Form 3160-3 (June 2015)		FORM APPRO OMB No. 1004	-0137
UNITED STATES		Expires: January 2	31, 2018
DEPARTMENT OF THE INTE BUREAU OF LAND MANAGE		5. Lease Serial No.	
APPLICATION FOR PERMIT TO DRILL		6. If Indian, Allotee or Trib	e Name
		,	
		7. If Unit or CA Agreemen	t Name and No
1a. Type of work: DRILL REENT	ER		, runio una ruo.
1b. Type of Well: Oil Well Gas Well Other		8. Lease Name and Well N	
1c. Type of Completion: Hydraulic Fracturing Single 2	Zone Multiple Zone	6. Lease Maine and Wen IV	0.
2. Name of Operator		9. API Well No. 30-015-	55453
3a. Address 3b. 1	Phone No. (include area code)	10. Field and Pool, or Expl	oratory
4. Location of Well (<i>Report location clearly and in accordance with a</i>	ny State requirements.*)	11. Sec., T. R. M. or Blk. a	nd Survey or Area
At surface			
At proposed prod. zone			
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	13. State
15. Distance from proposed* 16. To be a construction to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	No of acres in lease 17. Spacin	ng Unit dedicated to this wel	1
18. Distance from proposed location* 19. to nearest well, drilling, completed, applied for, on this lease, ft. 19.	Proposed Depth 20, BLM/	BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22.	Approximate date work will start*	23. Estimated duration	
24	. Attachments		
The following, completed in accordance with the requirements of Onsl (as applicable)	nore Oil and Gas Order No. 1, and the H	Iydraulic Fracturing rule per	43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operation Item 20 above).	s unless covered by an existing	ng bond on file (see
3. A Surface Use Plan (if the location is on National Forest System Lar SUPO must be filed with the appropriate Forest Service Office).	1. 5. Operator certification.6. Such other site specific infor BLM.	mation and/or plans as may be	e requested by the
25. Signature	Name (Printed/Typed)	Date	
Title	1		
Approved by (Signature)	Name (Printed/Typed)	Date	
Title	Office		
Application approval does not warrant or certify that the applicant hold applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Is legal or equitable title to those rights	in the subject lease which w	ould entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i of the United States any false, fictitious or fraudulent statements or rep			artment or agency

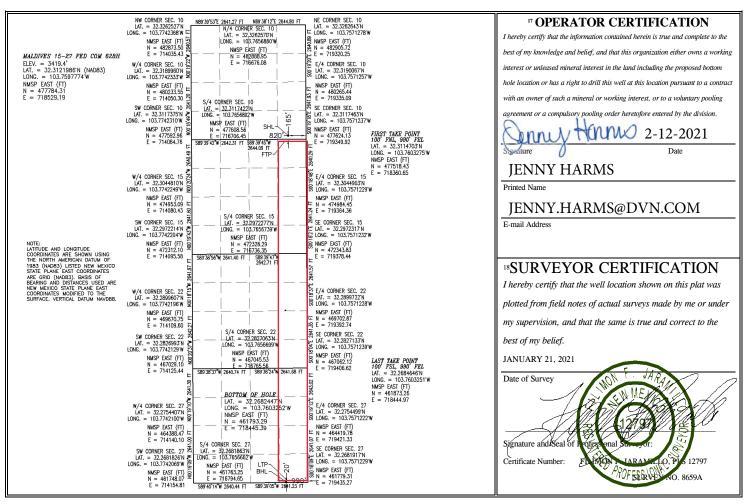


(Continued on page 2)

.

District IState of New MexicoPhone: (575) 393-6161 Fax: (575) 393-0720State of New MexicoDistrict IIEnergy, Minerals & Natural Resources DepartmentPhone: (575) 748-1283 Fax: (575) 748-9720OIL CONSERVATION DIVISIONDistrict III1000 Rio Brazos Road, Aztee, NM 87410Phone: (505) 334-6178 Fax: (505) 334-61701220 South St. Francis Dr.Phone: (505) 476-3460 Fax: (505) 476-3462Santa Fe, NM 87505									*	Subr		Form C-102 Revised August 1, 2011 copy to appropriate District Office ENDED REPORT	
WELL LOCATION AND ACREAGE DEDICATION PLAT													
	API Numbe	r			² Pool								
30-015-5					[9	6991]			JNES;WOLF	CAMP			
⁴ Property	Code						Property N				6	Well Number	
325991								7 FED COM			628H		
⁷ OGRID							Operator 1			⁹ Elevation			
6137				DEVO	ON EN	NERGY PR	ODUC	TION COMPA	NY, L.P.			3419.4	
						10 S	urface	e Location					
UL or lot no.	Section	Townsh	lip 🗌	Range	Lot I	dn Feet fro	om the	North/South line	Feet from the	East/We	est line	County	
Р	10	23 S	5 1	31 E		16	5	SOUTH	820	EAS	ST	EDDY	
		•		пB	ottom	Hole Loc	ation	If Different Fr	om Surface				
UL or lot no.	Section	Townsh	lip 🗌	Range	ange Lot Idn Feet from the North/South line				Feet from the	East/We	est line	County	
Р	27	23 S	5 .	31 E		20	0	SOUTH	990	EAS	ST	EDDY	
¹² Dedicated Acre	s ¹³ Joint	or Infill	¹⁴ Con	isolidation	n Code				¹⁵ Order No.			·	
480													

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.



Received by OCD: 9/10/2024 11:55:19 AM

Page	3	of	` 51
------	---	----	-------------

Intent X As Drilled		
API #		
Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	MALDIVES 15-27 FED COM	628H

Kick Off Point (KOP)

UL	Section 15	Township 23S	Range 31E	Lot	Feet 43 FNL	From N/S	Feet 990 FEL	From E/W	County EDDY
Latitu 32.3	^{de} 115506	51			Longitude -103.760	33566			NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	15	23S	31E		100	NORTH	990	EAST	EDDY
Latitu	^{de} 32.311	4703			Longitude 103	8.7603275			NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	27	23S	31E		100	SOUTH	990	EAST	EDDY
Latitu		684646			Longitud	103.760	3251		NAD 83

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

Is this well an infill well?

no

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Received h	v OCD.	9/10/2024	11:55:19 AM
Λειεινε α υ	V U U U.	7/10/4044	11.33.17 /1/1

	E	Sta nergy, Minerals a	te of New Me and Natural Res		ent	Subi Via	nit Electronically E-permitting
		1220 \$	onservation D South St. Fran 1ta Fe, NM 87	cis Dr.			
	Ν	ATURAL G	AS MANA	GEMENT P	LAN		
This Natural Gas Mana	gement Plan m	ust be submitted w	vith each Applica	tion for Permit to I	Drill (Al	PD) for a new o	r recompleted well
			1 – Plan D ffective May 25.				
I. Operator: DEVONI	ENERGY PRODUC	CTION COMPANY, LF	OGRID:	6137			15 / 2024
II. Type: 🛛 Original	□ Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D	(6)(b) N	MAC 🗆 Other.	
If Other, please describ	e:						
III. Well(s): Provide the recompleted from a					wells pr	roposed to be dr	illed or proposed t
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D P	Anticipated Produced Water BBL/D
See attachment							
IV. Central Delivery I	Point Name:	See attachment	I	1	1	[See 19.15.2	27.9(D)(1) NMAC
V. Anticipated Schedu proposed to be recomp	ile: Provide the	e following informa			vell or s		
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date
See attachment							
VI. Separation Equip VII. Operational Prac Subsection A through F	ctices: 🛛 Attac	ch a complete desc		-			
VIII. Best Manageme during active and plann	nt Practices:	X Attach a comple	ete description of	f Operator's best r	nanager	nent practices to	o minimize ventir

.

Released to Imaging: 9/26/2024 1:59:42 PM

NATURAL GAS MANAGEMENT PLAN

Section 1 - Plan Description

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR & FOOTAGE	Anticipated Gas/Oil/Water	Central Delivery Point Name:
MALDIVES 15-27 FED COM 338H	n/a	10-23S-31E, 165 FSL & 760 FEL	(+/-) 2839mcfd/(+/-)1130bopd/(+/-)6074bwpd	GALAPAGOS 14 CTB 1
MALDIVES 15-27 FED COM 336H	n/a	15-23S-31E, 400 FNL & 1645 FWL	(+/-) 2839mcfd/(+/-)1130bopd/(+/-)6074bwpd	MALDIVES 15 CTB 2
MALDIVES 15-27 FED COM 337H	n/a	10-23S-31E, 325 FSL & 2487 FEL	(+/-) 2839mcfd/(+/-)1130bopd/(+/-)6074bwpd	MALDIVES 15 CTB 2
MALDIVES 15-27 FED COM 718H	n/a	10-23S-31E, 165 FSL & 790 FEL	(+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd	GALAPAGOS 14 CTB 1
MALDIVES 15-27 FED COM 716H	n/a	15-23S-31E, 400 FNL & 1615 FWL	(+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd	MALDIVES 15 CTB 2
MALDIVES 15-27 FED COM 717H	n/a	10-23S-31E, 325 FSL & 2517 FEL	(+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd	MALDIVES 15 CTB 2
MALDIVES 15-27 FED COM 628H	n/a	10-23S-31E, 165 FSL & 820 FEL	(+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd	GALAPAGOS 14 CTB 1
MALDIVES 15-27 FED COM 626H	n/a	15-23S-31E, 400 FNL & 1585 FWL	(+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd	MALDIVES 15 CTB 2
MALDIVES 15-27 FED COM 627H	n/a	10-23S-31E, 325 FSL & 2547 FEL	(+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd	MALDIVES 15 CTB 2

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

				Completion		
				Commencement		
Well Name	API	Spud Date	TD Reached Date	Date	Initial Flow back Date	First Production Date
MALDIVES 15-27 FED COM 338H	n/a	8/20/2025	9/19/2025	1/17/2026	1/17/2026	1/17/2026
MALDIVES 15-27 FED COM 336H	n/a	10/3/2025	11/2/2025	3/2/2026	3/2/2026	3/2/2026
MALDIVES 15-27 FED COM 337H	n/a	10/22/2025	11/21/2025	3/21/2026	3/21/2026	3/21/2026
MALDIVES 15-27 FED COM 718H	n/a	1/28/2026	2/27/2026	6/27/2026	6/27/2026	6/27/2026
MALDIVES 15-27 FED COM 716H	n/a	1/4/2026	2/3/2026	6/3/2026	6/3/2026	6/3/2026
MALDIVES 15-27 FED COM 717H	n/a	9/18/2025	10/18/2025	2/15/2026	2/15/2026	2/15/2026
MALDIVES 15-27 FED COM 628H	n/a	1/9/2026	2/8/2026	6/8/2026	6/8/2026	6/8/2026
MALDIVES 15-27 FED COM 626H	n/a	11/4/2025	12/4/2025	4/3/2026	4/3/2026	4/3/2026
MALDIVES 15-27 FED COM 627H	n/a	11/4/2025	12/4/2025	4/3/2026	4/3/2026	4/3/2026

* Dates subject to change

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

I Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \square Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

D Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (t) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Jeffrey Walla Title:
Title: Surface Land & Regulatory Manager
E-mail Address: jeff.walla@dvn.com
Date:
Phone: (405) 552-8154
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

.

