District 1 1625 N. French Dr., Hobts, NM 58240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. Fust St., Artesia, NM 58210 Phone: (575) 748-7283 Fax: (575) 748-9720 <u>District III</u> 1600 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505			Energ	gy, Min OIL	State of New Mexico F Minerals & Natural Resources Department Revised Aug DIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 JUL 2 5 2019 AMENDER					Form C-102 sed August 1, 2011 copy to appropriate District Office IENDED REPORT	
		Ŋ	/ELL LC	CATI	ON AND	ACR		SHON PL	ATESIA().C.D.	
30-01	PI Numbe	5.38	4 3	² Pool C 3840				³ Pool Name CH: BONESPRING			
^{Property Col 32590}	ode 7			⁵ Property Name MALDIVES 15-27 FED COM					5	⁶ Well Number 232H	
⁷ OGRID N 6137	Q.		^{Operator Name} DEVON ENERGY PRODUCTION COMPANY, L.P.						' Elevation 3387.8		
					" Su	rface	Location				
UL or lot no. D	Section 15	Township 23 S	Range 31 E	Lot Idn	Feet from	the	North/South line NORTH	Feet from the 810	East/W	est line ST	County EDDY
" Bottom Hole Location If Different From Surface						·					
UL or lot no.	Section	Township	hip Range Lot Idn Feet fro			the	North/South line	Feet from the	East/W	est line	County
N	27	23 S	31 E		20 SOUTH 1360 WEST EDDY					EDDY	
" Dedicated Acres 960	Joint U	or Infill	⁴ Consolidation	n Code				¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

MT 237 43 T 2647 31 17 +187 35 43 T 2644 60 FT	" OPERATOR CERTIFICATION
NH CORNER SEC. 15 N/4 CORNER SEC. 15 NE CORN LAT. = 32.31173754 1810 IAT. = 32.3117422N F LAT. = 3	IPR SEC. 15 23117463N I hereby certify that the information contained herein is true and complete to the
LONG. = 101.77423107W g SURFACE LONG 103/76568027W R LONG	103.7571237#
N = 477592.96 M = 8 + H = 427698.46 H = 477698.46 H = 477698.46	S1 (r1) S24.13 No An
	22.72 betan bule keysteen as here a sink to doll this well at this besteen any one proposition
$LAT_{x} = 32.3044810TR g [ELEV. = 3387.8']$	
NUSP EAST (FT) LONG. = 103.7716489W NUSP EA	IST. (FT)
$H = 47495303 \le 101MSP EAST (FT)$ $E = 714080.43 \ge 10 = 477197.83$ SEC 16 $Z = 719$	984.45 volumary proving agreement or a computiony proving order neralijore entered
	by the division.
3 FIRST TAKE POINT 3 1100' FNL, 1360' FWL	Conner +00003-18-2019
SECTION CORNER THAT J2.1114652'N	CORNER 12.29723171N Date
LONG 103.7742201W source sature service and service	103.7571232YW
H = 472312.10 K LAT. = 352972277N K = 472	JENNY HARMS
	Primed Name
	IENINY HARMSODVIN COM
W/4 CORNER SEC. 22 5	RIER SEC. 22 E-mail Address
LONG = 103.7742195W 2 5EE 22 10HC -	32.2899722'K 103.7571228W
NUSP EAST (FT) N = 469670.75 C	ST (FT)
2 # 714109.60 F	139274 "SURVEIOR CERTIFICATION
	Thereby certify that the well location shown on this plat was
	plotted from field notes of actual surveys made by me or under
LAT. = 32.2826993N 8 N * 657045.53 8 LAT. *	32,2827133N 103,7571239W nny supervision, and that the same is true and correct to the
NMSP EAST (FT) - 7840.74 FT - 2841.08 FT - NMSP EAST	AST (IT) here of my holiat
$N = \frac{16}{10} \frac{10}{10} \frac{10}{10}$ E = 714125.44 m	H05.62
	FEBRUARY 25.2019
BOTTOH OF HOLE LAST TAKE POINT	Date of Survey
LAT. = 32.254407N BILCHG. = 103.76980801 LAT. = 32.2685394N B. LAT. =	RHER SEC. 27 32.27545047N
NNSP EASI (FT) (II = 461775.85 (FT) 100.7698080 W LONG = 100.769800 W LONG = 100.7698080 W LONG = 100.76980800 W LONG = 100.76980800 W LONG = 1000.769800 W	1017571220W
H = 464383 47 E E = 715514.38 E H = 464 E = 714140.10 5	419.95
SW CORNER SEC. 27	NER SEC. 27
LAT. = 32.2681825N = + + + + + + + + + + + + + + + + + +	32.268 1897 N 103.7571227 n
NUSP EAST (FT) BOTTOM B HUSP EAST (FT) B NUSP E	AST (FT) Pertificate Number: ATLIMONIE TARAMILLO, PLS 12797
E = 714154.81	SURVEY NO. 5293A
2024014 WT264043 FT 24340 00 W 2641.30 FT	

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY PRODUCTION COMPANY LP
LEASE NO.:	NMNM0405444
WELL NAME & NO.:	232H- MALDIVES 15-27 FED COM
SURFACE HOLE FOOTAGE:	400'/N & 540'/W
BOTTOM HOLE FOOTAGE	2350'/N & 650'/W
LOCATION:	Section.15.,T23S., R.31E., NMP
COUNTY:	EDDY County, New Mexico



H2S	C Yes	· No	
Potash		© Secretary	C R-111-P
Cave/Karst Potential	6 Low	C Medium	C High
Variance	C None	Flex Hose	Other
Wellhead	Conventional	C Multibowl	🕫 Both
Other	□ □ 4 String Area	Capitan Reef	F WIPP
Other	Fluid Filled	Cement Squeeze	
Special Requirements	☐ Water Disposal	COM	□ Unit

All Previous COAs Still Apply

A. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 608 feet (a minimum of 25 feet 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 24 hours in the Potash Area or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing shall be set at approximately 6000 feet is:

Option 1 (Single Stage):

• 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.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

B. 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 intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201. During office hours call (575) 627-0272. After office hours call (575)
 - Eddy County

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

- Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

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1. Geologic Formations

TVD of target	10330	Pilot hole depth	N/A
MD at TD:	25890	Deepest expected fresh water	

Basin

,

The second s	Depth .	Water/Mineral	
Formation	(FVD)	Bearing/Target	- Hazards*
	from KB	Zone?	
Rustler	549		
Salado	919		
Base of Salt	4021		
Delaware	4249		
Bell Canyon	4289		
Cherry Canyon	5169		
Brushy Canyon	6454		
Lower Brushy	7829		
1BSLM	8159		
BONE SPRING 2ND	9719		
BONE SPRING 3RD	10997		
-			
			·

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

Hole Size	Casing	Casing Interval		Wt	C	Min SF	Min SF	Min SF	
Hole Size	From	То	Csg. Size	(PPF)	Grade	Conn	Collapse	Burst	Tension
17 1/2	0	574 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	6000 TVD	9 5/8	40.0	J-55	BTC	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
				BLM M	linimum Safe	ety Factor	1.125	1	1.6 Dry 1.8 Wet

2. Casing Program

D=25889)=10330

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

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.

• Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.

