-103.533326
6,300.00	3.35	198.43	6,295.60	-145.82	-48.61	383,338.60	789,193.53	32.051353	-103.533332
6,400.00	3.35	198.43	6,395.43	-151.35	-50.45	383,333.07	789,191.69	32.051338	-103.533339
6,500.00	3.35	198.43	6,495.26	-156.89	-52.30	383,327.53	789,189.84	32.051323	-103.533345
6,600.00	3.35	198.43	6,595.09	-162.43	-54.14	383,321.99	789,187.99	32.051308	-103.533351
6,700.00	3.35	198.43	6,694.92	-167.97	-55.99	383,316.45	789,186.15	32.051293	-103.533357
6,800.00	3.35	198.43	6,794.75	-173.51	-57.84	383,310.91	789,184.30	32.051277	-103.533363
6,900.00	3.35	198.43	6,894.58	-179.05	-59.68	383,305.37	789,182.46	32.051262	-103.533369
7,000.00	3.35	198.43	6,994.41	-184.59	-61.53	383,299.83	789,180.61	32.051247	-103.533375
7,100.00	3.35	198.43	7,094.24	-190.12	-63.37	383,294.29	789,178.76	32.051232	-103.533381
7,200.00	3.35	198.43	7,194.07	-195.66	-65.22	383,288.76	789,176.92	32.051217	-103.533387
7,300.00	3.35	198.43	7,293.90	-201.20	-67.07	383,283.22	789,175.07	32.051202	-103.533393
7,400.00	3.35	198.43	7,393.73	-206.74	-68.91	383,277.68	789,173.22	32.051186	-103.533399
7,500.00	3.35	198.43	7,493.56	-212.28	-70.76	383,272.14	789,171.38	32.051171	-103.533406
7,600.00	3.35	198.43	7,593.39	-217.82	-72.61	383,266.60	789,169.53	32.051156	-103.533412
7,700.00	3.35	198.43	7,693.22	-223.36	-74.45	383,261.06	789,167.69	32.051141	-103.533418
7,800.00	3.35	198.43	7,793.05	-228.89	-76.30	383,255.52	789,165.84	32.051126	-103.533424
7,900.00	3.35	198.43	7,892.88	-234.43	-78.14	383,249.99	789,163.99	32.051110	-103.533430
8,000.00	3.35	198.43	7,992.71	-239.97	-79.99	383,244.45	789,162.15	32.051095	-103.533436
8,100.00	3.35	198.43	8,092.53	-245.51	-81.84	383,238.91	789,160.30	32.051080	-103.533442
8,200.00	3.35	198.43	8,192.36	-251.05	-83.68	383,233.37	789,158.45	32.051065	-103.533448
8,300.00	3.35	198.43	8,292.19	-256.59	-85.53	383,227.83	789,156.61	32.051050	-103.533454
8,400.00	3.35	198.43	8,392.02	-262.13	-87.38	383,222.29	789,154.76	32.051034	-103.533460
8,500.00	3.35	198.43	8,491.85	-267.66	-89.22	383,216.75	789,152.92	32.051019	-103.533466
8,600.00	3.35	198.43	8,591.68	-273.20	-91.07	383,211.22	789,151.07	32.051004	-103.533473
8,700.00	3.35	198.43	8,691.51	-278.74	-92.91	383,205.68	789,149.22	32.050989	-103.533479
8,800.00	3.35	198.43	8,791.34	-284.28	-94.76	383,200.14	789,147.38	32.050974	-103.533485
8,900.00	3.35	198.43	8,891.17	-289.82	-96.61	383,194.60	789,145.53	32.050959	-103.533491
9,000.00	3.35	198.43	8,991.00	-295.36	-98.45	383,189.06	789,143.69	32.050943	-103.533497
9,100.00	3.35	198.43	9,090.83	-300.90	-100.30	383,183.52	789,141.84	32.050928	-103.533503
9,200.00	3.35	198.43	9,190.66	-306.43	-102.14	383,177.98	789,139.99	32.050913	-103.533509
9,300.00	3.35	198.43	9,290.49	-311.97	-103.99	383,172.45	789,138.15	32.050898	-103.533515
9,400.00	3.35	198.43	9,390.32	-317.51	-105.84	383,166.91	789,136.30	32.050883	-103.533521
9,500.00	3.35	198.43	9,490.15	-323.05	-107.68	383,161.37	789,134.45	32.050867	-103.533527
9,513.87	3.35	198.43	9,504.00	-323.82	-107.94	383,160.60	789,134.20	32.050865	-103.533528
9,600.00	2.06	198.43	9,590.03	-327.67	-109.22	383,156.75	789,132.91	32.050855	-103.533532
9,700.00	0.56	198.43	9,690.00	-329.83	-109.94	383,154.59	789,132.19	32.050849	-103.533535
9,737.00	0.00	0.00	9,727.00	-330.00	-110.00	383,154.42	789,132.14	32.050848	-103.533535
9,800.00	0.00	0.00	9,790.00	-330.00	-110.00	383,154.42	789,132.14	32.050848	-103.533535
9,900.00	0.00	0.00	9,890.00	-330.00	-110.00	383,154.42	789,132.14	32.050848	-103.533535
10,000.00	0.00	0.00	9,990.00	-330.00	-110.00	383,154.42	789,132.14	32.050848	-103.533535
10,087.00	0.00	0.00	10,077.00	-330.00	-110.00	383,154.42	789,132.14	32.050848	-103.533535
KOP @ 10087' MD, 50' FSL, 330' FWL									
10,087.04	0.00	0.00	10,077.04	-330.00	-110.00	383,154.42	789,132.14	32.050848	-103.533535
10,100.00	1.30	359.59	10,089.99	-329.85	-110.00	383,154.57	789,132.14	32.050849	-103.533535
10,200.00	11.30	359.59	10,189.27	-318.90	-110.08	383,165.52	789,132.06	32.050879	-103.533535