1. Geologic Formations

TVD of target	11580	Pilot hole depth	N/A
MD at TD:	27161	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	600		
Salt	950		
Base of Salt	4120		
Bell Canyon	4360		
Cherry Canyon	5250		
Brushy Canyon	6525		
1st Bone Spring Lime	8230		
1st Bone Spring Sand	9275		
Bone Spring 2nd	9885		
3rd Bone Spring Lime	10345		
Bone Spring 3rd	11045		
Wolfcamp	11505		

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

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	48.0	H40	STC	0.0	625 MD	0	625 TVD
12 1/4	10 3/4	45.5	HCL80	BTC SCC	0.0	4335 MD	0	4305 TVD
9 7/8	8 5/8	32	P110	TLW	0	11070 MD	0	11070 TVD
7 7/8	5 1/2	17.0	P110	BTC	0	27161 MD	0	11580 TVD

2. Casing Program (Primary Design)

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

• The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

3. Cementing Program	Primary Des	lgn)			
Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	491	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	274	Surf	9	3.27	Lead: Class C Cement + additives
Int	101	500' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1	296	Surf	9	3.27	Lead: Class C Cement + additives
Int I	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	274	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	101	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	644	0	9	3.27	Lead: Class H /C + additives
FIGUETION	2132	11048	13.2	1.44	Tail: Class H / C + additives

3. Cementing Program (Primary Design)

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 and Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		√	Tested to:				
			Annı	ular	Х	50% of rated working pressure				
Int	13-5/8"	5M	Blind		Х					
Int	13-3/8	5111	Pipe I			5M				
			Double	e Ram	Х	5111				
			Other*							
	13-5/8"		Annular	r (5M)	Х	100% of rated working pressure				
Int 1		5M	Blind	Ram	Х					
1111 1		15-5/6 5	13-3/6 5IVI	13-3/8 JW	15-5/8 514	13-5/8 514	Pipe I	Ram		5M
							Double	e Ram	Х	JIVI
			Other*							
			Annular	r (5M)	Х	100% of rated working pressure				
Production	13-5/8"	5M	Blind	Ram	Х					
Troduction	13-3/8	5111	Pipe I			5M				
			Double	e Ram	Х	5141				
			Other*							
N A variance is requested fo	r the use of a	diverter on	the surface c	casing. See a	ttached for	schematic.				
N A variance is requested to	A variance is requested to run a 5 M annular on a 10M system									

4. Pressure Control Equipment (Four String Design)

5. Mud Program (Four String Design)

Section	Туре	Weight (ppg)
Surface	WBM	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Intermediate 1	WBM	8.5-9
Production	OBM	10-10.5

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 monitor the loss of gain of fluid.	I v I/I asoli/ v Isual Wollitoning

6. Logging and Testing Procedures

Logging, Co	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	Completion Rpeort 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	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6323
Abnormal temperature	No

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

Hydrogren S	Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations						
greater than	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.						
Ν	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 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 pa.
- 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. A 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



Well Name: MALDIVES 15-27 FED COM

Well Type: OIL WELL

Well Number: 628H Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Sec	tion 1 - Geologic	Formatio	ons				
Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14049312	UNKNOWN	3419	0	0	OTHER : SURFACE	NONE	N
14049313	RUSTLER	2819	600	600	SANDSTONE	NONE	N
14049314	SALADO	2469	950	950	SALT	NONE	N
14049315	BASE OF SALT	-701	4120	4120	ANHYDRITE	NATURAL GAS, OIL	N
14049316	BELL CANYON	-941	4360	4360	SANDSTONE	NATURAL GAS, OIL	N
14049317	CHERRY CANYON	-1831	5250	5250	SANDSTONE	NATURAL GAS, OIL	N
14049318	BRUSHY CANYON	-3106	6525	6525	SANDSTONE	NATURAL GAS, OIL	N
14049325	BONE SPRING LIME	-4811	8230	8230	LIMESTONE	NATURAL GAS, OIL	N
14049319	BONE SPRING	-5856	9275	9275	SANDSTONE	NATURAL GAS, OIL	N
14049321	BONE SPRING 2ND	-6466	9885	9885	SANDSTONE	NATURAL GAS, OIL	N
14049326	BONE SPRING LIME	-6926	10345	10345	LIMESTONE	NATURAL GAS, OIL	N
14049327	BONE SPRING 3RD	-7626	11045	11045	SANDSTONE	NATURAL GAS, OIL	N
14049323	WOLFCAMP	-8086	11505	11505	SHALE	NATURAL GAS, OIL	Y
14049324	STRAWN	-9811	13230	13230	LIMESTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention



Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

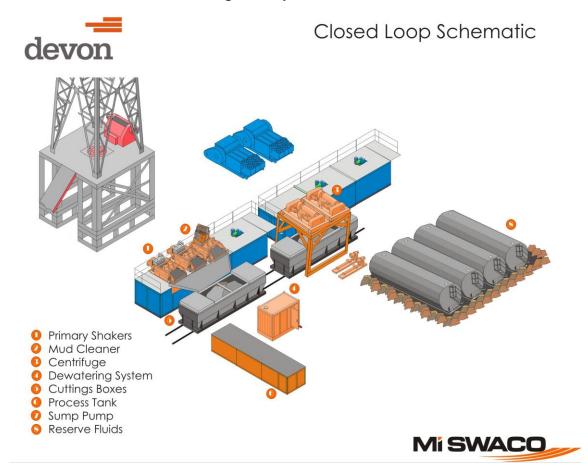
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependent on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

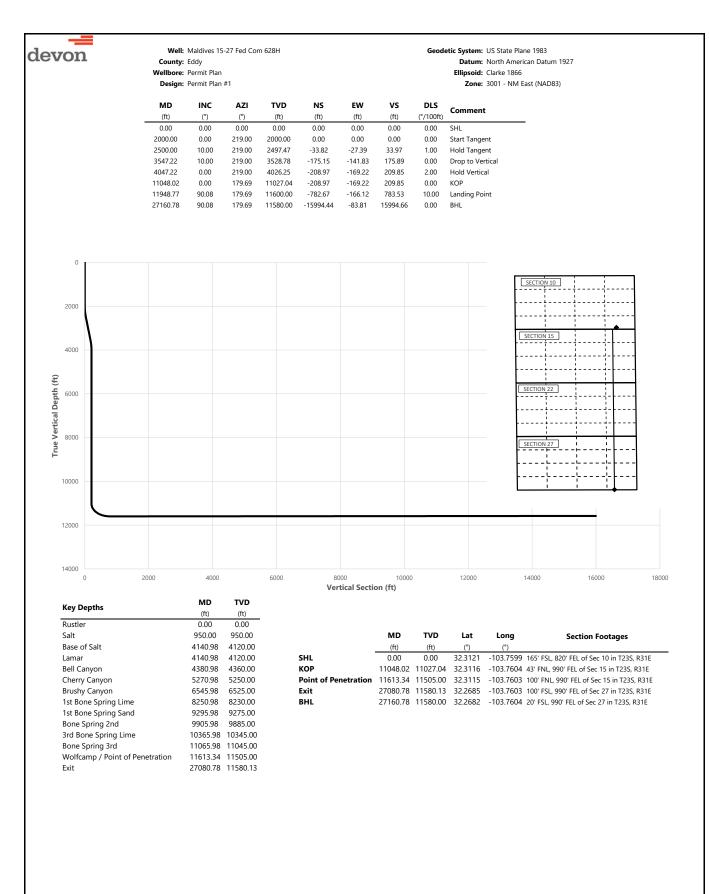
1. SUMMARY OF Variance:

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.



. —			Malar -	275.10	- (2011				Condition Sustained U.S. State Direct 1002
devon				5-27 Fed Con	n 628H				Geodetic System: US State Plane 1983
		County: Wellbore:	Eddy Permit Plar						Datum: North American Datum 1927
			Permit Plar Permit Plar						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
		- corgil.	. construidi						
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
	100.00	0.00	219.00	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	219.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	219.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	219.00	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	219.00	500.00	0.00	0.00	0.00	0.00	Rustler,
	600.00 700.00	0.00 0.00	219.00 219.00	600.00 700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Nustrer,
	800.00	0.00	219.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	219.00	900.00	0.00	0.00	0.00	0.00	
	950.00	0.00	219.00	950.00	0.00	0.00	0.00	0.00	Salt
	1000.00	0.00	219.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	219.00	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00	219.00	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	219.00	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	219.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	219.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	219.00	1600.00	0.00	0.00	0.00	0.00	
	1700.00	0.00	219.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	219.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	219.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	219.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	219.00	2099.98	-1.36	-1.10	1.36	2.00	
	2200.00	4.00	219.00	2199.84	-5.42	-4.39	5.45	2.00	
	2300.00	6.00	219.00	2299.45	-12.20	-9.88 1755	12.25	2.00	
	2400.00 2500.00	8.00 10.00	219.00 219.00	2398.70 2497.47	-21.67 -33.82	-17.55 -27.39	21.76 33.97	2.00 1.00	Hold Tangent
	2600.00	10.00	219.00	2595.95	-33.82	-27.59	47.52	0.00	nora rangent
	2700.00	10.00	219.00	2595.95 2694.43	-60.81	-30.32	61.07	0.00	
	2800.00	10.00	219.00	2792.91	-74.31	-60.17	74.62	0.00	
	2900.00	10.00	219.00	2891.39	-87.80	-71.10	88.17	0.00	
	3000.00	10.00	219.00	2989.87	-101.30	-82.03	101.73	0.00	
	3100.00	10.00	219.00	3088.35	-114.79	-92.96	115.28	0.00	
	3200.00	10.00	219.00	3186.83	-128.29	-103.89	128.83	0.00	
	3300.00	10.00	219.00	3285.31	-141.78	-114.81	142.38	0.00	
	3400.00	10.00	219.00	3383.79	-155.28	-125.74	155.94	0.00	
	3500.00	10.00	219.00	3482.27	-168.77	-136.67	169.49	0.00	
	3547.22	10.00	219.00	3528.78	-175.15	-141.83	175.89	0.00	Drop to Vertical
	3600.00	8.94	219.00	3580.84	-181.90	-147.30	182.67	2.00	
	3700.00	6.94	219.00	3679.87	-192.64	-155.99	193.45	2.00	
	3800.00	4.94	219.00	3779.33	-200.68	-162.51	201.53	2.00	
	3900.00 4000.00	2.94 0.94	219.00 219.00	3879.09 3979.02	-206.03 -208.67	-166.84 -168.98	206.90 209.55	2.00 2.00	
	4000.00	0.94	219.00	4026.25	-208.67	-168.98	209.55 209.85	2.00	Hold Vertical
	4047.22	0.00	179.69	4028.23	-208.97	-169.22	209.85	0.00	Hore Versien
	4140.98	0.00	179.69	4079.02	-208.97	-169.22	209.85	0.00	Base of Salt, Lamar
	4200.00	0.00	179.69	4179.02	-208.97	-169.22	209.85	0.00	
	4300.00	0.00	179.69	4279.02	-208.97	-169.22	209.85	0.00	
	4380.98	0.00	179.69	4360.00	-208.97	-169.22	209.85	0.00	Bell Canyon
	4400.00	0.00	179.69	4379.02	-208.97	-169.22	209.85	0.00	
	4500.00	0.00	179.69	4479.02	-208.97	-169.22	209.85	0.00	
	4600.00	0.00	179.69	4579.02	-208.97	-169.22	209.85	0.00	
	4700.00	0.00	179.69	4679.02	-208.97	-169.22	209.85	0.00	
	4800.00	0.00	179.69	4779.02	-208.97	-169.22	209.85	0.00	
	4900.00	0.00	179.69	4879.02	-208.97	-169.22	209.85	0.00	
	5000.00	0.00	179.69	4979.02	-208.97	-169.22	209.85	0.00	
	5100.00	0.00	179.69	5079.02	-208.97	-169.22	209.85	0.00	
	5200.00	0.00	179.69	5179.02 5250.00	-208.97	-169.22 -169.22	209.85	0.00	Charpy Convon
	5270.98 5300.00	0.00 0.00	179.69 179.69	5250.00 5279.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	Cherry Canyon
	5400.00	0.00	179.69	5379.02	-208.97	-169.22	209.85	0.00	
	5500.00	0.00	179.69	5479.02 5479.02	-208.97	-169.22	209.85	0.00	
	5600.00	0.00	179.69	5579.02	-208.97	-169.22	209.85	0.00	
	5700.00	0.00	179.69	5679.02	-208.97	-169.22	209.85	0.00	
	5800.00	0.00	179.69	5779.02	-208.97	-169.22	209.85	0.00	
	5900.00	0.00	179.69	5879.02	-208.97	-169.22	209.85	0.00	
	6000.00	0.00	179.69	5979.02	-208.97	-169.22	209.85	0.00	
	6100.00	0.00	179.69	6079.02	-208.97	-169.22	209.85	0.00	
	6200.00	0.00	179.69	6179.02	-208.97	-169.22	209.85	0.00	
	6300.00	0.00	179.69	6279.02	-208.97	-169.22	209.85	0.00	

.