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

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specificition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading	v
assumptions, casing design criteria).	I .
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	v
of the casing?	1
	10
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N.
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	·
	an the second
Is well located in high Cave/Karst?	Ν
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
	新·印度電子通
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

- In Secretary Potash

Casing	# Sks	х тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry/Description
Surface	454	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	679	Surf	9.0	3.3	Lead: Class C Cement + additives
1 11t	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
	174	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	446	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	679	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	366	500' tieback	9.0	3.3	Lead: Class H /C + additives
Floadçuon	3106	KOP	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (3-String 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. Enough 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 *Cement for* primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the *500'* tie bac primary job.

Casing String	Excess
Surface	50%
Intermediate	30%
Production	10%

excess.

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6K	
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4. Pressure Control Equipment (Three String Design)

4. Pressure Control Equipment (Thi	ree String D	esign)				
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	у <u>ре</u>) (Lesser	Testedito
			Anı	nular	x	50% of rated working pressure
Int 1	13-58"	514	Bline	l Ram	X	
1111 1	13-38	5101	Pipe	Ram		
			Doub	Double Ram		Į VI Ç
			Other*		1	
			Annular		X	50% of rated working pressure
Production	12 5/9"	5M	Blind Ram		X	5M
Todaction	13-5/0		Pipe Ram			
			Double Ram		X	
			Other*			· · · · · · · · · · · · · · · · · · ·
			Annul	ar (5M)		
			Blind Ram Pipe Ram Double Ram		l	
						1
					1	1
			Other*			

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5. Mud Program (Three String Design)

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

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

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 Report and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additions	il logs planned	Interval
	Resistivity	
	Density	
Х	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfly what type and where?
BH pressure at deepest TVD	4834
Abnormal temperature	No

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

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

 N
 H2S is present

 Y
 H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments

X Directional Plan Other, describe



WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 15-T23S-R31E Maldives 15-27 Fed Com 232H

Wellbore #1

Plan: Permit Plan 2

Standard Planning Report - Geographic

14 March, 2019

Database Companyi Project Site: Well: Wellbore: Design:	EDM r5000. WCDSC Per Eddy County Sec 15-T233 Maldives 15 Wellbore #1 Permit Plan	141_Prod US mian NM ((NAD 83 NM Eas S-R31E -27 Fed Com 232F 2	item)	Local Co-orr TVD Referen MD Referen North Refer Survey Calc	linate Referenc ce e: nce: Jation:Method	e Well RKB RKB Grid Minir	Maldives 15-27 @ 3412.50ft @ 3412.50ft num Curvature	Fed Com 232H
Project Map System: Geo Datum: Map Zone:	US State Plane North American New Mexico Ea	(NAD 83 NM East e 1983 n Datum 1983 astern Zone	em)	System Datur	<u></u>	Mean S	Sea Level	
Site Position: From: Position Uncertainty	⁷ Sec 15-Т23S Мар :	R31E N E 0.00 ft S	lorthing: asting: lot Radius:	477,59 714,06	2.96 usft Lat 4.76 usft Lor 13-3/16 " Gri	itude: ngitude: d Convergence	:	32.311738 -103.774231 0.30 °
Well Well Position Position Uncertainty	Maldives 15-2 +N/-S +E/-W	7 Fed Com 232H 0.00 ft 0.00 ft 0.50 ft	Northing: Easting: Wellhead Eleva	tion:	477,197,83 usfi 714,876.95 usfi	t Latitude t Longitu Ground	: de: Level:	32.310640 -103.771609 3,387.80 ft
Weilbore Magnetics	Wellbore #1 Model:Na IG	ime S RF2015	ampie Date 4/5/2018	Declinatio	n 6.97	Dip Angle	60.10	Field Strength (n1) 47,886,37940923
Design Audit Notes: Version: Vertical Section:	Permit Plan 2	- Depth Fro (t) 0.0	Phase: I n (TVD)	PROTOTYPE +N/-S (ft) 0.00	Tie On +E/-W- (ff) 0.00	Depth:	0.0 Diřectí (†) 180.9	0 ŏn
Plan Survey Tool Pro Depth From (n) 1 0.00	ogram Depth To (ft) 25,889.54	Date 3/14/20 Survey (Wellbor Permit Plan 2 (W	9)) ellbore #1)	Tool Name MWD+IFR1 OWSG MWD +	FR1	emarks		
Plan Sections Measured Depth Incli	nation Azin (1)	Vertical Dêpth) (ft)	+n/:S (ft)	+EJ-W . (ft)	Dogleg Rate /100usft) (*/	Build Rate 100usft) (?/(Turn Rate Oousft)	TFO {*) Target
0.00 2,700.00 3,299.59 9,040.50 9,440.23 9,790.27 10,690.27 25,889.54	0.00 0.00 6.00 0.00 0.00 90.00 90.00	0.00 0 0.00 2,700 57.53 3.298 57.53 9,008 0.00 9,407 0.00 9,757 179.68 10,330 179.68 10,330	00 0.00 .00 0.00 .50 16.83 .00 338.78 .00 350.00 .04 350.00 .00 -222.95 .00 -15,421.98	0.00 0.00 26.44 532.37 550.00 550.00 553.18 637.43	0.00 0.00 1.00 1.50 0.00 10.00 0.00	0.00 0.00 1.00 0.00 -1.50 0.00 10.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 57.53 0.00 180.00 0.00 179.68 PBHL - Maldives 15-2 0.00 PBHL - Maldives 15-2

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Database: EDM r5000.141_Prod US Company: WCDSC Permian NM Project: Eddy County (NAD 83 NM Eastern) Site: Sec 15-T23S-R31E Well: Maldives 15-27 Fed Com 232H Wellbore: Wellbore #1 Design: Permit Plan 2	Local Co-ordinate Reference TVD Reference MD Reference North Reference Survey Calculation Method:	Well Maldives 15-27 Fed Com 232H RKB @ 3412.50ft RKB @ 3412.50ft Grid Minimum Curvature	
Planned Survey Measured Depth Inclination Azimuth Depth +N/-S	Map Map Map		