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Seawolf 12-1 Fed 10H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3367.30ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3367.30ft
Site:	Sec 12-T26S-R33E	North Reference:	Grid
Well:	Seawolf 12-1 Fed 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,300.00	21.30	359.59	10,285.13	-290.88	-110.28	383,193.54	789,131.86	32.050956	-103.533535
10,328.00	24.10	359.59	10,310.96	-280.08	-110.36	383,204.34	789,131.78	32.050986	-103.533535
FTP @ 10328' MD, 100' FSL, 330' FWL									
10,400.00	31.30	359.59	10,374.67	-246.64	-110.60	383,237.78	789,131.54	32.051078	-103.533535
10,500.00	41.30	359.59	10,455.16	-187.52	-111.02	383,296.90	789,131.12	32.051240	-103.533535
10,600.00	51.30	359.59	10,524.17	-115.32	-111.54	383,369.10	789,130.60	32.051438	-103.533535
10,700.00	61.30	359.59	10,579.59	-32.24	-112.13	383,452.18	789,130.01	32.051667	-103.533535
10,800.00	71.30	359.59	10,619.74	59.21	-112.79	383,543.63	789,129.35	32.051918	-103.533535
10,900.00	81.30	359.59	10,643.40	156.23	-113.48	383,640.65	789,128.66	32.052185	-103.533535
10,987.05	90.00	359.59	10,650.00	242.94	-114.10	383,727.36	789,128.03	32.052423	-103.533535
11,000.00	90.00	359.59	10,650.00	255.90	-114.20	383,740.32	789,127.94	32.052459	-103.533535
11,100.00	90.00	359.59	10,650.00	355.90	-114.91	383,840.31	789,127.23	32.052734	-103.533534
11,200.00	90.00	359.59	10,650.00	455.89	-115.63	383,940.31	789,126.51	32.053009	-103.533534
11,300.00	90.00	359.59	10,650.00	555.89	-116.34	384,040.31	789,125.79	32.053284	-103.533534
11,400.00	90.00	359.59	10,650.00	655.89	-117.06	384,140.30	789,125.08	32.053558	-103.533534
11,500.00	90.00	359.59	10,650.00	755.89	-117.78	384,240.30	789,124.36	32.053833	-103.533534
11,600.00	90.00	359.59	10,650.00	855.88	-118.49	384,340.30	789,123.65	32.054108	-103.533534
11,700.00	90.00	359.59	10,650.00	955.88	-119.21	384,440.30	789,122.93	32.054383	-103.533534
11,800.00	90.00	359.59	10,650.00	1,055.88	-119.92	384,540.29	789,122.21	32.054658	-103.533534
11,900.00	90.00	359.59	10,650.00	1,155.87	-120.64	384,640.29	789,121.50	32.054933	-103.533534
12,000.00	90.00	359.59	10,650.00	1,255.87	-121.36	384,740.29	789,120.78	32.055208	-103.533534
12,100.00	90.00	359.59	10,650.00	1,355.87	-122.07	384,840.29	789,120.06	32.055483	-103.533534
12,200.00	90.00	359.59	10,650.00	1,455.87	-122.79	384,940.28	789,119.35	32.055757	-103.533534
12,300.00	90.00	359.59	10,650.00	1,555.86	-123.51	385,040.28	789,118.63	32.056032	-103.533533
12,400.00	90.00	359.59	10,650.00	1,655.86	-124.22	385,140.28	789,117.92	32.056307	-103.533533
12,500.00	90.00	359.59	10,650.00	1,755.86	-124.94	385,240.27	789,117.20	32.056582	-103.533533
12,600.00	90.00	359.59	10,650.00	1,855.86	-125.65	385,340.27	789,116.48	32.056857	-103.533533
12,700.00	90.00	359.59	10,650.00	1,955.85	-126.37	385,440.27	789,115.77	32.057132	-103.533533
12,800.00	90.00	359.59	10,650.00	2,055.85	-127.09	385,540.27	789,115.05	32.057407	-103.533533
12,900.00	90.00	359.59	10,650.00	2,155.85	-127.80	385,640.26	789,114.34	32.057682	-103.533533
13,000.00	90.00	359.59	10,650.00	2,255.85	-128.52	385,740.26	789,113.62	32.057956	-103.533533
13,100.00	90.00	359.59	10,650.00	2,355.84	-129.23	385,840.26	789,112.90	32.058231	-103.533533
13,200.00	90.00	359.59	10,650.00	2,455.84	-129.95	385,940.26	789,112.19	32.058506	-103.533533
13,300.00	90.00	359.59	10,650.00	2,555.84	-130.67	386,040.25	789,111.47	32.058781	-103.533533
13,400.00	90.00	359.59	10,650.00	2,655.84	-131.38	386,140.25	789,110.76	32.059056	-103.533533
13,500.00	90.00	359.59	10,650.00	2,755.83	-132.10	386,240.25	789,110.04	32.059331	-103.533533
13,600.00	90.00	359.59	10,650.00	2,855.83	-132.82	386,340.24	789,109.32	32.059606	-103.533532
13,700.00	90.00	359.59	10,650.00	2,955.83	-133.53	386,440.24	789,108.61	32.059881	-103.533532
13,800.00	90.00	359.59	10,650.00	3,055.83	-134.25	386,540.24	789,107.89	32.060156	-103.533532
13,900.00	90.00	359.59	10,650.00	3,155.82	-134.96	386,640.24	789,107.17	32.060430	-103.533532
14,000.00	90.00	359.59	10,650.00	3,255.82	-135.68	386,740.23	789,106.46	32.060705	-103.533532
14,100.00	90.00	359.59	10,650.00	3,355.82	-136.40	386,840.23	789,105.74	32.060980	-103.533532
14,200.00	90.00	359.59	10,650.00	3,455.82	-137.11	386,940.23	789,105.03	32.061255	-103.533532
14,300.00	90.00	359.59	10,650.00	3,555.81	-137.83	387,040.22	789,104.31	32.061530	-103.533532
14,400.00	90.00	359.59	10,650.00	3,655.81	-138.54	387,140.22	789,103.59	32.061805	-103.533532
14,500.00	90.00	359.59	10,650.00	3,755.81	-139.26	387,240.22	789,102.88	32.062080	-103.533532
14,600.00	90.00	359.59	10,650.00	3,855.81	-139.98	387,340.22	789,102.16	32.062355	-103.533532
14,700.00	90.00	359.59	10,650.00	3,955.80	-140.69	387,440.21	789,101.45	32.062629	-103.533532
14,800.00	90.00	359.59	10,650.00	4,055.80	-141.41	387,540.21	789,100.73	32.062904	-103.533531
14,900.00	90.00	359.59	10,650.00	4,155.80	-142.12	387,640.21	789,100.01	32.063179	-103.533531
15,000.00	90.00	359.59	10,650.00	4,255.80	-142.84	387,740.21	789,099.30	32.063454	-103.533531
15,100.00	90.00	359.59	10,650.00	4,355.79	-143.56	387,840.20	789,098.58	32.063729	-103.533531
15,200.00	90.00	359.59	10,650.00	4,455.79	-144.27	387,940.20	789,097.86	32.064004	-103.533531
15,300.00	90.00	359.59	10,650.00	4,555.79	-144.99	388,040.20	789,097.15	32.064279	-103.533531