devon		Well:	Maldives 1	5-27 Fed Con	n 628H				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
			Permit Pla						Ellipsoid: Clarke 1866
		Design:	Permit Pla	n #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	a
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
-	6400.00	0.00	179.69	6379.02	-208.97	-169.22	209.85	0.00	
	6500.00	0.00	179.69	6479.02	-208.97	-169.22	209.85	0.00	
	6545.98	0.00 0.00	179.69	6525.00 6579.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	Brushy Canyon
	6600.00 6700.00	0.00	179.69 179.69	6679.02	-208.97	-169.22	209.85	0.00	
	6800.00	0.00	179.69	6779.02	-208.97	-169.22	209.85	0.00	
	6900.00	0.00	179.69	6879.02	-208.97	-169.22	209.85	0.00	
	7000.00	0.00	179.69	6979.02	-208.97	-169.22	209.85	0.00	
	7100.00	0.00	179.69 179.69	7079.02	-208.97	-169.22	209.85	0.00	
	7200.00 7300.00	0.00 0.00	179.69	7179.02 7279.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	
	7400.00	0.00	179.69	7379.02	-208.97	-169.22	209.85	0.00	
	7500.00	0.00	179.69	7479.02	-208.97	-169.22	209.85	0.00	
	7600.00	0.00	179.69	7579.02	-208.97	-169.22	209.85	0.00	
	7700.00	0.00	179.69	7679.02	-208.97	-169.22	209.85	0.00	
	7800.00 7900.00	0.00 0.00	179.69 179.69	7779.02 7879.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	
	8000.00	0.00	179.69	7979.02	-208.97	-169.22	209.85	0.00	
	8100.00	0.00	179.69	8079.02	-208.97	-169.22	209.85	0.00	
	8200.00	0.00	179.69	8179.02	-208.97	-169.22	209.85	0.00	
	8250.98	0.00	179.69	8230.00	-208.97	-169.22	209.85	0.00	1st Bone Spring Lime
	8300.00 8400.00	0.00 0.00	179.69 179.69	8279.02 8379.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	
	8500.00	0.00	179.69	8479.02	-208.97	-169.22	209.85	0.00	
	8600.00	0.00	179.69	8579.02	-208.97	-169.22	209.85	0.00	
	8700.00	0.00	179.69	8679.02	-208.97	-169.22	209.85	0.00	
	8800.00	0.00	179.69	8779.02	-208.97	-169.22	209.85	0.00	
	8900.00	0.00	179.69	8879.02	-208.97 -208.97	-169.22 -169.22	209.85	0.00	
	9000.00 9100.00	0.00 0.00	179.69 179.69	8979.02 9079.02	-208.97	-169.22	209.85 209.85	0.00 0.00	
	9200.00	0.00	179.69	9179.02	-208.97	-169.22	209.85	0.00	
	9295.98	0.00	179.69	9275.00	-208.97	-169.22	209.85	0.00	1st Bone Spring Sand
	9300.00	0.00	179.69	9279.02	-208.97	-169.22	209.85	0.00	
	9400.00	0.00	179.69	9379.02	-208.97	-169.22	209.85	0.00	
	9500.00 9600.00	0.00 0.00	179.69 179.69	9479.02 9579.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	
	9700.00	0.00	179.69	9679.02	-208.97	-169.22	209.85	0.00	
	9800.00	0.00	179.69	9779.02	-208.97	-169.22	209.85	0.00	
	9900.00	0.00	179.69	9879.02	-208.97	-169.22	209.85	0.00	
	9905.98	0.00	179.69	9885.00	-208.97	-169.22	209.85	0.00	Bone Spring 2nd
	10000.00 10100.00	0.00 0.00	179.69 179.69	9979.02 10079.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	
	10200.00	0.00	179.69	10179.02	-208.97	-169.22	209.85	0.00	
	10300.00	0.00	179.69	10279.02	-208.97	-169.22	209.85	0.00	
	10365.98	0.00	179.69	10345.00	-208.97	-169.22	209.85	0.00	3rd Bone Spring Lime
	10400.00	0.00	179.69	10379.02	-208.97	-169.22	209.85	0.00	
	10500.00 10600.00	0.00 0.00	179.69 179.69	10479.02 10579.02	-208.97 -208.97	-169.22 -169.22	209.85 209.85	0.00 0.00	
	10600.00	0.00	179.69	10579.02	-208.97 -208.97	-169.22	209.85	0.00	
	10800.00	0.00	179.69	10779.02	-208.97	-169.22	209.85	0.00	
	10900.00	0.00	179.69	10879.02	-208.97	-169.22	209.85	0.00	
	11000.00	0.00	179.69	10979.02	-208.97	-169.22	209.85	0.00	
	11048.02	0.00 1.80	179.69 179.69	11027.04 11045.00	-208.97 -209.25	-169.22 -169.22	209.85 210.14	0.00 10.00	KOP Bone Spring 3rd
	11065.98 11100.00	5.20	179.69	11045.00	-209.25	-169.22	210.14 212.21	10.00	Bone Spring 3rd
	11200.00	15.20	179.69	11177.25	-229.01	-169.11	229.89	10.00	
	11300.00	25.20	179.69	11270.98	-263.49	-168.93	264.37	10.00	
	11400.00	35.20	179.69	11357.30	-313.72	-168.65	314.60	10.00	
	11500.00	45.20	179.69	11433.58	-378.18	-168.30	379.06	10.00	
	11600.00 11613.34	55.20 56.53	179.69 179.69	11497.51 11505.00	-454.91 -465.95	-167.89 -167.83	455.79 466.82	10.00 10.00	Wolfcamp / Point of Penetration
	11700.00	65.20	179.69	11505.00	-403.95	-167.65	400.02 542.44	10.00	woncamp / romt of reflectation
	11800.00	75.20	179.69	11580.99	-635.54	-166.91	636.41	10.00	
	11900.00	85.20	179.69	11597.99	-733.95	-166.38	734.82	10.00	
	11948.77	90.08	179.69	11600.00	-782.67	-166.12	783.53		Landing Point
	12000.00 12100.00	90.08 90.08	179.69 179.69	11599.93 11599.80	-833.90 -933.90	-165.84 -165.30	834.75 934.75	0.00 0.00	
	12100.00	90.08 90.08	179.69		-933.90	-165.30	934.75 1034.74	0.00	
	12300.00	90.08	179.69	11599.54		-164.22	1134.74	0.00	
	12400.00	90.08	179.69	11599.41		-163.67	1234.73	0.00	

.

1		Well	Maldives 1	5-27 Fed Con	n 628H				Geodetic System	US State Plane 1983
devon		County:		, . ca con					-	North American Datum 1927
			Permit Plar	n						Clarke 1866
			Permit Plar							3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
-	(ft) 12500.00	(°) 90.08	(°) 179.69	(ft) 11599.28	(ft) -1333.89	(ft) -163.13	(ft) 1334.73	(°/100ft) 0.00		
	12600.00	90.08	179.69	11599.20	-1433.89	-162.59	1434.72	0.00		
	12700.00	90.08	179.69	11599.01	-1533.89	-162.05	1534.71	0.00		
	12800.00	90.08	179.69	11598.88	-1633.88	-161.51	1634.71	0.00		
	12900.00	90.08	179.69	11598.75	-1733.88	-160.97	1734.70	0.00		
	13000.00	90.08	179.69	11598.62	-1833.88	-160.43	1834.70	0.00		
	13100.00	90.08	179.69	11598.49	-1933.88	-159.88	1934.69	0.00		
	13200.00	90.08	179.69	11598.36	-2033.88	-159.34	2034.69	0.00		
	13300.00	90.08	179.69	11598.23	-2133.88	-158.80	2134.68	0.00		
	13400.00 13500.00	90.08 90.08	179.69 179.69	11598.09 11597.96	-2233.88 -2333.87	-158.26 -157.72	2234.67 2334.67	0.00 0.00		
	13600.00	90.08	179.69	11597.83	-2433.87	-157.18	2434.66	0.00		
	13700.00	90.08	179.69	11597.70	-2533.87	-156.64	2534.66	0.00		
	13800.00	90.08	179.69	11597.57	-2633.87	-156.10	2634.65	0.00		
	13900.00	90.08	179.69	11597.44	-2733.87	-155.55	2734.65	0.00		
	14000.00	90.08	179.69	11597.31	-2833.87	-155.01	2834.64	0.00		
	14100.00	90.08	179.69	11597.17	-2933.86	-154.47	2934.63	0.00		
	14200.00	90.08	179.69	11597.04	-3033.86	-153.93	3034.63	0.00		
	14300.00	90.08	179.69	11596.91	-3133.86	-153.39	3134.62	0.00		
	14400.00 14500.00	90.08 90.08	179.69 179.69	11596.78 11596.65	-3233.86 -3333.86	-152.85 -152.31	3234.62 3334.61	0.00 0.00		
	14600.00	90.08	179.69	11596.52	-3433.86	-151.76	3434.61	0.00		
	14700.00	90.08	179.69	11596.39	-3533.86	-151.22	3534.60	0.00		
	14800.00	90.08	179.69	11596.26	-3633.85	-150.68	3634.59	0.00		
	14900.00	90.08	179.69	11596.12	-3733.85	-150.14	3734.59	0.00		
	15000.00	90.08	179.69	11595.99	-3833.85	-149.60	3834.58	0.00		
	15100.00	90.08	179.69	11595.86	-3933.85	-149.06	3934.58	0.00		
	15200.00	90.08	179.69	11595.73	-4033.85	-148.52	4034.57	0.00		
	15300.00 15400.00	90.08 90.08	179.69 179.69	11595.60 11595.47	-4133.85 -4233.84	-147.98 -147.43	4134.56 4234.56	0.00 0.00		
	15500.00	90.08	179.69	11595.34	-4333.84	-147.43	4334.55	0.00		
	15600.00	90.08	179.69	11595.20	-4433.84	-146.35	4434.55	0.00		
	15700.00	90.08	179.69	11595.07	-4533.84	-145.81	4534.54	0.00		
	15800.00	90.08	179.69	11594.94	-4633.84	-145.27	4634.54	0.00		
	15900.00	90.08	179.69	11594.81	-4733.84	-144.73	4734.53	0.00		
	16000.00	90.08	179.69	11594.68	-4833.84	-144.19	4834.52	0.00		
	16100.00	90.08	179.69	11594.55	-4933.83	-143.65	4934.52	0.00		
	16200.00 16300.00	90.08 90.08	179.69 179.69	11594.42 11594.29	-5033.83 -5133.83	-143.10 -142.56	5034.51 5134.51	0.00 0.00		
	16400.00	90.08	179.69	11594.15	-5233.83	-142.02	5234.50	0.00		
	16500.00	90.08	179.69		-5333.83	-141.48	5334.50	0.00		
	16600.00	90.08	179.69	11593.89	-5433.83	-140.94	5434.49	0.00		
	16700.00	90.08	179.69	11593.76	-5533.82	-140.40	5534.48	0.00		
	16800.00	90.08	179.69	11593.63	-5633.82	-139.86	5634.48	0.00		
	16900.00	90.08	179.69	11593.50	-5733.82	-139.31	5734.47	0.00		
	17000.00 17100.00	90.08 90.08	179.69 179.69	11593.37 11593.23	-5833.82 -5933.82	-138.77 -138.23	5834.47 5934.46	0.00 0.00		
	17200.00	90.08	179.69	11593.10	-6033.82	-137.69	6034.46	0.00		
	17300.00	90.08	179.69	11592.97	-6133.81	-137.15	6134.45	0.00		
	17400.00	90.08	179.69	11592.84	-6233.81	-136.61	6234.44	0.00		
	17500.00	90.08	179.69	11592.71	-6333.81	-136.07	6334.44	0.00		
	17600.00	90.08	179.69	11592.58	-6433.81	-135.53	6434.43	0.00		
	17700.00	90.08	179.69	11592.45	-6533.81	-134.98	6534.43	0.00		
	17800.00	90.08	179.69	11592.31 11592.18	-6633.81	-134.44	6634.42	0.00		
	17900.00 18000.00	90.08 90.08	179.69 179.69	11592.18	-6733.81 -6833.80	-133.90 -133.36	6734.41 6834.41	0.00 0.00		
	18100.00	90.08	179.69	11591.92	-6933.80	-133.30	6934.40	0.00		
	18200.00	90.08	179.69	11591.79		-132.28	7034.40	0.00		
	18300.00	90.08	179.69	11591.66		-131.74	7134.39	0.00		
	18400.00	90.08	179.69	11591.53		-131.19	7234.39	0.00		
	18500.00	90.08	179.69	11591.40	-7333.80	-130.65	7334.38	0.00		
	18600.00	90.08	179.69	11591.26		-130.11	7434.37	0.00		
	18700.00	90.08	179.69	11591.13		-129.57	7534.37	0.00		
	18800.00	90.08	179.69	11591.00		-129.03	7634.36	0.00		
	18900.00 19000.00	90.08 90.08	179.69	11590.87 11590.74		-128.49 -127.95	7734.36 7834.35	0.00 0.00		
	19000.00	90.08 90.08	179.69 179.69	11590.74 11590.61	-7833.79 -7933.79	-127.95 -127.41	7834.35 7934.35	0.00		
	19200.00	90.08	179.69	11590.48		-126.86	8034.34	0.00		
	19300.00	90.08	179.69	11590.34		-126.32	8134.33	0.00		
	19400.00	90.08	179.69	11590.21	-8233.78	-125.78	8234.33	0.00		