- Depth i	nclination	Azimuth	Depth	+N/-S	+E/-W	- i Northing	Easting		
(t)	: (?)	(?)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	477 407 99	714 970 05	1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 -	100 774000
100.00	0.00	0.00	100.00	0.00	0.00	477 107 92	714,070,90	32,310640	-103.771609
200.00	0.00	0.00	200.00	0.00	0.00	477 107 82	714,070,95	32.310040	-103.771609
300.00	0.00	0,00	300.00	0.00	0.00	477 197 83	714,876.95	32.310040	-103.771609
400.00	0.00	0.00	400.00	0.00	0.00	477 197 83	714,070.35	32.310040	-103 77 1009
500 00	0.00	0.00	500.00	0.00	0.00	477 197 83	714 876 95	32,310640	103 771600
600.00	0.00	0.00	600.00	0.00	0.00	477 197 83	714 876 95	32 310640	103 771609
700.00	0.00	0.00	700.00	0.00	0.00	477 197 83	714 876 95	32 310640	-103 771609
800.00	0.00	0.00	800.00	0 00	0.00	477 197 83	714 876 95	32 310640	-103 771609
900.00	0.00	0:00	900.00	0.00	0.00	477 197 83	714 876 95	32 310640	-103 771609
1.000.00	0.00	0.00	1 000 00	0.00	0.00	477 197 83	714 876 95	32,310640	-103 771609
1,100.00	0.00	Ö:00	1 100 00	0.00	0.00	477 197 83	714 876 95	32,310640	-103 771609
1,200,00	0.00	0.00	1,200,00	0.00	0.00	477 197 83	714 876 95	32 310640	-103 771609
1.300.00	0.00	0.00	1.300.00	0.00	0.00	477,197,83	714 876 95	32 310640	-103 77 1609
1,400.00	0.00	0.00	1,400.00	0.00	0.00	477,197,83	714 876 95	32 310640	-103 771609
1,500,00	0.00	0.00	1,500.00	0.00	0.00	477.197.83	714.876.95	32 310640	-103 771609
1,600,00	0,00	0.00	1,600,00	0.00	0.00	477,197,83	714.876.95	32,310640	-103 77 1609
1,700.00	0.00	0.00	1,700.00	0.00	0.00	477,197.83	714.876.95	32,310640	-103,771609
1,800.00	0.00	0.00	1,800.00	0.00	0.00	477,197.83	714,876.95	32,310640	-103,771609
1,900.00	0.00	0.00	1,900.00	0.00	0.00	477,197.83	714,876,95	32.310640	-103,771609
2,000.00	0,00	0,00	2,000.00	0.00	0.00	477,197.83	714,876.95	32,310640	-103,771609
2,100.00	0.00	0.00	2,100.00	0.00	0,00	477,197.83	714,876.95	32,310640	-103.771609
2,200.00	0.00	0.00	2,200.00	0,00	0.00	477;197.83	714,876.95	32.310640	-103,771609
2,300.00	0.00	0.00	2,300.00	0.00	0.00	477,197,83	714,876.95	32,310640	-103.771609
2:400.00	0.00	0.00	2,400.00	0.00	0,00	477,197.83	714,876.95	32,310640	-103 77 1609
2,500.00	0.00	0.00	2,500.00	0.00	0.00	477,197.83	714,876.95	32,310640	-103,771609
2,600.00	0.00	0.00	2,600.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
2,700.00	0.00	0.00	2,700.00	0,00	0.00	477,197,83	714,876,95	32,310640	-103,771609
2,800.00	1.00	57,53	2,799.99	0.47	0.74	477,198.30	714,877.68	32,310641	-103,771607
2,900.00	2.00	57.53	2,899.96	1.87	2.94	477,199.70	714,879.89	32,310645	-103,771600
3,000.00	3.00	57.53	2,999.86	4.22	6.62	477,202.05	714,883.57	32,310651	-103.771588
3,100.00	4.00	57.53	3,099.68	7.49	11.77 [.]	477,205.32	714,888.72	32.310660	-103.771571
3,200.00	5.00	57,53	3,199,37	11.71	18,39	477,209.54	714,895.34	32,310672	-103,771549
3,299,59	6.00	57,53	3,298.50	16.83	26.44	477,214.66	714,903.39	32,310686	-103,771523
3,300.00	6.00	57,53	3,298.90	16.85	26.48	477,214,68	714,903,43	32.310686	-103.771523
3,400.00	6.00	57.53	3,398.36	22.46	35.29	477,220.29	714,912,24	32.310701	-103.771495
3,500.00	6,00	57.53	3,497,81	28.07	44.11	477,225,90	714,921.05	32,310716	-103.771466
3,600,00	6.00	57.53	3,597.26	33.68	52,92	477,231,51	714,929,86	32,310732	-103 771437
3,700.00	6,00	57.53	3,696.72	39.28	61,73	477,237.11	714,938.68	32.310747	-103.771409
3,800.00	6.00	57.53	3,796.17	44.89	70.54	477,242.72	714,947,49	32.310762	-103.771380
3,900.00	6.00	57.53	3,895.62	50.50	79.36	477,248.33	714,956,30	32,310777	-103.771351
4,000.00	6.00	57.53	3,995.07	56,11	88.17	477,253.94	714,965.11	32.310793	-103.771323
4,100.00	6,00	57.53	4,094,53	61,72	96.98	477,259.55	714,973,93	32.310808	-103.771294
4,200,00	6,00	57.53	4,193,98	67.32	105.79	477,265.15	/14,982.74	32,310823	-103.771266
4,300,00	6,00	57,53	4,293,43	72.93	114.61	477,270.76	/14,991.55	32,310839	-103.771237
4,400,00	.6,00	57,53	4,392,89	/8.54	123.42	477,276.37	715,000,37	32,310854	-103.771208
4,500.00	6,00	57.53	4,492.34	84.15	132.23	477,281,98	/15,009.18	32.310869	-103.//1180
4,600,00	6.00	57.53	4,591.79	69./6	141.04	477,287.59	/15,017:99	32.310884	-103.//1151
4,700.00	6.00	57,53	4,691,25	95,36	149.86	477,293,19	/15,026,80	32,310900	-103.771122
4,800.00	6.00	57,53	4,/90./0	100.97	158.67	477,298,80	715,035,62	32,310915	-103.//1094
4,900.00	0.00	57.53	4,030,15	110.58	10/.48	477,304.41	7 15,044.43	32.310930	-103.771065
5,000.00	6,00	57.53	4,969.60	112,19	176,30	477,310.02	715,053,24	32.310946	-103.771037
5,100,00	6,00	0/,03 E7 E9	5,009,00	117,80	105,11	477,315,63	715,062,05	32,310961	-103.771008
5,200,00	6.00	57,53	5,168,53	123.40	193,92	477,321.23	715,070,87	32.3709/6	-103.//09/9
5,300.00	.6.00	57.53	5,287.96	129.01	202,73	477,326.84	/15,079.68	32,310992	-103.770951

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4. 17. 2. 4. Database: Company: Project: Site: Well: Weilbore: Weilbore #1 Design: Permit Plan 2

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Planned Survey

EDM r5000.141_Prod US WCDSC Permian NM Eddy County (NAD 83 NM Eastern) Sec 15-T23S-R31E Maldives 15-27 Fed Com 232H

143 B.

2.21

Local Co-ordinate Reference: Well Maldives 15-27 Fed Com 232H TVD Reference: RKB @ 3412.50ft MD Reference: RKB @ 3412.50ft Survey Calculation Method: Grid Minimum Curvature