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Seawolf 12-1 Fed 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3367.30ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3367.30ft
Site:	Sec 12-T26S-R33E	North Reference:	Grid
Well:	Seawolf 12-1 Fed 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,400.00	90.00	359.59	10,650.00	4,655.79	-145.71	388,140.19	789,096.43	32.064554	-103.533531
15,500.00	90.00	359.59	10,650.00	4,755.78	-146.42	388,240.19	789,095.72	32.064828	-103.533531
15,600.00	90.00	359.59	10,650.00	4,855.78	-147.14	388,340.19	789,095.00	32.065103	-103.533531
15,644.00	90.00	359.59	10,650.00	4,899.78	-147.45	388,384.19	789,094.69	32.065224	-103.533531
Cross section @ 15644' MD, 0' FSL, 330' FWL									
15,700.00	90.00	359.59	10,650.00	4,955.78	-147.85	388,440.19	789,094.28	32.065378	-103.533531
15,800.00	90.00	359.59	10,650.00	5,055.77	-148.57	388,540.18	789,093.57	32.065653	-103.533531
15,900.00	90.00	359.59	10,650.00	5,155.77	-149.29	388,640.18	789,092.85	32.065928	-103.533531
16,000.00	90.00	359.59	10,650.00	5,255.77	-150.00	388,740.18	789,092.14	32.066203	-103.533531
16,100.00	90.00	359.59	10,650.00	5,355.77	-150.72	388,840.18	789,091.42	32.066478	-103.533530
16,200.00	90.00	359.59	10,650.00	5,455.76	-151.43	388,940.17	789,090.70	32.066753	-103.533530
16,300.00	90.00	359.59	10,650.00	5,555.76	-152.15	389,040.17	789,089.99	32.067027	-103.533530
16,400.00	90.00	359.59	10,650.00	5,655.76	-152.87	389,140.17	789,089.27	32.067302	-103.533530
16,500.00	90.00	359.59	10,650.00	5,755.76	-153.58	389,240.16	789,088.56	32.067577	-103.533530
16,600.00	90.00	359.59	10,650.00	5,855.75	-154.30	389,340.16	789,087.84	32.067852	-103.533530
16,700.00	90.00	359.59	10,650.00	5,955.75	-155.01	389,440.16	789,087.12	32.068127	-103.533530
16,800.00	90.00	359.59	10,650.00	6,055.75	-155.73	389,540.16	789,086.41	32.068402	-103.533530
16,900.00	90.00	359.59	10,650.00	6,155.75	-156.45	389,640.15	789,085.69	32.068677	-103.533530
17,000.00	90.00	359.59	10,650.00	6,255.74	-157.16	389,740.15	789,084.97	32.068952	-103.533530
17,100.00	90.00	359.59	10,650.00	6,355.74	-157.88	389,840.15	789,084.26	32.069226	-103.533530
17,200.00	90.00	359.59	10,650.00	6,455.74	-158.60	389,940.14	789,083.54	32.069501	-103.533530
17,300.00	90.00	359.59	10,650.00	6,555.74	-159.31	390,040.14	789,082.83	32.069776	-103.533529
17,400.00	90.00	359.59	10,650.00	6,655.73	-160.03	390,140.14	789,082.11	32.070051	-103.533529
17,500.00	90.00	359.59	10,650.00	6,755.73	-160.74	390,240.14	789,081.39	32.070326	-103.533529
17,600.00	90.00	359.59	10,650.00	6,855.73	-161.46	390,340.13	789,080.68	32.070601	-103.533529
17,700.00	90.00	359.59	10,650.00	6,955.73	-162.18	390,440.13	789,079.96	32.070876	-103.533529
17,800.00	90.00	359.59	10,650.00	7,055.72	-162.89	390,540.13	789,079.25	32.071151	-103.533529
17,900.00	90.00	359.59	10,650.00	7,155.72	-163.61	390,640.13	789,078.53	32.071425	-103.533529
18,000.00	90.00	359.59	10,650.00	7,255.72	-164.32	390,740.12	789,077.81	32.071700	-103.533529
18,100.00	90.00	359.59	10,650.00	7,355.72	-165.04	390,840.12	789,077.10	32.071975	-103.533529
18,200.00	90.00	359.59	10,650.00	7,455.71	-165.76	390,940.12	789,076.38	32.072250	-103.533529
18,300.00	90.00	359.59	10,650.00	7,555.71	-166.47	391,040.11	789,075.67	32.072525	-103.533529
18,400.00	90.00	359.59	10,650.00	7,655.71	-167.19	391,140.11	789,074.95	32.072800	-103.533529
18,500.00	90.00	359.59	10,650.00	7,755.71	-167.91	391,240.11	789,074.23	32.073075	-103.533528
18,600.00	90.00	359.59	10,650.00	7,855.70	-168.62	391,340.11	789,073.52	32.073350	-103.533528
18,700.00	90.00	359.59	10,650.00	7,955.70	-169.34	391,440.10	789,072.80	32.073625	-103.533528
18,800.00	90.00	359.59	10,650.00	8,055.70	-170.05	391,540.10	789,072.08	32.073899	-103.533528
18,900.00	90.00	359.59	10,650.00	8,155.70	-170.77	391,640.10	789,071.37	32.074174	-103.533528
19,000.00	90.00	359.59	10,650.00	8,255.69	-171.49	391,740.10	789,070.65	32.074449	-103.533528
19,100.00	90.00	359.59	10,650.00	8,355.69	-172.20	391,840.09	789,069.94	32.074724	-103.533528
19,200.00	90.00	359.59	10,650.00	8,455.69	-172.92	391,940.09	789,069.22	32.074999	-103.533528
19,300.00	90.00	359.59	10,650.00	8,555.69	-173.63	392,040.09	789,068.50	32.075274	-103.533528
19,400.00	90.00	359.59	10,650.00	8,655.68	-174.35	392,140.08	789,067.79	32.075549	-103.533528
19,500.00	90.00	359.59	10,650.00	8,755.68	-175.07	392,240.08	789,067.07	32.075824	-103.533528
19,600.00	90.00	359.59	10,650.00	8,855.68	-175.78	392,340.08	789,066.36	32.076098	-103.533528
19,700.00	90.00	359.59	10,650.00	8,955.68	-176.50	392,440.08	789,065.64	32.076373	-103.533528
19,800.00	90.00	359.59	10,650.00	9,055.67	-177.21	392,540.07	789,064.92	32.076648	-103.533527
19,900.00	90.00	359.59	10,650.00	9,155.67	-177.93	392,640.07	789,064.21	32.076923	-103.533527
20,000.00	90.00	359.59	10,650.00	9,255.67	-178.65	392,740.07	789,063.49	32.077198	-103.533527
20,100.00	90.00	359.59	10,650.00	9,355.66	-179.36	392,840.06	789,062.77	32.077473	-103.533527
20,200.00	90.00	359.59	10,650.00	9,455.66	-180.08	392,940.06	789,062.06	32.077748	-103.533527
20,300.00	90.00	359.59	10,650.00	9,555.66	-180.80	393,040.06	789,061.34	32.078023	-103.533527
20,400.00	90.00	359.59	10,650.00	9,655.66	-181.51	393,140.06	789,060.63	32.078297	-103.533527
20,500.00	90.00	359.59	10,650.00	9,755.65	-182.23	393,240.05	789,059.91	32.078572	-103.533527