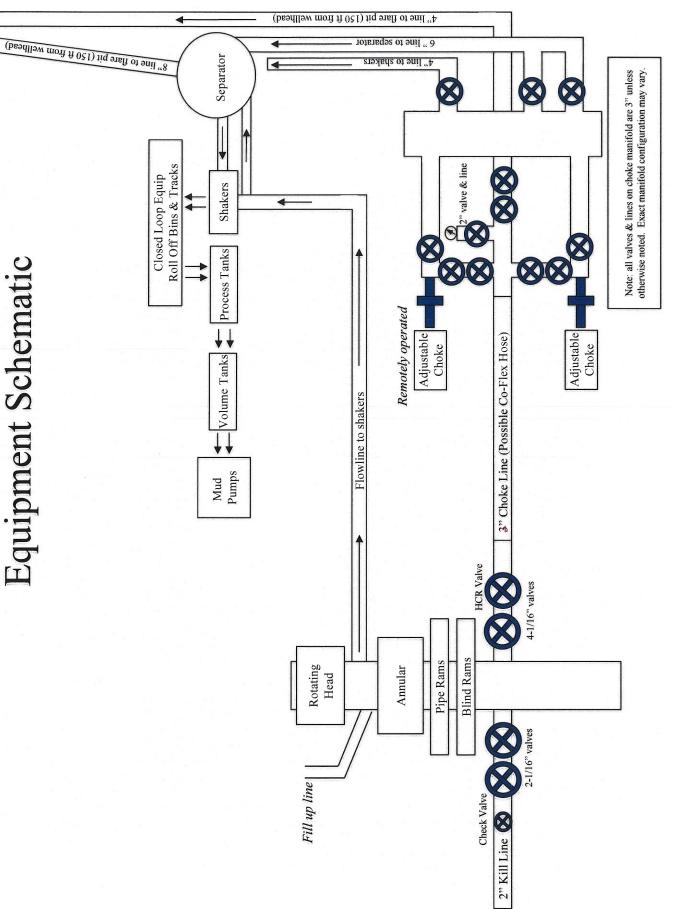
•

Term and the probability of the probabilit	devon		County: Wellbore:	Eddy Permit Plar		n 628H				Datum: Ellipsoid:	US State Plane 1983 North American Datum Clarke 1866	
(b) (c) (c) (c) (c) (c) (c) (c) 1100000 9000 17900 105000 9000 17900 105000 9000 17900 105000 9000 17900 105500 9000 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 9000 17900 105500 9000 9000 17900 105500 9000 9000 17900 105500 9000 9000 17900 105500 9000 9000 17900 105500 9000 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 9000 17900 105500 105000 9000 17900 1		MD	5			NS	EW	vs	DLS		3001 - NM East (NAD83)	
196000 900 1780 118895 -43376 24470 84432 00 196000 900 1790 118896 -43377 1282 84431 00 20000 900 1790 118896 -43377 1218 90429 00 201000 900 1790 118892 -93377 1219 91428 00 201000 900 1790 118817 -93377 1219 91428 00 200000 900 1790 118817 -93377 1219 91428 00 200000 900 1796 118847 -93377 1219 94424 00 200000 900 1796 118847 -93377 11620 94425 00 210000 900 1796 118847 -93377 11620 94425 00 210000 900 1796 118847 -93377 11620 94425 00 210000 900 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Comment</th> <th></th> <th></th>										Comment		
197000 900 17509 19500 900 17509 19500 900 1750 19500 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19500 900 900 1750 19501 91422 000 200000 900 1750 19501 19501 1970 19501 1970 19501 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970												
198000 900 17.90 118.95.9 -63.12.6 26.41.3 0.0 200000 900 17.90 118.95.9 -23.28 884.490 0.0 200000 900 17.90 118.95.9 -23.28 884.490 0.0 200000 900 17.90 118.93.9 -23.28 894.490 0.0 200000 900 17.90 118.81 93.377 12.37 0.20 0.0 200000 900 17.99 118.81 93.377 12.37 0.0 0.0 200000 900 17.99 118.81 93.377 11.71 94.42 0.0 200000 900 17.99 118.81 93.375 11.72 94.42 0.0 210000 900 17.99 118.93 93.375 11.64 10.94.22 0.0 210000 900 17.99 118.79 93.375 11.82 94.42 0.0 210000 900 17.99 118.79 10.33.75 11.72 94.24 0.0 210000 900												
199000 900 7766 119845 67337 71236 881429 000 201000 900 1766 119845 69337 71218 881429 000 200000 900 1766 119845 69337 71218 89142 000 200000 900 1766 119845 9337 71137 93147 000 200000 900 1766 119845 9337 11187 931427 000 200000 900 1766 119857 9337 1183 931427 000 200000 900 1766 119857 93336 1183 931427 000 200000 900 1766 119759 93356 11835 93142 000 210000 900 1766 119759 9335 1163 93424 000 210000 900 1766 119759 119337 11641 103422 000 210000 900 1766 119759 119337 1141 103420 000 210000 900 1766 119654 110337 1142 103420 000 210000 900 1766 1156												
201000 9000 1766 11992 89337 71239 893428 000 200000 9008 1766 119930 9137 71239 91428 000 200000 9008 1766 119837 9337 7138 93427 000 200000 9008 1766 119837 9337 1138 93427 000 200000 9008 1766 119837 9337 1178 93424 000 200000 9008 1766 119837 9337 1176 93424 000 210000 9008 1766 11937 19337 1160 103422 000 210000 9008 1766 11937 10337 1134 103422 000 210000 9008 1766 119375 10335 1134 103420 000 210000 9008 1766 119375 11333 103420 000 210000 9008 1766 119357 11333 103420 000 210000 9008 1766 119354 11334 103412 000 210000 9008 1766 119354 11334 10441												
220000 9000 17860 11890 6 90137 121.55 901428 0.00 240000 9008 1766 118850 92137 120.37 921427 0.00 260000 9008 1766 11887 93137 1192 94142 0.00 200000 9008 1766 11887 93137 1192 94126 0.00 200000 9008 1766 118817 93137 1182 94124 0.00 200000 9008 1766 118317 93337 11638 94124 0.00 210000 9008 1766 118377 103337 1164 103422 0.00 210000 9008 1766 118372 103337 1164 103422 0.00 210000 9008 1766 118372 103337 1164 103422 0.00 210000 9008 1766 118367 11333 105420 0.00 210000 <			90.08		11589.43		-122.53		0.00			
20000 900 1760 11980 91337 1221 91427 000 20000 900 1760 11984 93147 000 20000 900 1760 11984 93147 000 20000 900 1760 11984 93147 010 20000 900 1760 11984 93147 0112 20000 900 1760 11984 93147 012 210000 900 1760 11975 10337 11712 93142 000 210000 900 1760 11975 10337 11450 103422 000 210000 900 1760 11977 10337 11533 103421 000 210000 900 1760 11977 10337 11531 103421 000 210000 900 1760 11967 10337 11331 103421 000 210000 900 1760 119667 11335 11225 103414 000 210000 900 1760 119667 113324 11041 000 220000 900 1760 119567 113334 110411 00												
204000 9000 17869 119879 24237 1000 206000 9001 17869 119879 94342 000 206000 9001 17869 119839 94325 000 208000 9001 17869 119839 94325 000 208000 9001 17869 119839 94325 000 210000 9001 17669 119759 94325 000 210000 9001 17669 119759 94325 000 210000 9001 17669 119759 103337 1150 103422 000 210000 9001 1769 119729 103337 1133 103420 000 210000 9001 1769 119674 103337 1133 103420 000 210000 9001 1769 119644 11117 103441 000 220000 9001 1769 119644 111334 1004 100441												
200000 9000 1790 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17960 17970 198124 1716 98124 000 210000 0000 17960 17976 17976 198275 10337 10340 000 210000 0000 17960 19776 19772 103375 1136 10342 000 210000 0000 17960 19796 19787 103375 1137 10342 000 210000 0000 17960 19796 19796 19797 103575 1137 10342 000 210000 0000 17960 19796 19868 103337 1137 10341 000 220000 0000 17960												
200000 0000 1796 1586.2 933.7 113.0 934.25 0.00 200000 0000 1796 1586.27 933.7 113.0 934.25 0.00 2100000 0000 1796 1586.27 933.7 116.0 934.24 0.00 2100000 0000 1796 1587.27 1013.07 1014.22 0.00 2100000 0000 1796 1587.28 1013.37 115.00 1014.22 0.00 2100000 0000 1796 1587.28 1013.37 115.30 1014.22 0.00 2100000 0000 1796 1587.07 1013.37 1103.40 1004 210000 0000 1796 1596.67 1003.37 111.17 1034.11 0.00 210000 0000 1796 1596.67 1003.37 111.17 1034.11 0.00 220000 0000 1796 1596.67 1013.34 110.01 1134.10 0.00 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>												
200000 9008 17969 1158.27 97376 171.6 9914.24 0.0 210000 9008 17969 1158.21 993.7 116.8 994.22 0.0 210000 9008 17969 11597.8 1013.37 116.4 1094.22 0.0 210000 9008 17969 11597.8 1013.37 116.4 1094.22 0.0 210000 9008 17969 11597.8 1013.37 114.4 1034.21 0.0 210000 9008 17969 11597.8 1033.37 114.4 1034.21 0.0 210000 9008 17969 11586.6 1033.37 114.1 1034.1 0.0 220000 9008 17969 11586.6 1033.4 111.1 1084.1 0.0 220000 9008 17969 11586.6 1133.3 110.4 1.00 220000 9008 17969 11586.4 1133.3 110.4 1.00 2200000 <th></th>												
209000 90.00 176.00 198.24 .973.27 .17.60 974.24 0.00 2110000 90.00 176.00 198.79 .198.79 .993.23 0.00 2120000 90.00 176.00 1198.72 .101.33 .115.00 101.422 0.00 2130000 90.00 176.00 1198.72 .101.33 .113.00 0.00 2150000 90.00 176.00 1198.72 .101.33 .103.32 0.00 2170000 90.08 176.00 1198.72 .101.31 .103.42 0.00 2170000 90.08 176.00 1186.70 .103.37 .101.31 104.41 0.00 2100000 90.08 176.00 1186.64 .103.37 .101.41 0.00 2200000 90.08 176.00 1156.64 .113.37 .104.51 100.11 .00 2200000 90.08 176.00 1156.55 .1163.13 .00 .013.11 .00 2200000 90.08		20700.00	90.08	179.69		-9533.76	-118.74	9534.25	0.00			
210000 9000 1760 1158/11 993.77 -17.12 994.24 000 212000 9000 1760 115875 903.37 -11.60 1034.22 000 214000 9000 1760 115875 103.32 10.50 10.54 10.54 10.54 214000 9000 1760 115875 10.32.3 11.41 10.34.20 000 216000 9008 1760 115875 10.32.3 11.33 10.34.20 000 216000 9008 1760 115876 10.53.7 11.31 10.34.20 000 216000 9008 1760 115676 10.53.7 11.71 10.34.17 000 220000 9008 1760 11566 10.53.7 11.71 10.34.17 000 220000 9008 1766 11565.6 110.31.7 11.04.11 10.34.17 000 220000 9008 1766 1156.5 113.37.1 10.72.1 11.34.14 000 220000 9008 1766 1156.5 113.37.												
2110000 9000 7760 11578 9934.23 000 2130000 9008 7760 11575 1103.37 115.00 104.22 000 2150000 9008 1760 115752 1013.37 11.41 1034.21 000 215000 9008 1760 11572 1013.37 11.41 1034.21 000 2170000 9008 1760 11575 1013.37 113.31 1044.20 000 2190000 9008 1760 115676 1053.37 11.33 1054.20 000 2190000 9008 1760 115665 1093.41 11.117 1034.16 00 220000 9008 1760 115667 1093.14 11.117 1034.15 00 220000 9008 1760 115667 1133.15 11.00 1134.15 00 220000 9008 1760 1156567 1133.31 11.00 1134.15 00 220000 9008 1760 115656 1133.31 11.00 1134.15 00 <th></th>												
212000 9008 1769 11572 11357 116.04 103422 000 214000 9008 1769 115729 102337 1144 103420 000 216000 9008 1769 115746 115874 113871 104420 000 216000 9008 1769 115746 105337 11387 104420 000 216000 9008 1769 115676 105337 1171 105414 000 220000 9008 1769 115667 105337 1171 105417 000 220000 9008 1769 115667 105337 1171 105417 000 220000 9008 1769 115664 110331 101631 100 220000 9008 1769 115654 110313 101631 100 220000 9008 1769 115657 115331 10742 115441 000 220000 9008 1769 115652 115332 10632 115414 000 2200												