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Pla	nned Survey		and a second	un ang ang ang ang ang ang ang ang ang an	, , , , , , , , , , , , , , , , , , ,	ینیو بر بر بو سو و در دم. بوری در مهمده و ادر د	and the party sector of the se	مانه مستقادهان می باد (با را با مان در از مین در این می مراد از مراد م مانه و می مراد (باری (بای مانه میشود مارد با موسومات را م	n an an an ann an an an an an an an an a	
	Measured			Vertical			Map	Map		م میں اور کی میں اور
	Lepth	Inclination	Azimuth	, Depth	+N/-S	+E/-W	Northing	Easting ,		an a
1. 1. ¹ .	CARLER .	ા છે.	`\] () {} *	in in the second s		(11)	(USII)	(USΠ)	Latitude	Longitude
	5,400.00	6,00	57.53	5,387.42	134,62	211.55	477,332,45	715,088.49	32.311007	-103.770922
	5,500.00	6.00	57.53	5,486.87	140.23	220.36	477,338.06	715,097.30	32.311022	-103.770894
	5,600.00	6,00	57.53	5,586.32	145.84	229.17	477,343.67	715,106.12	32.311037	-103.770865
	5,700.00	6.00	57.53	5,685.77	151.44	237.98	477,349,27	715,114.93	32.311053	-103.770836
	5,800,00	6.00	57.53	5,785.23	157.05	246.80	477,354.88	715,123.74	32.311068	-103.770808
	5,900.00	6.00	57.53	5,884.68	162.66	255.61	477,350.49	715,132.55	32.311083	-103.770779
	6,000.00	6.00	57.53	5,984,13	168.27	264.42	4/7,366,10	715,141.37	32.311099	-103.770750
	6,100.00	6.00	57.53	6 192 04	170.49	2/3.23	4/7,3/1,/1	715,150,18	32,311114	-103.770722
1	6,200.00	6.00	57.53	6 393 40	175.40	202.05	477,377,31	715,158,99	32,311129	-103.770693
	6,300.00	6.00	57.53	6 281 05	100.09	290.00	4/1,302.92	715,167.61	32.311144	-103.770665
	6 500 00	00.0	57.53	6 481 40	196.70	299.07	477,300.33	715 185 42	32.311100	-103.770636
1	6,500.00	6.00	57.53	6 580 85	201 02	317 30	4/1,354.14	715,100,40	32,311173	-103.770607
l	6 700 00	6.00	57.53	6 680 30	201.92	376.11	477,399.75	715,194,24	32,311190	-103,770579
[6 800 00	6.00	57 53	6 779 76	213 13	334 92	477 410 98	715,203,00	32.311200	-103.770530
	6 900 00	6.00	57 53	6 879 21	218.70	343 74	477 416 57	715 220 68	32.311221	-103.770/021
	7.000.00	6.00	57.53	6.978.66	224.35	352 55	477 422 18	715 229 49	32,311251	-103.770493
	7,100.00	6.00	57.53	7.078.12	229.96	361 36	477 427 79	715 238 31	32 311267	-103 770436
	7.200.00	6.00	57.53	7.177.57	235.57	370.17	477,433,40	715 247 12	32 311282	-103 770407
	7,300,00	6,00	57.53	7.277.02	241.17	378.99	477.439.00	715.255.93	32.311297	-103 770378
1	7,400,00	6.00	57.53	7.376.47	246.78	387.80	477.444.61	715.264.74	32.311313	-103.770350
	7,500.00	6.00	57.53	7,475.93	252.39	396.61	477,450.22	715,273,56	32,311328	-103.770321
	7,600.00	6.00	57.53	7,575.38	258.00	405,42	477,455,83	715,282.37	32.311343	-103.770292
1	7,700.00	6.00	57.53	7,674.83	263.61	414.24	477,461.44	715,291.18	32.311358	-103.770264
1	7,800.00	6.00	57.53	7,774.29	269.21	423.05	477,467.04	715,299,99	32,311374	-103.770235
	7,900.00	6.00	57.53	7,873.74	274.82	431.86	477,472.65	715,308.81	32.311389	-103.770207
	8,000.00	6,00	57.53	7,973.19	280,43	440.67	477,478.26	715,317.62	32.311404	-103.770178
	8,100.00	6.00	57.53	8,072.65	286.04	449,49	477,483,87	715,326.43	32,311420	-103.770149
	8,200.00	6.00	57.53	8,172.10	291.65	458.30	477,489.48	715,335.25	32.311435	-103.770121
[8,300.00	6.00	57,53	8,271.55	297,25	467.11	477,495.08	715,344.06	32,311450	-103,770092
	8,400.00	6.00	57.53	8,371.00	302,86	475.93	477,500.69	715,352.87	32,311465	-103.770064
	8,500.00	6.00	57.53	8,470.46	308,47	484.74	477,506.30	715,361,68	32.311481	-103.770035
[8,600.00	6.00	57.53	8,569.91	314.08	493.55	477,511.91	715,370,50	32.311496	-103.770006
1	8,700.00	6.00	57.53	8,669.36	319,69	502,36	477,517,52	715,379.31	32.311511	-103,769978
1	8,800.00	6.00	57.53	8,768.82	325,29	511,18	477;523.12	715,388.12	32.311527	-103.769949
	8,900.00	6.00	57.53	8,868.27	330.90	519.99	477,528.73	715,396,93	32.311542	-103.769920
	9,000.00	6.00	57.53	8,967.72	336.51	528,80	477,534.34	715,405,75	32.311557	-103.769892
	9,040.50	6.00	57,53	9,008.00	338,78	532.37	4/7,536.61	715,409,32	32,311563	-103.769880
	9,100.00	5,10	57,53	9,007.22	341.07	537.22	4/1,539.70	715,414,17	32.311572	-103.769864
	9,200.00	3.60	57.53	9,100.93	345.95	543.03	4/1,043.16	/ 10,420.5/	32.311563	-103.769844
1	9,300.00	2.10	57.55	9,200.00	340,02	547.03	477,540,45	715,424,77	32,311590	-103,769830
	9,400,00	0.00	0.00	9,000,17	349.09	549.02	477 547.72	715,420.77	32,311534	-103.709024
	9,440.23	0.00	0.00	9,407.00	350.00	550.00	411,041.00	715,420.94	32.311594	-103.769823
	9,000,00	0.00	0.00	9 566 77	350.00	550.00	477,547,63	715,420.94	32.311594	-103.709023
	9,000,00	0,00	0.00	9,500.77	350.00	550.00	477 547 82	715,420,54	22.311504	-103,709023
	9 700 27	0.00	0.00	9,000.77 9,757 04	350.00	550.00	477 647 82	715 420.34	32 311554	-103.709023
	VOD @ 0	700 MP COT	0.00	0,101.04 M	000.00	000.00	50,1 10 ,117	110,720.04	JZ.J 1 J 34	-103.109823
	KUP (@ 9	190° MD, 50°	TNL, 1360" FV	0 766 77	240.00	550.00	A77 EA7 75	745 400 05	20 244504	100 700000
	9,000.00	0.97 10 07	170 60	3,100.11	349,92 330 ED	550.00	4/1,04/./0	715 427 00	32,311594	-103,769823
	10 000 00	20.07	170 69	0,000,10	312 04	550.00	411,001,00	715 427.00	32,311000	-103,/09823
	10 031 49	20.37	170 69	9,002.12	300.00	550.21	A77 A07 97	715 407 00	32.311430	-103.703023
	ETD @ 44	27.12 10241 MD 404	170.00	0,001,10 E14/1	000.00	000.20	-11,-101,00	1 10,721.22	92.011400	-103.703023
	10,100,00	1031 MD, 100	7 FNL, 1360'	10.051.00	000 00	FÉO 45	177 100 10	745 407 40	20.244200	100 700000
L	10,100.00	30.97	1/9,00	10,051,90	200.30	220,45	47.1.405.13	/10,427,40	32,311369	-103,769823

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EDM r5000.141_Prod US WCDSC Permian NM Project: Eddy County (NAD 83 NM Eastern) Sec 15-T23S-R31E Site: Maldives 15-27 Fed Com 232H Wellbore: Design: Wellbore #1 Permit Plan 2

Database:

Company:

Well:

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MD Reference: North Reference: North Reference: Survey Calculation Method: 301

Local Co-ordinate Reference: Well Maldives 15-27 Fed Com 232H Sec. RKB @ 3412.50ft Grid Minimum Curvature