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Seawolf 12-1 Fed 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3367.30ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3367.30ft
Site:	Sec 12-T26S-R33E	North Reference:	Grid
Well:	Seawolf 12-1 Fed 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,600.00	90.00	359.59	10,650.00	9,855.65	-182.94	393,340.05	789,059.19	32.078847	-103.533527
20,603.95	90.00	359.59	10,650.00	9,859.60	-182.97	393,344.00	789,059.17	32.078858	-103.533527
PBHL & LTP @ 20604' MD, 320' FNL, 330' FWL									
20,603.96	90.00	359.59	10,650.00	9,859.61	-182.97	393,344.01	789,059.17	32.078858	-103.533527

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Seawolf 12-1 Fe	0.00	0.00	0.00	10,159.60	-185.12	393,644.00	789,057.02	32.079683	-103.533527
- plan misses target center by 10161.29ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
10,087.00	10,077.00	-330.00	-110.00	KOP @ 10087' MD, 50' FSL, 330' FWL	
10,328.00	10,310.96	-280.08	-110.36	FTP @ 10328' MD, 100' FSL, 330' FWL	
15,644.00	10,650.00	4,899.78	-147.45	Cross section @ 15644' MD, 0' FSL, 330' FWL	
20,603.95	10,650.00	9,859.60	-182.97	PBHL & LTP @ 20604' MD, 320' FNL, 330' FWL	