213000 900 1796 156772 103375 11450 103422 000 215000 900 17969 155746 103375 11440 103421 000 217000 900 17969 155745 11337 11347 103420 000 217000 900 17969 15563 17137 103420 000 219000 900 17969 15563 173374 1127 103418 000 210000 900 17969 155663 103374 1117 103414 000 220000 900 17969 155664 1103374 11054 11341 000 230000 900 17969 115667 1103373 11054 11341 000 220000 900 17969 115646 113337 11094 11341 000 220000 900 17969 115645 113337 11024 11444 000 220000 900 17969 115642 113371 11024 11440 000												
215000 90.0 179.69 158.74 158.74 1033.27 113.87 1034.20 000 2170000 90.00 179.69 158.719 170.33.75 113.31 1054.20 000 2190000 90.00 179.69 155.693 171.279 1054.11 000 2190000 90.00 179.69 155.663 170.33.74 111.71 1034.11 000 220000 90.00 179.69 155.667 170.33.74 111.71 1034.11 000 220000 90.00 179.69 155.667 1133.74 110.03 1134.15 000 220000 90.00 179.69 155.64 1133.71 109.41 1134.16 000 220000 90.00 179.69 155.65 1753.37 107.42 1134.14 000 220000 90.00 179.69 155.62 1753.37 165.41 1133.12 000 230000 90.00 179.69 155.62 1133.12 106.29 1134.12 000 230000 90.00 179.69 155.62<												
21600.0 90.0 179.69 157.32 1038.37 1138.3 1034.20 0.00 21600.00 90.00 179.69 155.70 -0033.75 -112.9 1064.19 0.00 22000.00 90.00 179.69 156.60 -1033.74 -112.5 107.41 0.00 22000.00 90.00 179.69 156.66 -1033.74 -111.71 1088.11 0.00 22000.00 90.00 179.69 156.64 -1133.37 -100.61 1134.14 0.00 22000.00 90.00 179.69 155.67 -1133.71 -103.01 1134.14 0.00 22000.00 90.00 179.69 155.67 -1133.71 -105.01 1134.14 0.00 22000.00 90.00 179.69 155.65 -1133.71 -105.41 1134.14 0.00 22000.00 90.00 179.69 155.64 -1133.71 -105.41 1134.14 0.00 22000.00 90.00 179.69 155.55 -1133.71 -105.41 123.41 0.00 23000.00 90.00 <t< th=""><th></th><th>21400.00</th><th>90.08</th><th>179.69</th><th>11587.59</th><th>-10233.75</th><th>-114.96</th><th>10234.21</th><th>0.00</th><th></th><th></th><th></th></t<>		21400.00	90.08	179.69	11587.59	-10233.75	-114.96	10234.21	0.00			
21700.00 90.08 176.90 1587.19 1033.75 -112.79 104.19 0.00 21900.00 90.08 176.90 1158.69 -1033.74 -112.75 1034.18 0.00 22000.00 90.08 176.90 1158.69 -1033.74 -111.71 1034.17 0.00 22000.00 90.08 176.90 1158.64 -1033.74 -110.63 1133.17 0.00 22000.00 90.08 176.90 1158.64 -1133.74 -110.90 1134.16 0.00 22000.00 90.08 176.90 1158.61 -1143.73 -106.90 1134.16 0.00 22000.00 90.08 176.90 1158.61 -1143.73 -106.24 1134.16 0.00 22000.00 90.08 176.90 1158.61 -1143.73 -106.24 1134.16 0.00 22000.00 90.08 176.90 1158.62 -1133.73 -106.24 1134.13 0.00 2300.00 90.08 176.90 1158.64 -1133.73 -106.24 1230.10 0.00 2300.00 90.08												
2180000 90.08 17860 11870.6 10833.7 -112.5 1034.18 0.00 2200000 90.08 1786 118668 1033.74 -111.71 1034.18 0.00 2200000 90.08 1786 118668 1033.74 -111.17 1034.18 0.00 220000 90.08 1796 118664 -1133.73 -110.64 113.11 0.00 220000 90.08 1796 118640 -1133.73 -110.94 113.14 0.00 220000 90.08 179.69 1158.64 -1133.73 -110.94 113.14 0.00 220000 90.08 179.69 1158.14 1133.73 -10.92 113.14 0.00 2200000 90.08 178.61 1158.57 -1133.73 -10.84 1143.14 0.00 2300000 90.08 178.61 1158.52 -1033.72 -10.84 1143.14 0.00 2300000 90.08 178.61 1158.52 -1033.72 -10.52 123.41 0.00 2300000 90.08 178.69												
21900.00 90.08 176.09 1586.03 1073.27 117.17 1034.18 0.00 22000.00 90.08 176.90 1586.67 1033.74 111.71 1034.17 0.00 22000.00 90.08 176.90 1586.67 1033.74 110.63 1134.15 0.00 22000.00 90.08 179.69 1586.47 1133.73 -109.00 1134.15 0.00 22600.00 90.08 179.69 1158.61 -1133.37 -109.00 1134.15 0.00 22600.00 90.08 179.69 1158.61 -1133.37 -109.20 1134.15 0.00 22600.00 90.08 179.69 1158.61 -1133.37 -107.90 1134.15 0.00 22000.00 90.08 179.69 1158.51 -1133.73 -107.90 1134.15 0.00 23000.00 90.08 179.69 1158.54 -1133.73 -106.84 1134.15 0.00 23000.00 90.08 179.69 1158.54 -1133.73 -106.84 1134.15 0.00 23000.00 90.08 <th></th>												
220000 9000 17969 119569 1083.17 100 220000 9000 1796 11956.4 -110.31 103.41 0.00 220000 9000 1796 11956.4 -110.31 113.41 0.00 220000 9000 1796 11956.4 -113.31 100.5 112.31.15 0.00 220000 9008 1796 11956.5 -113.33 100.4 113.41.15 0.00 220000 9008 1796 11956.5 -113.33 110.46 113.41.15 0.00 220000 9008 1796 11955.5 -113.37 -110.46 113.41.14 0.00 230000 9008 1796 11955.2 -113.37 -106.2 113.41.14 0.00 230000 9008 1796 11956.2 -113.37 -106.47 123.41.0 0.00 230000 9008 1796 1158.50 -113.37 -106.2 123.40.0 0.00 2300000 9008 </th <th></th>												
22000 900 1796 1196.44 -1103.47 -1106.3 1103.417 0.00 220000 9008 1796 1196.40 -1103.37 -1008 1134.16 0.00 220000 9008 1796 1196.61 -1133.73 -108.40 1134.15 0.00 220000 9008 1796 1195.55 -1133.73 -108.41 136.14 0.00 220000 9008 1796 1195.57 -1133.73 -106.44 1173.41 0.00 220000 9008 1796 1195.45 -1133.73 -106.44 1173.41 0.00 230000 9008 1796 1195.45 -1133.73 -106.44 1173.41 0.00 230000 9008 1796 1195.45 -1233.71 -104.77 123.410 0.00 230000 9008 1796 1158.45 -123.372 -104.77 123.410 0.00 230000 9008 1796 11584.45 -123.371 -104.72									0.00			
220000 90.08 179.69 1156.47 -1133.73 -10.08 1134.16 0.00 226000 90.8 179.69 1156.61 -1133.73 -10.90 1134.15 0.00 226000 90.8 179.69 1156.61 -1143.37 -10.94 1134.14 0.00 226000 90.08 179.69 1156.52 -1153.73 -10.73 1163.41 0.00 228000 90.08 179.69 1155.55 -1163.373 -107.30 1163.41 0.00 229000 90.08 179.69 1155.55 -1163.373 -107.20 1139.412 0.00 230000 90.08 179.69 1155.55 -1163.373 -106.21 1234.10 0.00 230000 90.08 179.69 1155.55 -1153.372 -106.21 1234.10 0.00 230000 90.08 179.69 1156.43 -1233.72 -106.21 1234.00 0.00 230000 90.08 179.69 1156.43 -1233.71 -101.45 1234.40 0.00 230000 90.08 179												
22400.0 90.08 179.69 11563.7 -1023.74 -1025.7 -1123.15 0.00 22600.0 90.08 179.69 11565.01 -1143.373 -1002.01 1134.15 0.00 22700.00 90.08 179.69 11585.58 -1153.373 -107.32 1158.14 0.00 22800.01 90.08 179.69 11585.52 -1173.373 -106.44 1173.41 0.00 2200.00 90.08 179.69 11585.52 -1073.37 -107.54 1138.12 0.00 2300.00 90.08 179.69 1158.52 -1073.37 -106.44 1234.10 0.00 2300.00 90.08 179.69 1158.43 -1233.72 -104.13 1234.10 0.00 2300.00 90.08 179.69 1158.43 -1233.72 -104.13 1234.10 0.00 2300.00 90.08 179.69 1158.43 -1233.72 -104.51 1234.09 0.00 2300.00 90.08 179.69 1158.43												
25000 90.08 179.69 156.01 -1133.73 -109.00 1134.14 0.00 220000 90.08 179.69 156.05 -1153.73 -107.20 1154.14 0.00 220000 90.08 179.69 1156.55 -1163.73 -107.20 1154.14 0.00 220000 90.08 179.69 1158.55 -1163.73 -106.20 1184.14 0.00 220000 90.08 179.69 1158.55 -1153.73 -106.20 1139.12 0.00 230000 90.08 179.69 1158.55 -1153.72 -106.21 1234.10 0.00 230000 90.08 179.69 1158.59 -1233.72 -104.13 1234.09 0.00 230000 90.08 179.69 1158.47 -1233.72 -104.51 1234.09 0.00 230000 90.08 179.69 1158.47 -1233.71 -104.81 234.04 0.00 230000 90.08 179.69 1158.43 -1233.71												
22600.00 90.08 179.69 1158.01 -1143.73 -104.40 1154.14 0.00 22600.00 90.08 179.69 1158.56 -1173.73 -107.20 1158.14 0.00 22600.00 90.08 179.69 1158.56 -1173.73 -106.84 1174.13 0.00 23000.00 90.08 179.69 1158.55 -1133.73 -106.24 1174.13 0.00 23000.00 90.08 179.69 1158.55 -1133.72 -105.75 1193.12 0.00 23000.00 90.08 179.69 1158.54 -123.372 -104.71 123.410 0.00 23000.00 90.08 179.69 1158.44 -123.372 -103.51 123.440 0.00 23000.00 90.08 179.69 1158.44 -123.371 -101.41 1274.07 0.00 23000.00 90.08 179.69 1158.44 -123.371 -101.41 1274.07 0.00 24000.00 90.08 179.69 1158.31												
228000 90.08 179.69 11585.75 -1163.13 -106.24 1173.13 0.00 230000 90.08 179.69 11585.62 -1173.173 -106.29 1183.12 0.00 2300000 90.08 179.69 11585.55 -1193.37 -106.29 1183.12 0.00 230000 90.08 179.69 11585.29 -1123.37 -106.29 1139.12 0.00 230000 90.08 179.69 11584.50 -1213.27 -104.67 1213.10 0.00 230000 90.08 179.69 11584.50 -1213.37 -103.50 1234.10 0.00 230000 90.08 179.69 11584.43 -1223.37 -101.50 1263.408 0.00 230000 90.08 179.69 11584.43 -1223.37 -101.54 1274.40 0.00 230000 90.08 179.69 11584.43 -1233.17 -100.8 1283.406 0.00 240000 90.08 179.69 11584.37 -1333.47 -92.6 1334.05 0.00 240000 90.08												
22900.00 90.08 179.69 11585.42 -1173.13 -106.29 1183.12 0.00 23000.00 90.08 179.69 11585.43 -1183.37 -106.29 1183.12 0.00 23000.00 90.08 179.69 11585.22 -105.75 1193.41 0.00 23000.00 90.08 179.69 11585.22 -1213.72 -104.67 1213.411 0.00 23000.00 90.08 179.69 11584.40 -1233.72 -103.55 1234.10 0.00 23000.00 90.08 179.69 11584.40 -1233.72 -103.55 1234.40 0.00 23000.00 90.08 179.69 11584.47 -1233.71 -103.45 1234.40 0.00 23000.00 90.08 179.69 11584.47 -1233.71 -103.44 1234.40 0.00 24000.00 90.08 179.69 11584.37 -1233.71 -103.44 1234.40 0.00 24000.00 90.08 179.69 11584.37 -1233.71 -103.44 1234.40 0.00 24000.00 90.08		22700.00	90.08		11585.88	-11533.73	-107.92		0.00			