Herric D	Planned Survey			Transformer and a		e statistic	and the second secon	ning and a second s		te de la compañía de Esta de la compañía de
Option Action of the constraint of the const	Maasurad			Vertical						
P1 D P1 P1 P1 P1 P1 Longits 10.200.00 40.97 175.66 10.132.73 200.44 550.76 477.407.47 715.427.72 22.311206 1.103.768223 10.400.00 60.97 177.66 10.284.03 550.66 551.16 477.252.89 715.428.51 22.310753 1.103.768223 10.600.00 80.97 177.56 10.284.03 552.66 477.044.78 715.426.02 22.310266 1.103.768223 10.600.00 80.97 175.68 10.330.00 -22.25 653.31 476.965.16 715.44.80 171.64.80 1.03.768223 10.600.00 90.00 176.85 10.330.00 -32.26 553.30 476.965.16 716.44.29 22.309992 1.03.769822 11.000.00 90.00 176.86 10.330.00 -32.26 556.54 476.965.16 716.44.29 22.309963 1.03.76922 11.000.00 90.00 176.86 10.330.00 -32.26 556.54 476.965.16 716.44.2	Depth	Inclination	Azimuth	Depth	+N/LS	-FIM	Northing	Fasting	تمعني والمرتبة والمواجع والمستر والمستركة	بر و مشاهد است می مدین کرد. مرکز است می مدین کرد.
10.200.00 40.87 179.88 10.027.44 127.43 550.76 477.407.47 715.427.72 32.211028 +100.706823 10.300.00 60.87 179.88 10.226.74 137.43 551.16 477.355.69 715.427.12 32.211031 +100.706823 10.600.00 70.87 178.68 10.228.70 38.18 552.14 477.161.67 715.427.12 32.211051 -100.706823 10.600.01 70.87 178.68 10.320.00 -222.65 553.10 478.876.15 715.430.17 22.30692 +100.706822 10.600.01 60.00 179.86 10.330.00 -422.45 553.23 478.851.5 715.431.21 22.30443 +103.76822 10.600.01 60.00 179.86 10.330.00 422.47 555.44 479.651.61 716.431.21 22.30443 +103.76822 11.200.00 60.00 179.86 10.330.00 -322.47 555.42 479.651.61 716.431.21 22.30643 +103.76822 11.200.00 60.00 179.86	(ft)	(°)		(ft),	(ft)	COMER	(usft)	(usft)	1 stituda	Longituda
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10.30000 50.37 179.68 10.262.14 13.33 551.64 477.355.69 715.428.12 32.311011 -100.76823 10.500.00 70.37 179.86 10.286.70 -38.16 552.64 477.7161.67 715.428.10 32.310652 -103.76823 10.600.00 60.07 179.86 10.330.00 -222.85 553.18 476.875.16 715.430.17 32.30612 -103.768223 10.600.00 90.00 179.86 10.330.00 -322.86 553.23 476.865.15 715.430.17 32.309189 -103.768223 10.800.00 90.00 179.86 10.330.00 -322.87 554.44 476.865.16 715.431.23 32.209189 -103.768223 11.000.00 80.00 179.86 10.330.00 -322.87 556.66 476.865.16 715.432.59 32.4383 -103.768223 11.000.00 80.00 179.86 10.330.00 -322.87 556.66 476.865.16 715.432.59 32.308618 -103.768223 11.000.00 90.00 179.86 10.330.00 -1.322.67 557.66 476.856.17 715.432.53 32.3	10,200,00	40.97	179,68	10,132.73	209.64	550,78	477,407.47	715,427.72	32,311208	-103,769823
10 10<	10,300,00	50.97	179,68	10,202.14	137.83	551.18	477,335.66	715,428.12	32.311011	-103,769823
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1 1	10,500,00	80.97	179,00	10,230.70	-30.10	002.14 557 69	4/7,101.07	715,429,09	32.310532	-103.769823
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10,800,00 90,00 178,68 10,300,00 332,84 553,78 175,86,17 11,32,303,22 10,3786,22 10,800,00 90,00 178,66 10,300,00 432,65 553,78 54,84 477,965,16 715,451,128 32,309443 1-00,786822 11,000,00 90,00 179,66 10,300,00 432,67 554,44 477,965,16 715,451,84 32,309443 1-103,786822 11,000,00 90,00 179,86 10,300,00 432,67 555,44 475,965,16 715,432,95 32,309843 1-103,768622 11,800,00 90,00 179,86 10,300,00 432,67 557,66 475,965,16 715,434,06 32,307743 1-103,768622 11,800,00 90,00 179,86 10,300,00 1,322,67 557,66 475,965,17 715,434,61 32,307243 1-103,768622 11,800,00 90,00 179,86 10,330,00 1,322,66 559,34 475,965,17 715,435,72 32,306144 1-103,768622 11,800,00 90,00 179,86<	10,000.27	90.00	179.68	10,330,00	-222.95	553.10	470,574.00	715,430.12	32.310019	•103.769822 103.769822
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$\begin{array}{c} 11,000.00 & 90.00 & 179.86 & 10.330.00 & 532.67 & 54.89 & 475,665.18 & 715,431.84 & 22.30546 & -103.769622 \\ 11,000.00 & 90.00 & 179.68 & 10.330.00 & 732.67 & 555.45 & 475,655.16 & 715,432.85 & 22.30643 & -103.769622 \\ 11,300.00 & 90.00 & 179.86 & 10.330.00 & 732.67 & 555.46 & 475,655.16 & 715,432.85 & 22.306143 & -103.769622 \\ 11,400.00 & 90.00 & 179.86 & 10.330.00 & 322.67 & 557.66 & 475,655.16 & 715,434.06 & 32.30773 & -103.769622 \\ 11,600.00 & 90.00 & 179.86 & 10.330.00 & -1,122.67 & 555.26 & 475,655.17 & 715,434.61 & 32.307731 & -103.769622 \\ 11,600.00 & 90.00 & 179.86 & 10.330.00 & -1,122.67 & 557.66 & 476,165.17 & 715,434.61 & 32.307731 & -103.769622 \\ 11,600.00 & 90.00 & 179.86 & 10.330.00 & -1,322.66 & 559.37 & 475,965.17 & 715,435.16 & 32.307743 & -103.769822 \\ 11,800.00 & 90.00 & 179.86 & 10.330.00 & -1,322.66 & 559.34 & 475,665.17 & 715,435.72 & 32.306564 & -103.769821 \\ 11,900.00 & 90.00 & 179.86 & 10.330.00 & -1,322.66 & 559.34 & 475,655.17 & 715,437.38 & 32.206464 & -103.769821 \\ 12,000.00 & 90.00 & 179.86 & 10.330.00 & -1,322.66 & 550.98 & 475,655.18 & 715,437.94 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -1,322.65 & 561.55 & 475,465.18 & 715,437.94 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -1,322.65 & 562.56 & 475,265.18 & 715,437.94 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -1,322.65 & 563.21 & 475,455.18 & 715,437.94 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -1,322.65 & 563.21 & 475,455.18 & 715,439.60 & 32.30519 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -1,322.65 & 563.21 & 475,465.18 & 715,439.60 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -2,322.65 & 563.21 & 475,465.18 & 715,443.60 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -2,322.65 & 563.74 & 474,485.19 & 715,444.03 & 32.306144 & -103.769821 \\ 12,000.00 & 90.00 & 179.68 & 10.330.00 & -2,322.65 & 564.32 & 475,465.19 & 715,444.03 & 32.306774 & -103.769821 \\ 13,0$	10,900,00	90.00	179.68	10 330 00	-432 68	554 34	476 765 16	715 431 28	32 309/43	-103.769822