WCDSC Permian NM

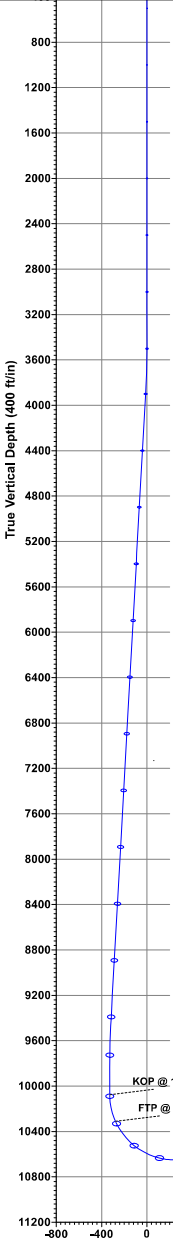
WELL DETAILS: Seawolf 12-1 Fed 10H

RKB @ 3367.30ft
3342.30
Northing 383484.42 Easting 789242.14 Latitude 32.051753 Longitude -103.533172

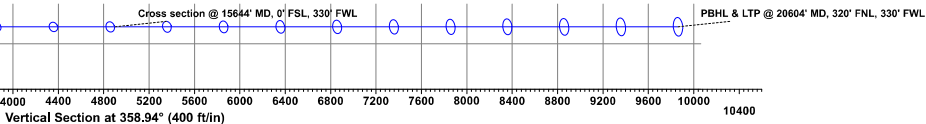
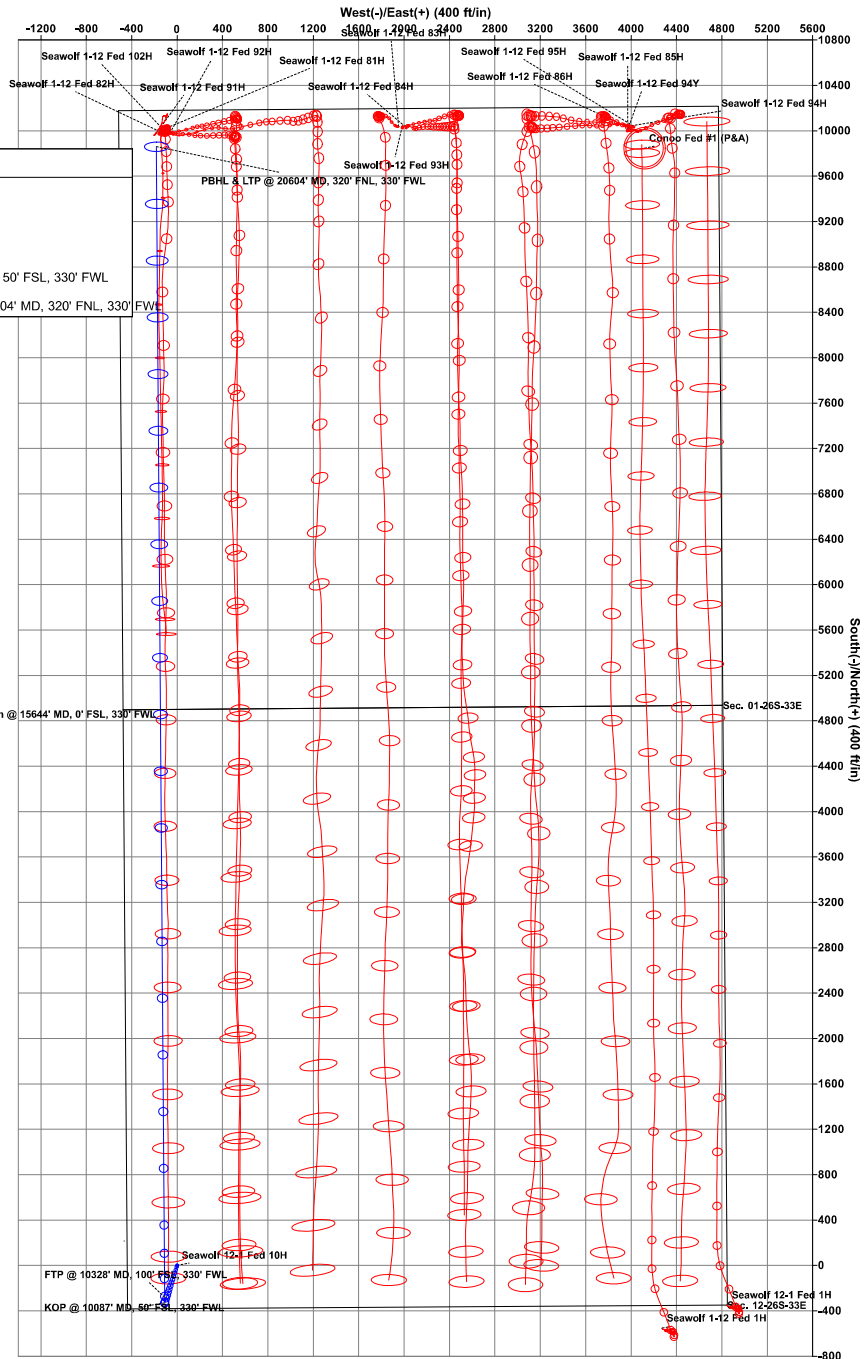
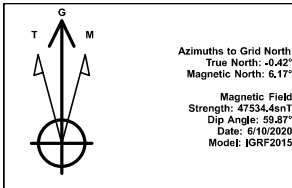
SECTION DETAILS