2300.00 90.08 179.69 11585.49 -1183.12 0.00 2300.00 90.08 179.69 11585.22 -103.37 -105.21 1203.411 0.00 23300.00 90.08 179.69 11585.22 -123.372 -104.67 1213.410 0.00 23400.00 90.08 179.69 11584.63 -123.372 -104.67 1234.10 0.00 23500.00 90.08 179.69 11584.63 -123.372 -103.51 1234.09 0.00 23600.00 90.08 179.69 11584.37 -125.372 -103.51 1234.09 0.00 23600.00 90.08 179.69 11584.37 -125.372 -103.51 1243.40 0.00 23600.00 90.08 179.69 11584.34 -1253.77 -101.42 1274.47 0.00 24000.00 90.08 179.69 11584.37 -1333.71 -99.61 134.05 0.00 24000.00 90.08 179.69 11583.25 -1333.70 -96.71 1334.03 0.00 24000.00 90.08 179.69 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
2310.00 90.88 179.69 11585.25 -1193.372 -105.75 1193.412 0.00 2330.00 90.88 179.69 11585.20 -1203.72 -105.75 1203.11 0.00 2340.00 90.08 179.69 11585.45 -1233.72 -104.13 1223.410 0.00 2350.00 90.08 179.69 11584.56 -1233.72 -104.13 1223.410 0.00 2360.00 90.08 179.69 11584.57 -1233.72 -103.51 1234.409 0.00 2360.00 90.08 179.69 11584.43 -1233.72 -101.56 1254.408 0.00 2380.00 90.08 179.69 11584.14 -1233.71 -101.48 1293.406 0.00 2400.00 90.08 179.69 11584.14 -1233.71 -101.48 1293.406 0.00 2400.00 90.08 179.69 11584.74 -1233.71 -101.48 1293.406 0.00 2400.00 90.08 179.69 11583.17 -133.71 -192.6 13134.05 0.00 2400.00												
2320000 90.08 179.69 11585.22 -1203.72 -104.67 12134.10 0.00 23400.00 90.08 179.69 11584.09 -1223.72 -104.31 1224.10 0.00 2500.00 90.08 179.69 11584.49 -1223.372 -103.59 1234.09 0.00 2500.00 90.08 179.69 11584.43 -1253.372 -103.51 1234.09 0.00 2300.00 90.08 179.69 11584.43 -1263.371 -101.42 1274.407 0.00 2300.00 90.08 179.69 11584.04 -1293.71 -101.42 1274.407 0.00 2400.00 90.08 179.69 11584.39 -1203.371 -101.42 1274.407 0.00 2400.00 90.08 179.69 11583.19 -1303.371 -90.01 1034.45 0.00 2400.00 90.08 179.69 11583.26 -1323.70 -98.17 1334.03 0.00 2400.00 90.08 179.69 11583.26 -1433.370 -96.71 1334.03 0.00 2400.00												
234000090.08179.6911584.9612233.72103.3512234.090.00236000090.08179.6911584.331233.72103.0512434.090.00237000090.08179.6911584.5712533.72102.5112534.080.00238000090.08179.6911584.3412633.71101.961254.080.00239000090.08179.6911584.3412633.71101.841273.4070.00240000090.08179.6911584.171283.71100.341293.4060.00240000090.08179.691158.311303.71199.801303.4050.0024000090.08179.691158.371313.7199.801303.4050.0024000090.08179.691158.351313.7199.801334.030.0024000090.08179.691158.351313.7199.801334.040.0024000090.08179.691158.351333.7097.711334.030.0024000090.08179.691158.351333.7097.711334.030.0024000090.81179.691158.251353.37095.571364.020.0024000090.81179.691158.251353.37095.471383.4010.0024000090.81179.691158.26-1433.6994.391403.3990.0025000090.81179.691158.26-1433.69<												
23500.0090.08179.6911584.70-1233.72-103.591234.090.0023600.0090.08179.6911584.70-1243.72-102.511253.4080.0023800.0090.08179.6911584.43-1263.71-101.641253.4080.0023900.0090.08179.6911584.43-1263.71-101.641283.4060.0024000.0090.08179.6911584.40-1293.71-100.881293.4060.0024000.0090.08179.691158.417-1283.71-100.881293.4060.0024000.0090.08179.691158.378-1313.71-99.261313.4050.0024000.0090.08179.6911583.78-1313.371-99.261334.030.0024000.0090.08179.6911583.78-1313.371-99.261334.030.0024000.0090.08179.6911583.28-1333.70-97.631343.4030.0024000.0090.08179.6911583.28-1333.70-97.631343.4030.0024000.0090.08179.691158.21-1533.70-97.631343.4030.0024000.0090.08179.691158.21-1533.70-97.631343.4030.0024000.0090.08179.691158.21-1533.70-96.511343.4030.0025000.0090.08179.691158.24-1433.699.4331393.4000.0025000.0090.		23300.00	90.08	179.69	11585.09	-12133.72	-104.67	12134.10	0.00			
23600.0 90.08 179.69 1158470 -1243372 -103.05 1243409 0.00 23700.0 90.08 179.69 1158443 -1253372 -102.51 1253408 0.00 23800.00 90.08 179.69 1158443 -1253371 -101.62 1253408 0.00 23900.00 90.08 179.69 1158443 -123371 -100.88 1283406 0.00 24000.00 90.08 179.69 11584.04 -1293371 -100.88 12934.06 0.00 24200.00 90.08 179.69 11584.17 -12033.71 -99.00 13034.05 0.00 24300.00 90.08 179.69 11583.78 -1333.70 -98.17 1334.03 0.00 24400.00 90.08 179.69 11583.25 -1333.70 -96.11 1334.03 0.00 24500.00 90.08 179.69 11583.25 -1333.70 -96.11 1334.02 0.00 24700.00 90.08 179.69 11582.51 -1333.70 -96.11 1374.01 0.00 2500.00 9												
23700.0 90.08 179.69 11584.57 -12533.72 -102.51 12534.08 0.00 23800.00 90.08 179.69 11584.43 -12233.71 -101.42 12734.07 0.00 24000.00 90.08 179.69 11584.10 -12233.71 -101.42 12734.07 0.00 24000.00 90.08 179.69 11584.17 -1233.371 -100.34 12934.06 0.00 24200.00 90.08 179.69 11583.78 -13133.71 -99.02 13134.05 0.00 24300.00 90.08 179.69 11583.78 -1323.70 -98.72 1323.403 0.00 24400.00 90.08 179.69 11583.53 -1333.70 -98.72 1323.403 0.00 24500.00 90.08 179.69 11583.25 -1333.70 -96.73 1334.03 0.00 24600.00 90.08 179.69 11583.25 -1333.70 -95.61 1343.403 0.00 24700.00 90.08 179.69 11582.60 -1403.49 -94.93 13834.01 0.00 2500.00<												
23800.0 90.08 179.69 11584.43 -12633.71 -101.96 12634.08 0.00 23900.0 90.08 179.69 11584.30 -12733.71 -101.42 12734.07 0.00 24000.00 90.08 179.69 11584.04 -12933.71 -100.34 12834.06 0.00 24100.00 90.08 179.69 11583.05 -13033.71 -99.08 13934.05 0.00 24300.00 90.08 179.69 11583.55 -13233.70 -98.72 1324.04 0.00 24400.00 90.08 179.69 11583.55 -13233.70 -98.72 1324.04 0.00 24400.00 90.08 179.69 11583.25 -1333.370 -97.63 1334.05 0.00 24600.00 90.08 179.69 11583.25 -1333.70 -97.63 1354.02 0.00 24700.00 90.08 179.69 11582.25 -1333.70 -96.51 1363.402 0.00 2500.00 90.08 179.69 11582.26 -1433.99 9.43 1393.409 0.00 2500.00												
23900.0 90.08 179.69 11584.30 -12733.71 -101.42 12734.07 0.00 24000.0 90.08 179.69 11584.17 -12833.71 -100.88 12834.06 0.00 24000.0 90.08 179.69 11584.04 -12933.17 -100.81 12934.06 0.00 24200.0 90.08 179.69 11584.31 -1303.71 -99.00 13034.05 0.00 24300.00 90.08 179.69 11583.65 -1323.370 -98.07 1334.03 0.00 24400.00 90.08 179.69 11583.51 -1333.70 -96.17 1334.03 0.00 24500.00 90.08 179.69 11583.25 -1333.70 -96.17 1334.03 0.00 24700.00 90.08 179.69 11582.51 -1333.70 -96.01 1374.01 0.00 24800.00 90.08 179.69 11582.59 -1373.30 -96.11 1374.01 0.00 2500.00 90.08 179.69 11582.40 -1433.69 -94.33 1403.399 0.00 2500.00												
24100.0 90.08 179.69 1158.404 -12933.71 -100.34 12934.06 0.00 24200.0 90.08 179.69 1158.31 -13033.71 -99.80 13034.05 0.00 24300.00 90.08 179.69 1158.365 -13233.70 -98.72 1324.04 0.00 24400.00 90.08 179.69 11583.55 -13333.70 -98.72 13234.04 0.00 24500.00 90.08 179.69 11583.51 -13333.70 -98.72 1334.03 0.00 24700.00 90.08 179.69 11583.52 -1353.70 -97.69 1584.02 0.00 24700.00 90.08 179.69 11582.25 -1353.70 -96.51 13634.02 0.00 2490.00 90.08 179.69 11582.66 -13733.70 -96.51 13634.01 0.00 2500.00 90.08 179.69 11582.68 -1433.59 -94.33 13934.09 0.00 2500.00 90.08 179.69 11582.46 -14133.69 -94.33 13934.09 0.00 2500.00												
24200.0 90.08 179.69 11583.91 -13033.71 -99.00 13034.05 0.00 24300.00 90.08 179.69 11583.78 -13133.71 -99.26 13134.05 0.00 24400.00 90.08 179.69 11583.65 -1323.370 -98.72 13234.04 0.00 24500.00 90.08 179.69 11583.51 -1333.70 -96.17 1334.03 0.00 24700.00 90.08 179.69 11583.25 -15333.70 -96.17 1334.03 0.00 24700.00 90.08 179.69 11583.25 -15333.70 -96.51 13634.02 0.00 24800.00 90.08 179.69 11582.26 -13633.70 -96.51 13634.02 0.00 25000.00 90.08 179.69 11582.29 -1373.41 -042.50 0.00 25100.00 90.08 179.69 11582.46 -14133.69 94.39 14033.99 0.00 2500.00 90.08 179.69 11582.46 -14		24000.00							0.00			
24300.0 90.08 179.69 11583.78 -1313.71 -99.26 1313.405 0.00 24400.0 90.08 179.69 11583.65 13233.03 -98.72 1323.403 0.00 24500.00 90.08 179.69 11583.55 1-333.37 -98.77 1334.03 0.00 24600.00 90.08 179.69 11583.38 -1343.70 -97.63 13434.03 0.00 24700.00 90.08 179.69 11582.59 -1373.37 -96.01 13734.01 0.00 24900.00 90.08 179.69 11582.99 -1373.37 -96.01 13734.01 0.00 25000.00 90.08 179.69 11582.86 -1383.70 -95.47 13834.01 0.00 25000.00 90.08 179.69 11582.60 -1403.369 -94.39 13934.00 0.00 25000.00 90.08 179.69 11582.60 -1403.369 -93.30 14033.99 0.00 25000.00 90.08 179.69 11582.60 -1433.69 -92.76 1433.39 0.00 25000.00												