111.00.0 90.00 179.88 10.330.00 -432.67 555.45 477.555.16 715.422.39 32.308.13 -103.76822 11.200.00 90.00 1778.68 10.330.00 -432.67 555.06 476.455.16 715.433.50 32.308.13 -103.76822 11.400.00 90.00 1778.68 10.330.00 -92.27 557.61 477.168.17 715.434.05 32.308.66 -103.778822 11.600.00 90.00 1778.68 10.330.00 -1.32.67 558.52 476.065.17 715.434.16 32.307518 -103.778822 11.800.00 90.00 179.68 10.330.00 -1.32.66 559.33 475.665.17 715.438.27 32.30664 -103.778821 11.900.00 90.00 176.68 10.330.00 -1.52.266 550.44 475.665.17 715.438.27 32.30664 -103.778821 12.200.00 90.00 176.68 10.330.00 -1.32.66 550.24 475.655.18 715.437.38 32.30564 -103.778821 12.200.00 90.00 1778.	11,000,00	90.00	179.68	10.330.00	-532.67	554 89	476 665 16	715 431 84	32 309168	-103.769822
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11,400.00 90.00 179,68 10,330.00 -932,67 557,11 476,156,17 715,434,61 32,30088 -10,376822 11,500.00 90.00 179,68 10,330.00 -1,32,67 558,22 476,156,17 715,434,51 32,307518 -103,769822 11,500.00 90.00 179,68 10,330.00 -1,322,66 558,22 476,055,17 715,435,72 32,307518 -103,7698221 11,800.00 90.00 179,68 10,330.00 -1,322,66 559,38 475,65,17 715,435,73 32,306414 -103,769821 12,000.00 90.00 179,68 10,330.00 -1,322,66 560,98 475,655,18 715,437,94 32,306414 -103,769821 12,200.00 90.00 179,68 10,330.00 -1,832,65 562,25 475,455,18 715,439,40 32,30544 -103,769821 12,400.00 90.00 179,68 10,330.00 -1,832,65 562,25 475,455,18 715,443,40 32,30544 -103,769821 12,400.00 90.00 179,68 10,330.00 -2,322,65 563,76 476,455,18 715,443,90	11,300,00	90,00	179.68	10,330.00	-832.67	556.56	476.365.16	715,433,50	32,308343	-103 769822
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11,600.00	90.00	179.68	10,330.00	-1,132.67	558.22	476,065,17	715,435,16	32.307518	-103.769822
11,800.00 90.00 179.68 10,330.00 -1,322.66 559.33 475,865.17 715,438.27 32.306989 -103,769821 12,000.00 90.00 179.68 10,330.00 -1,532.66 550.88 475,655.17 715,436.83 32.306941 -103,769821 12,000.00 90.00 179.68 10,330.00 -1,532.66 560.49 475,565.16 715,437.34 32.305414 -103,769821 12,200.00 90.00 179.68 10,330.00 -1,532.65 562.10 475,465.18 715,439.64 32.305594 -103,769821 12,300.00 90.00 179.68 10,330.00 -2,32.25 563.21 475,65.18 715,439.64 32.30541 -103,769821 12,600.00 90.00 179.68 10,330.00 -2,232.25 564.32 475,65.19 715,440.71 32.30445 -103,769821 12,600.00 90.00 179.68 10,330.00 -2,232.25 564.32 474,655.19 715,441.25 32.30445 +103,769821 12,800.00 90.00 <t< td=""><td>11,700.00</td><td>90.00</td><td>179,68</td><td>10,330.00</td><td>-1,232.66</td><td>558.77</td><td>475,965.17</td><td>715,435,72</td><td>32,307243</td><td>-103,769822</td></t<>	11,700.00	90.00	179,68	10,330.00	-1,232.66	558.77	475,965.17	715,435,72	32,307243	-103,769822
11,900.00 90.00 178.68 10,330.00 -1,422.66 559.88 475,765,17 715,438.83 32,206644 -103,769821 12,000.00 90.00 178.68 10,330.00 -1,532.66 560.99 475,565.18 715,437.38 32,306444 -103,769821 12,200.00 90.00 178.68 10,330.00 -1,732.66 561.55 475,455.18 715,439.49 32,305669 -103,769821 12,200.00 90.00 178.68 10,330.00 -1,322.65 562.10 475,365.18 715,439.04 32,305549 -103,769821 12,400.00 90.00 179.68 10,330.00 -2,032.65 562.10 475,165.18 715,440.15 32,30445 -103,769821 12,400.00 90.00 179.68 10,330.00 -2,32.65 564.32 474,965.19 715,442.12 32,30445 -103,769821 12,400.00 90.00 179.68 10,330.00 -2,32.65 564.37 474,965.19 715,441.82 32,30445 -103,769820 12,400.00 90.00 <	11,800.00	90.00	179.68	10,330.00	-1,332.66	559.33	475,865.17	715,436,27	32,306969	-103,769821
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12,400.00 90.00 179.68 10,330.00 -1,932.65 562.65 475,265.18 715,440.15 32,30544 -103,76921 12,500.00 90.00 179.68 10,330.00 -2,132.65 563.21 475,165.18 715,440.15 32,30544 -103,76921 12,600.00 90.00 179.68 10,330.00 -2,322.65 564.32 474,965.19 715,440.71 32,304770 -103,769821 12,800.00 90.00 179.68 10,330.00 -2,322.65 564.32 474,965.19 715,441.22 32,303945 -103,769820 12,900.00 90.00 179.68 10,330.00 -2,532.64 565.98 474,965.19 715,442.37 32,30395 -103,769820 13,000.00 90.00 179.68 10,330.00 -2,532.64 567.64 474,365.19 715,444.03 32,303120 -103,769820 13,200.00 90.00 179.68 10,330.00 -2,832.64 568.76 474,365.20 715,444.05 32,3022571 -103,769820 13,300.00 179.68 10,330.00 -3,322.63 569.31 474,465.20 715,445.70 32,3025	12,300.00	90.00	179.68	10,330.00	-1,832.65	562,10	475,365,18	715,439.04	32,305594	-103,769821
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12,600.00 90.00 179.68 10,330.00 -2,132.65 563.76 475,065.19 715,440.71 32.304770 -103.769821 12,700.00 90.00 179.68 10,330.00 -2,232.65 564.32 474,965.19 715,441.26 32.304250 -103.769821 12,800.00 90.00 179.68 10,330.00 -2,332.65 564.87 474,865.19 715,441.23 32.303670 -103.769820 13,000.00 90.00 179.68 10,330.00 -2,532.64 566.53 474,665.19 715,442.37 32.303670 -103.769820 13,000.00 90.00 179.68 10,330.00 -2,632.64 567.54 474,655.19 715,443.54 32.303120 -103.769820 13,000.00 90.00 179.68 10,330.00 -2,832.64 567.54 474,465.20 715,444.03 32.302451 -103.769820 13,400.00 90.00 179.68 10,330.00 -2,832.64 568.75 474,465.20 715,445.70 32.302251 -103.769820 13,400.00 90.00	12,500.00	90.00	179,68	10,330.00	-2,032.65	563.21	475,165.18	715,440.15	32,305044	-103,769821
12,700.00 90.00 178.68 10,330.00 -2,232.65 564.82 474,965.19 715,441.26 32,30425 -103,769821 12,800.00 90.00 178.68 10,330.00 -2,432.65 565.43 474,865.19 715,441.26 32,304220 -103,769820 13,000.00 90.00 179.68 10,330.00 -2,532.64 566.53 474,665.19 715,442.37 32,30395 -103,769820 13,000.00 90.00 179.68 10,330.00 -2,532.64 566.53 474,665.19 715,444.03 32,30395 -103,769820 13,200.00 90.00 179.68 10,330.00 -2,32.64 567.64 474,652.0 715,444.03 32,302245 -103,769820 13,400.00 90.00 179.68 10,330.00 -2,332.65 568.75 474,165.20 715,444.15 32,302245 -103,769820 13,600.00 90.00 178.68 10,330.00 -3,32.63 569.31 474,865.20 715,447.56 32,302241 -103,769820 13,600.00 90.00 178.68 10,330.00 -3,32.63 570.41 473,865.21 715,447.70	12,600.00	90.00	179.68	10,330.00	-2,132,65	563.76	475,065.19	715,440.71	32.304770	-103.769821