Permit Plan 1

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	V/Sect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	
	3834.70	3.35	198.43	3834.51	-9.27	-3.09	1.00	-9.21	
	9513.87	3.35	198.43	9504.00	-323.82	-107.94	0.00	-321.76	
5	9737.00	0.00	0.00	9727.00	-330.00	-110.00	1.50	-327.90	
6	10087.04	0.00	0.00	10077.04	-330.00	-110.00	0.00	-327.90	KOP @ 10087' MD, 50' FSL, 330' FWL
7	10987.05	90.00	359.59	10650.00	242.94	-114.10	10.00	245.02	
8	20603.96	90.00	359.59	10650.00	9859.61	-182.97	0.00	9861.31	PBHL & LTP @ 20604' MD, 320' FNL, 330' FWL



devon



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 nipped 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

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM114988
LOCATION:	Section 12, T.26 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Seawolf 12-1 Fed 10H
SURFACE HOLE FOOTAGE:	370'/S & 440'/W
BOTTOM HOLE FOOTAGE:	320'/N & 330'/W

WELL NAME & NO.:	Seawolf 12-1 Fed 12H
SURFACE HOLE FOOTAGE:	370'/S & 470'/W
BOTTOM HOLE FOOTAGE:	370'/N & 1125'/W

WELL NAME & NO.:	Seawolf 12-1 Fed 20H
SURFACE HOLE FOOTAGE:	370'/S & 410'/W
BOTTOM HOLE FOOTAGE:	320'/N & 770'/W

COA

H2S	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Potash	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Secretary	<input type="checkbox"/> R-111-P
Cave/Karst Potential	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> High
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Other
Wellhead	<input type="checkbox"/> Conventional	<input checked="" type="checkbox"/> Multibowl	<input type="checkbox"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1108 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 **5232 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement might be required.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity 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 integrity 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.



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

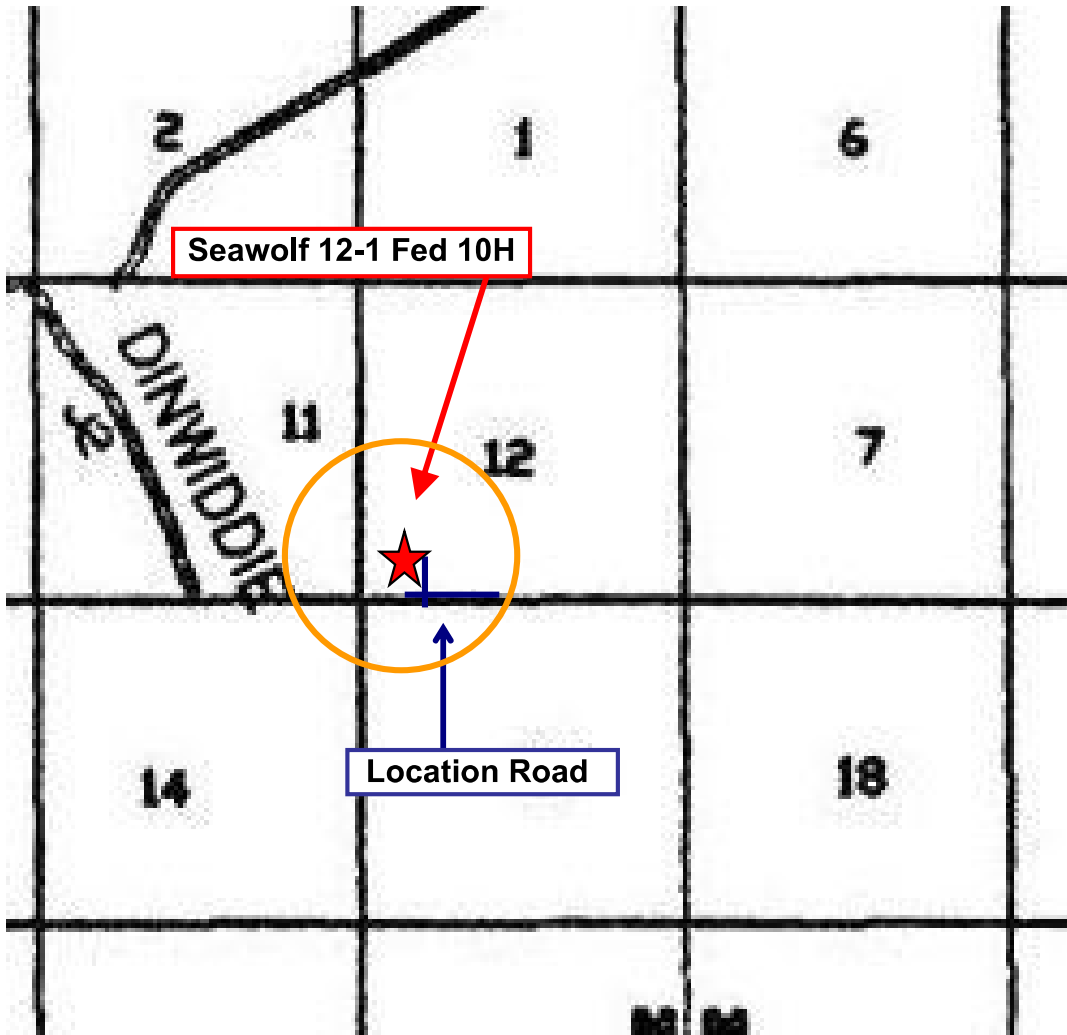
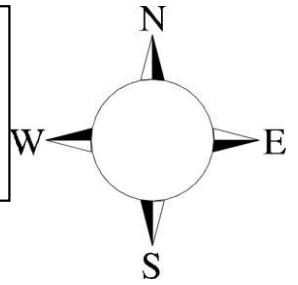
Seawolf 12-1 Fed 10H