24400.0 90.08 179.69 11583.65 -13233.70 -98.72 13234.04 0.00 24500.00 90.08 179.69 11583.15 -13333.70 -98.77 13334.03 0.00 24500.00 90.08 179.69 11583.8 -13333.70 -97.61 13334.03 0.00 24700.00 90.08 179.69 11583.25 -13533.70 -97.09 13534.02 0.00 24900.00 90.08 179.69 11583.25 -13633.70 -95.55 13634.02 0.00 24900.00 90.08 179.69 11582.46 -13833.70 -95.47 13834.01 0.00 25000.00 90.08 179.69 11582.46 -14133.69 -94.33 13934.00 0.00 25000.00 90.08 179.69 11582.46 -14133.69 -94.33 13934.01 0.00 25000.00 90.08 179.69 11582.47 -1433.69 -94.33 13934.00 0.00 25000.00 90.08 179.69												
24500.0 90.08 179.69 11583.51 -13333.70 -98.17 13334.03 0.00 24600.0 90.08 179.69 11583.38 -13433.70 -97.63 13434.03 0.00 24700.00 90.08 179.69 11583.25 -13533.70 -97.63 13434.03 0.00 24800.00 90.08 179.69 11583.25 -13533.70 -96.55 13634.02 0.00 24900.00 90.08 179.69 11582.99 -13733.70 -96.51 13634.01 0.00 25000.00 90.08 179.69 11582.66 -13833.70 -96.51 13834.01 0.00 25100.00 90.08 179.69 11582.66 -14033.69 -94.39 1493.39 0.00 25300.00 90.08 179.69 11582.46 -14133.69 -93.01 1423.398 0.00 25400.00 90.08 179.69 11582.20 -1433.68 -91.41 1433.98 0.00 25500.00 90.08 179.69 11												
24600.0 90.08 179.69 11583.38 -13433.70 -97.63 13434.03 0.00 24700.0 90.08 179.69 11583.25 -13533.70 -97.09 13534.02 0.00 24800.00 90.08 179.69 11582.99 -13733.70 -96.51 13634.02 0.00 24900.00 90.08 179.69 11582.99 -13733.70 -96.51 13734.01 0.00 25000.00 90.08 179.69 11582.69 -13333.69 -94.31 13934.00 0.00 25000.00 90.08 179.69 11582.60 -14033.69 -94.39 13934.00 0.00 25300.00 90.08 179.69 11582.60 -14033.69 -94.39 14033.99 0.00 25400.00 90.08 179.69 11582.60 -14033.69 -93.30 14233.88 0.00 25600.00 90.08 179.69 11582.20 -1433.68 -91.68 1453.397 0.00 25700.00 90.08 179.69												
24800.00 90.08 179.69 11583.12 -13633.70 -96.55 13634.02 0.00 24900.00 90.08 179.69 11582.99 -13733.70 -96.01 13734.01 0.00 25000.00 90.08 179.69 11582.73 -13933.60 -94.93 13834.01 0.00 25100.00 90.08 179.69 11582.73 -13933.69 -94.93 13934.00 0.00 25200.00 90.08 179.69 11582.60 -14033.69 -94.39 14033.99 0.00 25300.00 90.08 179.69 11582.33 -14233.69 -93.30 14233.98 0.00 25400.00 90.08 179.69 11582.20 -1433.69 -92.76 1433.39 0.00 25400.00 90.08 179.69 11582.20 -1433.68 -92.27 1433.39 0.00 25500.00 90.08 179.69 11581.20 -1433.68 -91.68 1473.39 0.00 25700.00 90.08 179.69 11581.54 -14633.68 -91.14 14633.97 0.00 25800.00 <th></th>												
24900.00 90.08 179.69 11582.99 -13733.70 -96.01 13734.01 0.00 25000.00 90.08 179.69 11582.66 -13833.70 -96.01 13834.01 0.00 25000.00 90.08 179.69 11582.67 -13833.70 -96.47 13834.00 0.00 25000.00 90.08 179.69 11582.60 -14033.69 -94.39 13934.00 0.00 25300.00 90.08 179.69 11582.60 -14033.69 -93.30 14233.98 0.00 25400.00 90.08 179.69 11582.20 -1433.369 -92.76 1433.398 0.00 25600.00 90.08 179.69 11582.20 -1433.369 -92.76 1433.397 0.00 25600.00 90.08 179.69 11581.24 -1453.368 -91.68 1453.397 0.00 25700.00 90.08 179.69 11581.81 -14633.68 -91.64 1453.397 0.00 25900.00 90.08 179.69 <												
25000.00 90.08 179.69 11582.86 -13833.70 -95.47 13834.01 0.00 25100.00 90.08 179.69 11582.73 -13933.09 -94.33 13934.00 0.00 25200.00 90.08 179.69 11582.46 -14133.69 -94.39 14033.99 0.00 25300.00 90.08 179.69 11582.46 -14133.69 -93.84 14133.99 0.00 25300.00 90.08 179.69 11582.33 -14233.69 -93.30 14233.98 0.00 25500.00 90.08 179.69 11582.07 -1433.69 -92.76 1433.39 0.00 25500.00 90.08 179.69 11582.07 -1433.69 -92.22 14433.97 0.00 25500.00 90.08 179.69 11581.54 -14633.68 -91.68 14533.97 0.00 25600.00 90.08 179.69 11581.54 -14633.68 -90.66 1473.95 0.00 25600.00 90.08 179.69 1												
25100.00 90.08 179.69 11582.73 -13933.69 -94.93 13934.00 0.00 25200.00 90.08 179.69 11582.60 -14033.69 -94.39 14033.99 0.00 25300.00 90.08 179.69 11582.46 -14133.69 -93.34 14133.99 0.00 25400.00 90.08 179.69 11582.33 -14233.69 -93.30 14233.98 0.00 25400.00 90.08 179.69 11582.20 -1433.69 -92.76 1433.39 0.00 25500.00 90.08 179.69 11582.20 -1433.68 -92.27 1433.39 0.00 25500.00 90.08 179.69 11581.20 -1433.68 -91.68 14533.97 0.00 25700.00 90.08 179.69 11581.54 -14633.68 -91.14 14633.95 0.00 25900.00 90.08 179.69 11581.68 +1473.35 0.00 1473.95 0.00 25900.00 90.08 179.69 11581.												
25200.00 90.08 179.69 11582.60 -14033.69 -94.39 14033.99 0.00 25300.00 90.08 179.69 11582.46 -14133.69 -93.84 14133.99 0.00 25400.00 90.08 179.69 11582.33 -14233.69 -93.30 14233.98 0.00 25500.00 90.08 179.69 11582.20 -1433.69 -92.27 14433.98 0.00 25500.00 90.08 179.69 11582.20 -1433.69 -92.27 14433.97 0.00 25500.00 90.08 179.69 11582.20 -1433.68 -90.68 1453.37 0.00 25600.00 90.08 179.69 11581.84 -14633.68 -91.68 1453.37 0.00 25800.00 90.08 179.69 11581.68 -91.76 14533.58 0.00 25900.00 90.08 179.69 11581.68 -91.73 14633.95 0.00 25000.00 90.08 179.69 11581.68 -14733.68 -90												
25400.00 90.08 179.69 11582.33 -1423.69 -93.30 1423.38 0.00 25500.00 90.08 179.69 11582.20 -1433.69 -92.76 1433.39 0.00 25500.00 90.08 179.69 11582.20 -1433.69 -92.76 1433.39 0.00 25500.00 90.08 179.69 11581.54 -1453.68 -91.68 1453.397 0.00 25700.00 90.08 179.69 11581.54 -14633.68 -91.14 14633.95 0.00 25800.00 90.08 179.69 11581.68 -1473.85 0.00 1473.95 0.00 25900.00 90.08 179.69 11581.68 -1473.86 -90.06 1473.95 0.00 26000.00 90.08 179.69 11581.54 -14933.68 -90.06 1483.95 0.00 26100.00 90.08 179.69 11581.41 -14933.68 -89.51 1493.349 0.00 26200.00 90.08 179.69 11581.28 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-94.39</th> <th></th> <th></th> <th></th> <th></th> <th></th>							-94.39					
25500.00 90.08 179.69 11582.20 -14333.69 -92.76 14333.98 0.00 25600.00 90.08 179.69 11582.07 -14433.69 -92.22 14433.97 0.00 25700.00 90.08 179.69 11581.94 -14533.68 -91.64 14533.97 0.00 25800.00 90.08 179.69 11581.81 -14633.68 -91.14 14633.96 0.00 25800.00 90.08 179.69 11581.81 -14633.68 -91.14 14633.96 0.00 25900.00 90.08 179.69 11581.84 -14933.68 -90.60 14733.95 0.00 26000.00 90.08 179.69 11581.54 -14933.68 -89.51 14933.94 0.00 26100.00 90.08 179.69 11581.84 -14933.68 -88.57 14933.94 0.00 26200.00 90.08 179.69 11581.81 -15133.68 -88.43 1503.394 0.00 26300.00 90.08 179.69 <												
25600.00 90.08 179.69 11582.07 -14433.69 -92.22 14433.97 0.00 25700.00 90.08 179.69 11581.94 -14533.68 -91.68 14533.97 0.00 25800.00 90.08 179.69 11581.81 -14633.68 -91.68 14533.97 0.00 25900.00 90.08 179.69 11581.81 -14633.68 -91.14 14633.95 0.00 26000.00 90.08 179.69 11581.54 -14833.68 -90.06 14833.95 0.00 26000.00 90.08 179.69 11581.54 -14933.68 -89.51 14933.95 0.00 26000.00 90.08 179.69 11581.54 -14933.68 -89.51 14933.94 0.00 26200.00 90.08 179.69 11581.81 -15133.68 -88.43 1503.34 0.00 26300.00 90.08 179.69 11581.15 -15133.68 -88.43 15133.93 0.00												
25700.00 90.08 179.69 11581.94 -14533.68 -91.68 14533.97 0.00 25800.00 90.08 179.69 11581.81 -14633.68 -91.14 14633.95 0.00 25800.00 90.08 179.69 11581.68 -1473.35 0.00 26000.00 90.08 179.69 11581.68 -1473.36 -90.06 14833.95 0.00 26000.00 90.08 179.69 11581.54 -14933.68 -90.06 14833.95 0.00 26100.00 90.08 179.69 11581.41 -14933.68 -90.06 14833.95 0.00 26200.00 90.08 179.69 11581.41 -1583.68 -88.71 1593.394 0.00 26300.00 90.08 179.69 11581.15 -15133.68 -88.43 1513.3,93 0.00												
25800.00 90.08 179.69 11581.81 -14633.68 -91.14 14633.96 0.00 25900.00 90.08 179.69 11581.68 -1473.36 -90.60 1473.395 0.00 26000.00 90.08 179.69 11581.54 -14833.66 -90.06 1473.395 0.00 26100.00 90.08 179.69 11581.41 -14933.68 -89.51 14933.394 0.00 26100.00 90.08 179.69 11581.41 -14933.68 -88.71 14933.394 0.00 26200.00 90.08 179.69 11581.28 -1503.368 -88.71 1503.394 0.00 26300.00 90.08 179.69 11581.15 -15133.68 -88.43 15133.93 0.00												
25900.00 90.08 179.69 11581.68 -14733.68 -90.60 14733.95 0.00 26000.00 90.08 179.69 11581.54 -14833.68 -90.06 14833.95 0.00 26100.00 90.08 179.69 11581.54 -14933.68 -89.51 14933.94 0.00 26200.00 90.08 179.69 11581.28 -15033.68 -88.97 15033.94 0.00 26200.00 90.08 179.69 11581.28 -15033.68 -88.97 15033.94 0.00 26300.00 90.08 179.69 11581.15 -15133.68 -88.43 15133.93 0.00												
26100.00 90.08 179.69 11581.41 -14933.68 -89.51 14933.94 0.00 26200.00 90.08 179.69 11581.28 -15033.68 -88.97 15033.94 0.00 26300.00 90.08 179.69 11581.15 -15133.68 -88.43 15133.93 0.00		25900.00		179.69	11581.68	-14733.68	-90.60	14733.95				
26200.00 90.08 179.69 11581.28 -15033.68 -88.97 15033.94 0.00 26300.00 90.08 179.69 11581.15 -15133.68 -88.43 15133.93 0.00												
26300.00 90.08 179.69 11581.15 -15133.68 -88.43 15133.93 0.00												