12,800.00 90.00 179.68 10,330.00 -2,332.65 564.87 474,865.19 715,441.82 32,304220 -103,769820 12,900.00 90.00 179.68 10,330.00 -2,432.65 565.43 474,765.19 715,442.37 32,303870 -103,769820 13,000.00 90.00 179.68 10,330.00 -2,532.64 566.58 474,655.19 715,442.03 32,303870 -103,769820 13,200.00 90.00 179.68 10,330.00 -2,732.64 567.64 474,852.0 715,444.03 32,303120 -103,769820 13,300.00 90.00 179.68 10,330.00 -2,932.64 568.76 474,852.0 715,445.14 32,30284 -103,769820 13,400.00 90.00 179.68 10,330.00 -3,322.63 568.20 474,852.0 715,445.70 32,30221 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,322.63 569.86 473,965.20 715,445.70 32,30126 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,322.63 571.52 473,665.21 715,446.81 <td>12,700.00</td> <td>90.00</td> <td>179.68</td> <td>10,330.00</td> <td>-2,232.65</td> <td>564.32</td> <td>474,965.19</td> <td>715,441.26</td> <td>32.304495</td> <td>-103,769821</td>	12,700.00	90.00	179.68	10,330.00	-2,232.65	564.32	474,965.19	715,441.26	32.304495	-103,769821
12,900.00 90.00 179.68 10,330.00 -2,432.65 566.43 474,765.19 715,442.37 32.303670 -103.769820 13,000.00 90.00 179.68 10,330.00 -2,532.64 566.53 474,665.19 715,442.92 32.303670 -103.769820 13,200.00 90.00 179.68 10,330.00 -2,632.64 566.53 474,655.19 715,444.95 32.303120 -103.769820 13,200.00 90.00 179.68 10,330.00 -2,832.64 567.64 474,465.20 715,444.59 32.302571 -103.769820 13,600.00 90.00 179.68 10,330.00 -2,832.64 568.75 474,465.20 715,445.14 32.302571 -103.769820 13,600.00 90.00 179.68 10,330.00 -3,132.63 569.36 473,465.20 715,446.25 32.30271 -103.769820 13,600.00 90.00 179.68 10,330.00 -3,322.63 570.41 473,465.20 715,446.25 32.301471 -103.769820 13,600.00 90.00 179.68 10,330.00 -3,322.63 571.52 473,665.21 715,446.2	12,800.00	90,00	179.68	10,330.00	-2,332.65	564.87	474,865.19	715,441.82	32,304220	-103.769820
13,000.00 90.00 179.68 10,330.00 -2,532.64 566.85 474,665.19 715,442.92 32,303670 -103,769820 13,100.00 90.00 179.68 10,330.00 -2,632.64 566.95 474,565.19 715,444.03 32,30395 -103,769820 13,200.00 90.00 179.68 10,330.00 -2,832.64 567.09 474,652.0 715,444.03 32,302845 -103,769820 13,400.00 90.00 179.68 10,330.00 -2,832.64 567.64 474,265.20 715,445.14 32,302271 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,322.64 568.75 474,165.20 715,445.14 32,30214 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,322.63 569.86 473,965.20 715,446.25 32,30176 -103,769820 13,700.00 90.00 179.68 10,330.00 -3,322.63 570.97 473,765.21 715,446.81 32,301471 -103,769820 13,800.00 90.00 179.68 10,330.00 -3,532.63 571.52 473,765.21 715,446.81 </td <td>12,900.00</td> <td>90.00</td> <td>179.68</td> <td>10,330.00</td> <td>-2,432.65</td> <td>565,43</td> <td>474,765,19</td> <td>715,442.37</td> <td>32.303945</td> <td>-103.769820</td>	12,900.00	90.00	179.68	10,330.00	-2,432.65	565,43	474,765,19	715,442.37	32.303945	-103.769820
13,100.00 90.00 179.68 10,330.00 -2,632.64 566.53 474,565.19 715,444.63 32,30395 -103,769820 13,200.00 90.00 179.68 10,330.00 -2,732.64 567.64 474,465.20 715,444.59 32,302120 -103,769820 13,400.00 90.00 179.68 10,330.00 -2,932.64 568.20 474,265.20 715,444.59 32,302245 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,032.64 568.75 474,065.20 715,445.70 32,302296 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,132.63 569.86 473,965.20 715,446.81 32,301146 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,332.63 570.41 473,965.21 715,447.91 32,3011471 -103,769820 13,900.00 90.00 179.68 10,330.00 -3,632.63 571.52 473,665.21 715,447.91 32,3011471 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 572.63 473,665.21 715,446	13,000.00	90.00	179,68	10,330.00	-2,532.64	565,98	474,665.19	715,442.92	32,303670	-103,769820
13,200.00 90.00 179.68 10,300.00 -2,732.64 567.09 474,465.20 715,444.59 32,303120 -103,769220 13,300.00 90.00 179.68 10,330.00 -2,832.64 567.64 474,365.20 715,445.14 32,302571 -103,769820 13,400.00 90.00 179.68 10,330.00 -2,832.64 568.20 474,265.20 715,445.14 32,302571 -103,769820 13,500.00 90.00 179.68 10,330.00 -3,032.64 569.31 474,265.20 715,445.70 32,30226 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,132.63 569.86 473,965.20 715,446.81 32,301746 -103,769820 13,700.00 90.00 179.68 10,330.00 -3,322.63 570.97 473,652.1 715,447.36 32,301186 -103,769820 13,800.00 90.00 179.68 10,330.00 -3,532.63 571.52 473,665.21 715,447.91 32,301186 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 572.63 473,665.21 715,445.01	13,100.00	90.00	179.68	10,330.00	-2,632.64	566.53	474,565.19	715,443.48	32,303395	-103.769820
13,300.00 90.00 179.68 10,330.00 -2,832.64 567.64 474,365.20 715,444.59 32.302845 -103,769820 13,400.00 90.00 179.68 10,330.00 -2,932.64 568.20 474,265.20 715,445.14 32.302571 -103,769820 13,500.00 90.00 179.68 10,330.00 -3,032.84 568.75 474,165.20 715,445.70 32.30296 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,232.63 569.31 474,065.20 715,446.25 32.301476 -103,769820 13,800.00 90.00 179.68 10,330.00 -3,232.63 570.41 473,865.21 715,447.91 32.301471 -103,769820 13,800.00 90.00 179.68 10,330.00 -3,532.63 571.52 473,665.21 715,447.91 32.301471 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,532.63 572.08 473,655.21 715,447.91 32.300372 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,632.62 573.74 473,465.21 715,449.0	13,200.00	90.00	179.68	10,330.00	-2,732.64	567.09	474,465.20	715,444.03	32.303120	-103.769820