**Sec-12 T-26S R-33E
380 FSL & 440' FWL
LAT. = 32.051753' N (NAD83)
LONG = 103.533172' W**

Lea County NM

Seawolf 12-1 Fed 10H

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



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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

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

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

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

7. Well testing:

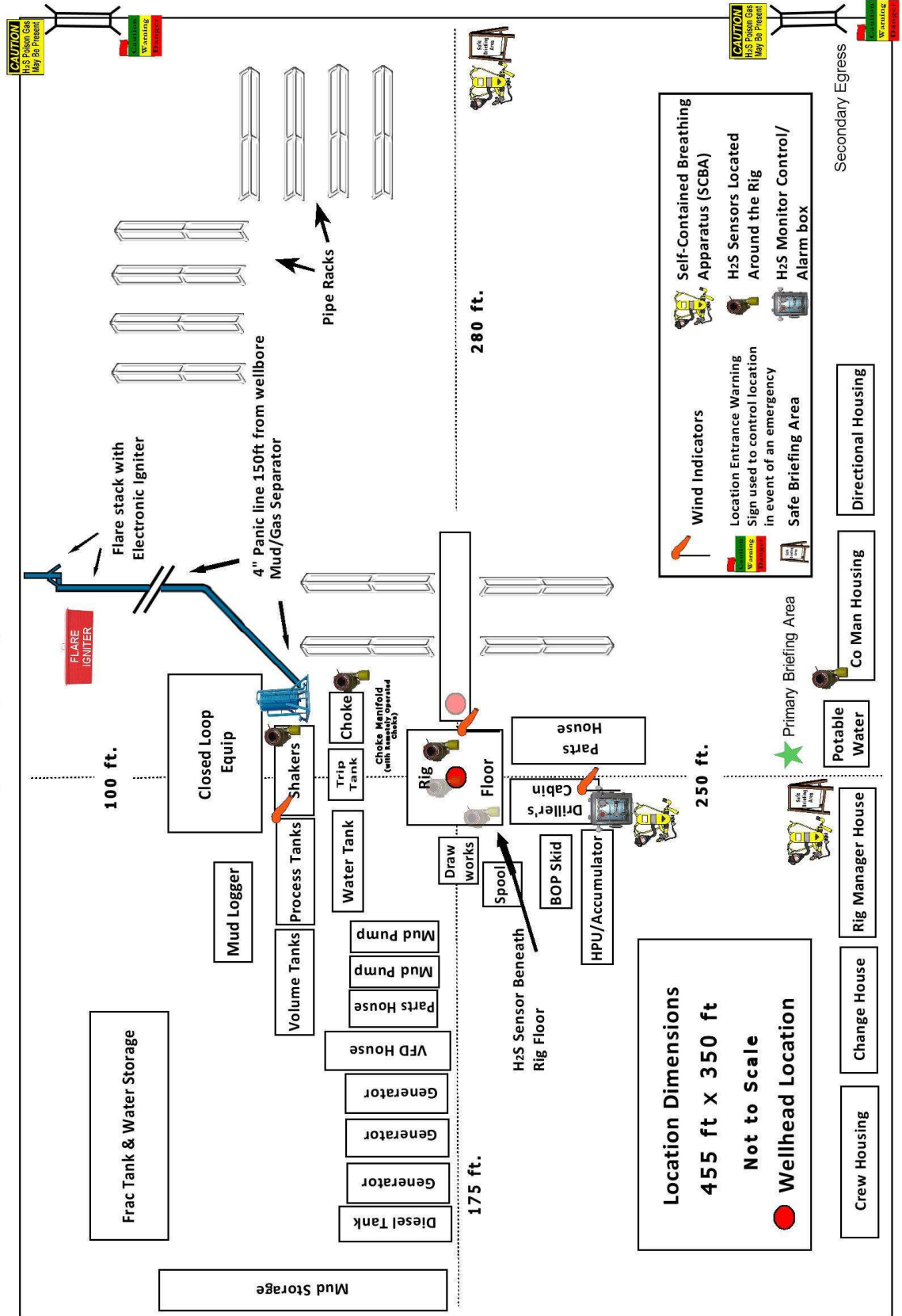
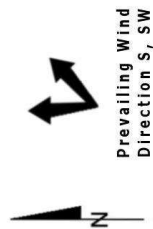
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

<u>Devon Energy Corp. Company Call List</u>		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
<u>Give GPS position:</u>	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1290 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

OCB - HOBBS
09/14/2020
RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47753	Pool Code 97741	Pool Name WC-025 G-09 S253335K;LWR BONE SPRING
Property Code 315247	Property Name SEAWOLF 12-1 FED	Well Number 10H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3342.3'