•

		County: Wellbore:			n 628H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)		(°/100ft)	Comment
	26500.00 26600.00	90.08 90.08	179.69 179.69	11580.89 11580.76		-87.35 -86.81	15333.92 15433.91	0.00 0.00	
	26700.00	90.08	179.69	11580.63		-86.27	15533.91	0.00	
	26800.00	90.08	179.69	11580.49		-85.72	15633.90	0.00	
	26900.00	90.08	179.69	11580.36		-85.18	15733.90	0.00	
	27000.00	90.08	179.69	11580.23		-84.64	15833.89	0.00	
	27080.78 27100.00	90.08 90.08	179.69 179.69	11580.13 11580.10		-84.20 -84.10	15914.66 15933.88	0.00 0.00	Exit
	27160.00	90.08	179.69	11580.00		-83.81	15995.00	0.00	BHL

.



13-5/8" 5 M BOPE & Closed Loop

A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using 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.

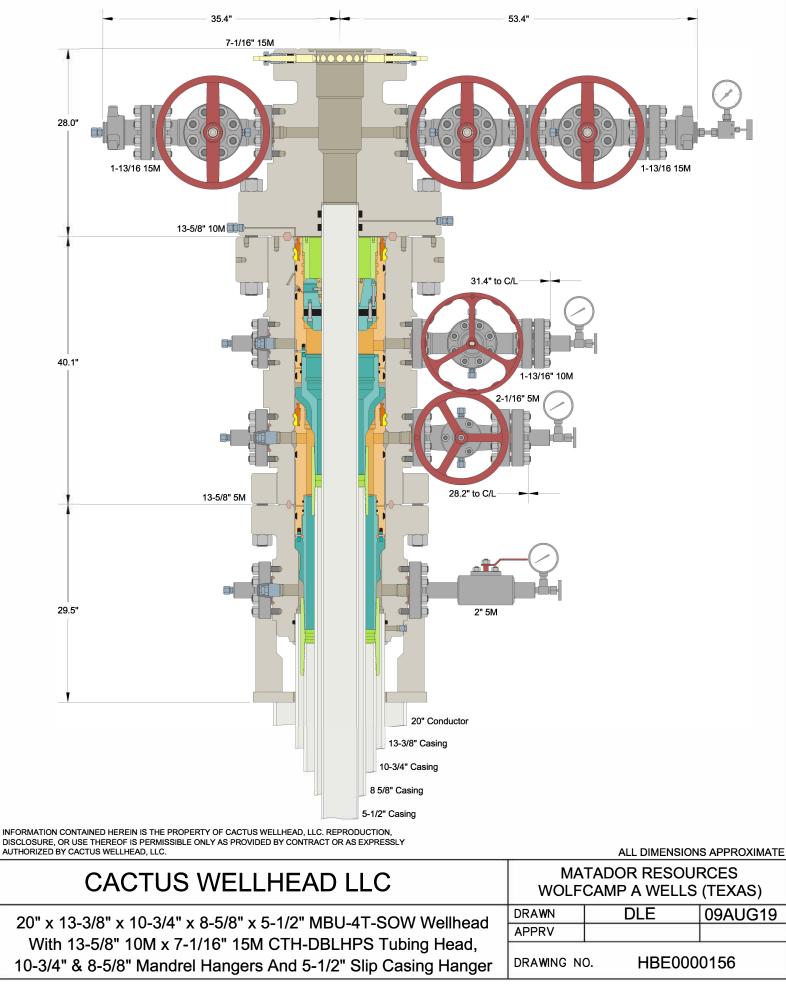
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.



Released to Imaging: 9/26/2024 1:59:42 PM

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM0405444
LOCATION:	Section 10, T.23 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico
Sundry ID:	N/A

WELL NAME & NO.:	Maldives 15-27 Fed Com 338H
SURFACE HOLE FOOTAGE:	165'/S & 760'/E
BOTTOM HOLE FOOTAGE	20'/S & 330'/E

WELL NAME & NO.:	Maldives 15-27 Fed Com 628H
SURFACE HOLE FOOTAGE:	165'/S & 820'/E
BOTTOM HOLE FOOTAGE	20'/S & 990'/E

WELL NAME & NO.:	Maldives 15-27 Fed Com 718H
SURFACE HOLE FOOTAGE:	165'/S & 790'/E
BOTTOM HOLE FOOTAGE	20'/S & 530'/E

COA

H2S	C Yes	🖸 No	
Potash	🖸 None	C Secretary	🖸 R-111-P
Cave/Karst Potential	🖸 Low	🖸 Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	🖸 None	🖸 Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	🖸 Both
Wellhead Variance	Diverter		
Other	4 String	Capitan Reef	□ WIPP
Other	Fluid Filled	🗖 Pilot Hole	Open Annulus
Cementing	Cement Squeeze	EchoMeter	
Special Requirements	Water Disposal	COM	🗖 Unit
Special Requirements	Break Testing	□ Offline	
Variance		Cementing	

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

- 1. The 13-3/8 inch surface casing shall be set at approximately 725 feet (a minimum of 70 feet (Eddy 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 <u>24 hours in the Potash Area</u> 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.
- 2. The minimum required fill of cement behind the 10-3/4 inch intermediate casing 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 <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.

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

- 3. The minimum required fill of cement behind the 8-5/8 inch intermediate casing 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.

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. <u>Operator must run a CBL from TD of the 8-5/8" casing to surface.</u> <u>Submit results to the BLM.</u>

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **500 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.

Option 1:

- a. 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.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4** intermediate casing shoe shall be **5000 (5M)** psi.
- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch 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.
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- ii. 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.
- iii. Manufacturer representative shall install the test plug for the initial BOP test.
- iv. 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.
- v. 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.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

Approval Date: 08/30/2024

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)
 689-5981
- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.



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

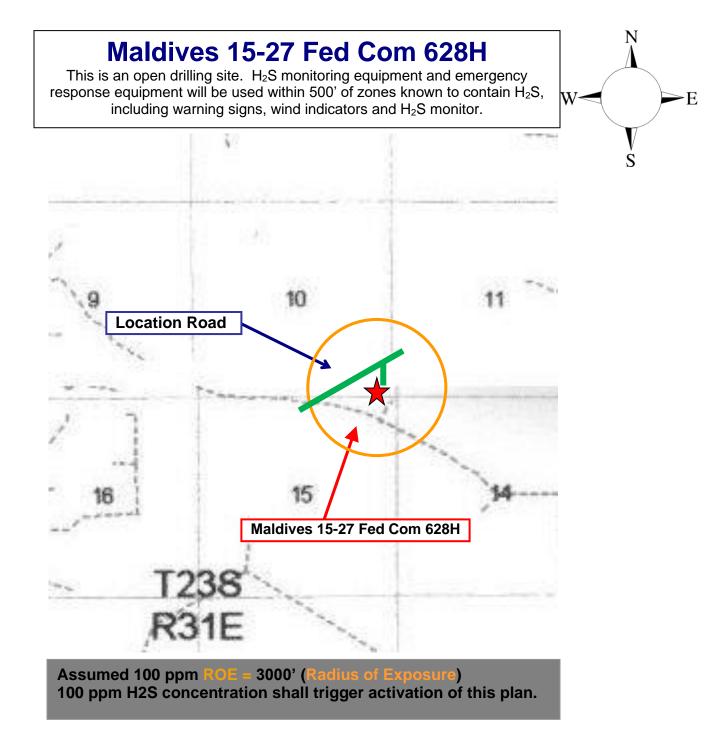
Hydrogen Sulfide (H₂S) Contingency Plan

For

Maldives 15-27 Fed Com 628H

Sec-10 T-23S R-31E 165' FSL & 820' FEL LAT. = 32.3121986' N (NAD83) LONG = 103.7597774' W

Eddy 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. <u>There are no homes or buildings in or near the ROE</u>.

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
 - \circ 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

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal	
Name	Formula	Gravity	Limit		Concentration	
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm	
Sulfur	50-	2.21	2	N/A	1000 nnm	
Dioxide	SO ₂	Air = 1	2 ppm		1000 ppm	

Characteristics of H₂S and SO₂

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 H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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.

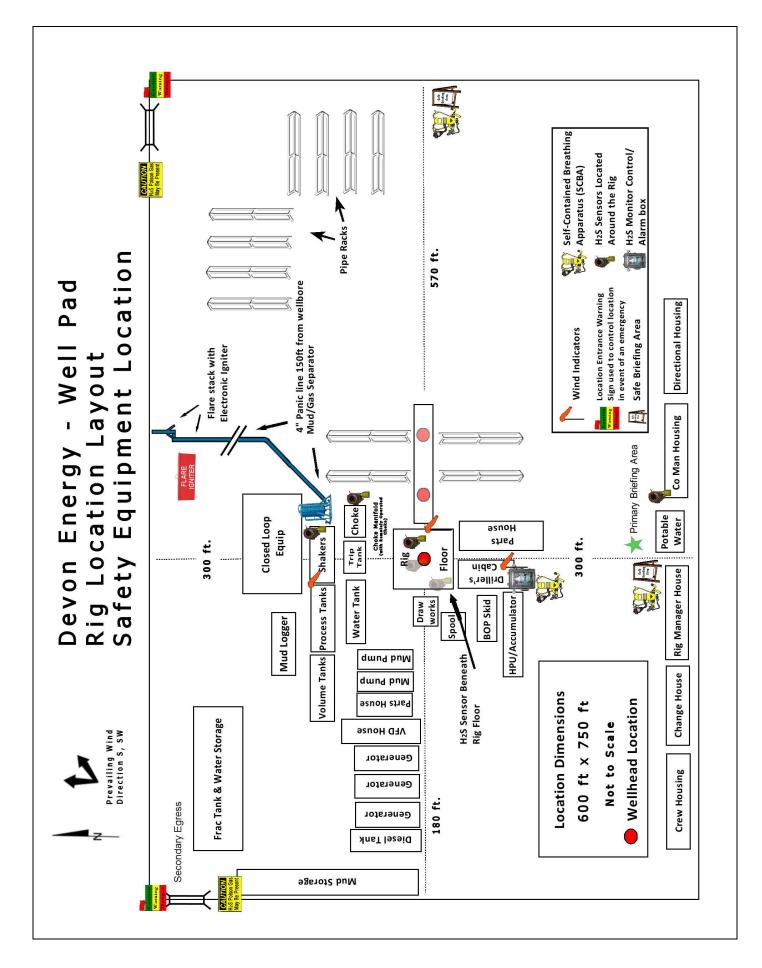
Devon Er	nergy Corp. Company Call List	
Drilling Su	ipervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
Agency	v Call List	
Lea	Hobbs	
<u>County</u>	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's 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
Eddy	Carlsbad	
<u>County</u> (575)	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	()
	For Oil Spills	(703) 872-6000 (800) 280-7118
		(800) 280-7118
	Emergency Services	(004) 704 4700
	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 (TX & NM)	(800) 642-7828
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	

Prepared in conjunction with Dave Small





.



District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

Page 51 of 51

CONDITIONS

Action 382177

CONDITIONS

Operator:	OGRID:	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	382177	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/26/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/26/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/26/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/26/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/26/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/26/2024
ward.rikala	Operator must comply with all R-111-Q requirements.	9/26/2024