Surface Location

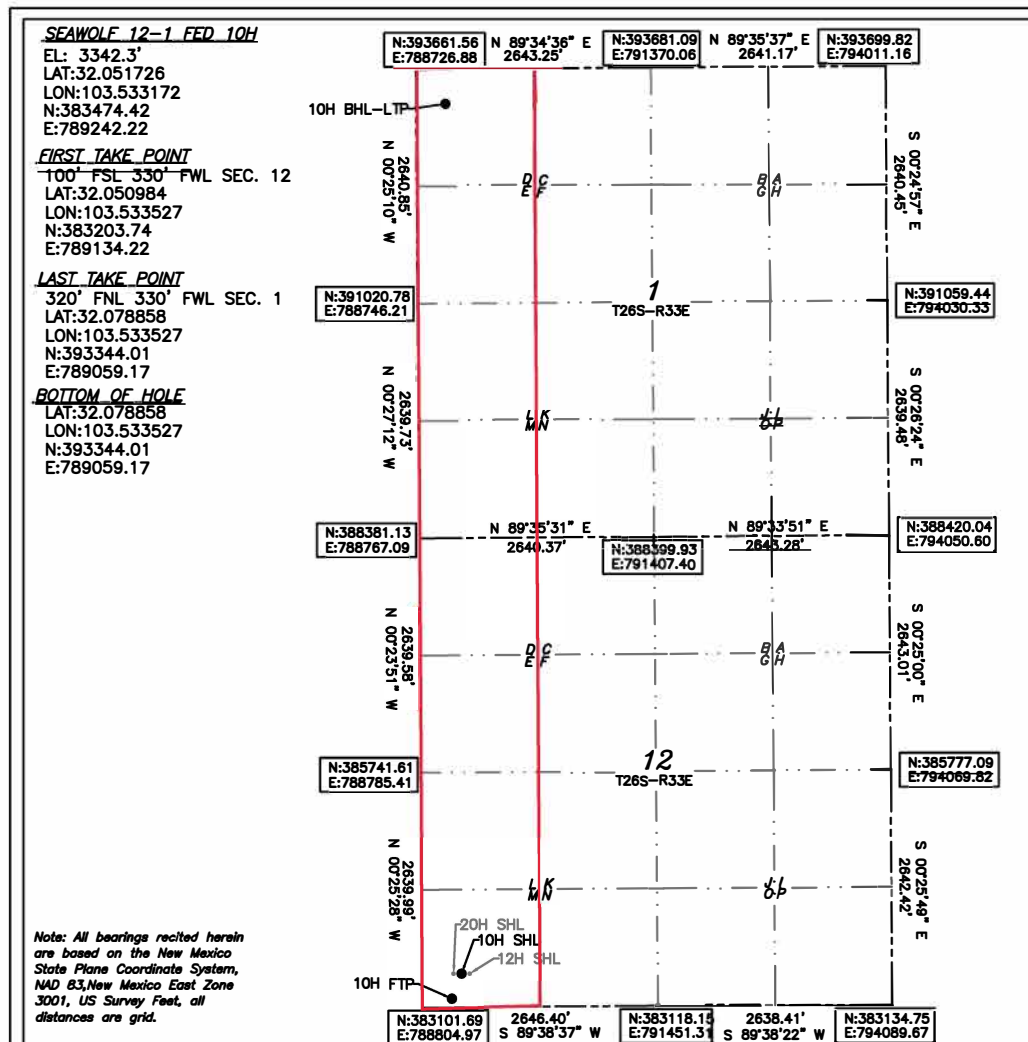
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	26-S	33-E		370	SOUTH	440	WEST	LEA

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
D	1	26-S	33-E		320	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

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

Rebecca Deal 6/18/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

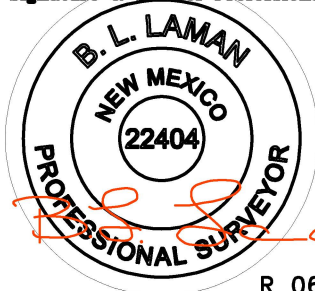
SURVEYOR CERTIFICATION

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.

05/22/2020

Date of Survey

Signature & Seal of Professional Surveyor



R 06/16/20

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☒ As Drilled ☐

API #
30-025-47753

Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: SEAWOLF 12-1 FED	Well Number 10H
---	---	---------------------------

Kick Off Point (KOP)

UL	Section 12	Township 26S	Range 33E	Lot	Feet 50	From N/S FSL	Feet 330	From E/W FWL	County LEA
Latitude 32.050848					Longitude -103.533535				NAD 83

First Take Point (FTP)

UL M	Section 12	Township 26-S	Range 33-E	Lot	Feet 100	From N/S SOUTH	Feet 330	From E/W WEST	County LEA
Latitude 32.050984					Longitude 103.533527				NAD 83

Last Take Point (LTP)

UL D	Section 1	Township 26-S	Range 33-E	Lot	Feet 320	From N/S NORTH	Feet 330	From E/W WEST	County LEA
Latitude 32.078858					Longitude 103.533527				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☒

Is this well an infill well? ☐

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

API #

Operator Name:	Property Name:	Well Number
----------------	----------------	-------------

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

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

Submit Original
to Appropriate
District Office

OCD - HOBBS
09/14/2020
RECEIVED

GAS CAPTURE PLAN

☒ Original
☐ Amended
Reason for Amendment: _____

Operator & OGRID No.: Devon Production Co., L.P. (6137)
Date: 6/18/2020

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

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Well(s)/Production Facility – Seawolf 12 CTB 1

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

Well Name	API	Well Location (STR)	Footages	Expected MCF/D	Flared or Vented	Comments
Seawolf 12-1 Fed 10H	30-025-47753	Sec 12-26S-33E	370 FSL & 440' FWL			Will connect to Seawolf 12 CTB 1
Seawolf 12-1 Fed 20H		Sec 12-26S-33E	370 FSL & 410' FWL			Will connect to Seawolf 12 CTB 1
Seawolf 12-1 Fed 12H		Sec 12-26S-33E	370 FSL & 470' FWL			Will connect to Seawolf 12 CTB 1

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 Enterprise South Eddy and will be connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. Devon provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Devon and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise Processing Plant located in Sec. 36, TWN 24S, RNG 30E, Eddy 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 Enterprise's system at that time. Based on current information, it is Devon's belief the system can take this gas upon completion of the well(s).

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

Alternatives to Reduce Flaring

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

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