13,400.00 90.00 179.68 10,330.00 -2,932.64 568.20 474,265.20 715,445.14 32.302571 -103,769820 13,500.00 90.00 179.68 10,330.00 -3,032.84 568.75 474,165.20 715,445.14 32.302296 -103,769820 13,600.00 90.00 179.68 10,330.00 -3,132.63 569.31 474,065.20 715,446.25 32.301746 -103,769820 13,700.00 90.00 179.68 10,330.00 -3,332.63 570.41 473,865.21 715,447.36 32.301471 -103,769820 13,900.00 90.00 179.68 10,330.00 -3,432.63 570.97 473,765.21 715,447.91 32.30196 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 572.08 473,665.21 715,449.02 32.300646 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 572.68 473,652.21 715,449.02 32.300646 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,652.21 715,450.1	13,300.00	90.00	179.68	10,330.00	-2,832.64	567.64	474,365.20	715,444,59	32,302845	-103,769820
13,500.00 90.00 179.68 10,330.00 -3,032.84 568.75 474,165.20 715,445.70 32.30226 -103.769820 13,600.00 90.00 179.68 10,330.00 -3,132.63 569.36 473,965.20 715,446.25 32.301746 -103.769820 13,700.00 90.00 179.68 10,330.00 -3,332.63 570.41 473,865.21 715,447.36 32.301471 -103.769820 13,900.00 90.00 179.68 10,330.00 -3,332.63 570.41 473,865.21 715,447.91 32.301471 -103.769820 13,900.00 90.00 179.68 10,330.00 -3,532.63 571.52 473,665.21 715,447.91 32.301921 -103.769819 14,000.00 90.00 179.68 10,330.00 -3,732.63 572.08 473,565.21 715,448.47 32.300921 -103.769819 14,100.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,465.21 715,449.58 32.300372 -103.769819 14,200.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,465.21 715,450.6	13,400.00	90,00	179.68	10,330.00	-2,932.64	568,20	474,265,20	715,445.14	32,302571	-103,769820
13,600.00 90.00 179.68 10,330.00 -3,132.63 569.31 474,065.20 715,446.25 32,302021 -103,769820 13,700.00 90.00 179.68 10,330.00 -3,232.63 570.41 473,965.20 715,446.81 32,301746 -103,769820 13,800.00 90.00 179.68 10,330.00 -3,332.63 570.97 473,765.21 715,447.36 32,301471 -103,769820 13,900.00 90.00 179.68 10,330.00 -3,532.63 571.97 473,665.21 715,447.36 32,300921 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 572.08 473,665.21 715,449.02 32,300646 -103,769819 14,200.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,665.21 715,449.56 32,300372 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,832.62 573.74 473,265.22 715,450.13 32,30097 -103,769819 14,500.00 90.00 179.68 10,330.00 -4,032.62 574.29 473,265.22 715,451.2	13,500.00	90.00	179.68	10,330.00	-3,032.64	568.75	474,165.20	715,445.70	32.302296	-103.769820
13,700.00 90.00 179.68 10,300.00 -3,232.63 569.86 473,965.20 715,448.81 32,301746 -103,769820 13,800.00 90.00 179.68 10,330.00 -3,332.63 570.41 473,965.21 715,447.36 32,301471 -103,769820 13,900.00 90.00 179.68 10,330.00 -3,432.63 570.97 473,765.21 715,447.91 32,301471 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,532.63 571.52 473,665.21 715,448.47 32,300464 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 572.63 473,665.21 715,448.47 32,300921 -103,769819 14,200.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,965.21 715,445.13 32,30097 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,932.62 573.74 473,965.22 715,451.79 32,299822 -103,769819 14,400.00 90.00 179.68 10,330.00 -4,322.62 574.29 473,165.22 715,451.7	13,600.00	90.00	179.58	10,330.00	-3,132.63	569.31	474,065.20	715,446.25	32.302021	-103.769820
13,800.00 90.00 179.68 10,330.00 -3,432.63 570.97 473,765.21 715,447.36 32,301471 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,432.63 570.97 473,765.21 715,447.91 32,301471 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,632.63 571.52 473,665.21 715,448.47 32,300646 -103,769819 14,100.00 90.00 179.68 10,330.00 -3,632.63 572.63 473,652.21 715,449.02 32,300646 -103,769819 14,200.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,652.21 715,449.56 32,300372 -103,769819 14,200.00 90.00 179.68 10,330.00 -3,832.62 573.74 473,652.22 715,450.13 32,20097 -103,769819 14,400.00 90.00 179.68 10,330.00 -4,032.62 574.29 473,165.22 715,451.24 32,299272 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,322.62 575.96 472,865.22 715,451.7	13,700,00	90.00	1/9.00	10,330,00	-3,232,63	509.80	473,965,20	715,446,81	32,301746	-103.769820
13,900.00 90.00 179.68 10,300.00 -3,432.63 570.97 473,652.1 715,447,91 32,301196 -103,769819 14,000.00 90.00 179.68 10,330.00 -3,532.63 571.52 473,652.21 715,448.47 32,300921 -103,769819 14,100.00 90.00 179.68 10,330.00 -3,632.63 572.63 473,455.21 715,449.02 32,300646 -103,769819 14,200.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,455.21 715,449.56 32,300646 -103,769819 14,300.00 90.00 179.68 10,330.00 -3,632.62 573.19 473,455.21 715,450.13 32,30097 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,932.62 573.74 473,652.22 715,451.24 32,299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,322.62 574.85 473,065.22 715,451.24 32,299272 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,322.62 575.96 472,965.22 715,451.79	13,800,00	90,00	179.00	10,330,00	-3,332,03	570,41	4/3,865,21	715,447,36	32,301471	-103.769820
14,000.00 90.00 179.68 10,330.00 -3,632.63 572.08 473,665.21 715,449.47 32,300921 -103,768819 14,100.00 90.00 179.68 10,330.00 -3,632.63 572.08 473,665.21 715,449.02 32,300646 -103,769819 14,200.00 90.00 179.68 10,330.00 -3,732.63 572.63 473,665.21 715,449.56 32,300372 -103,769819 14,300.00 90.00 179.68 10,330.00 -3,832.62 573.19 473,655.21 715,450.13 32,30097 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,932.62 573.74 473,652.22 715,451.69 32,299822 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,032.62 574.29 473,165.22 715,451.79 32,299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,332.62 575.40 472,965.22 715,451.79 32,298972 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,332.62 575.96 472,652.23 715,452.3	13,900.00	90.00	175.00	10,330.00	-3,432.03	570.97	4/3,/03.21	715,447.91	32.301196	-103./69819
14,100,00 90.00 179.68 10,30.00 -3,732.63 572.63 473,465.21 715,449.52 32,30046 -103,768819 14,200,00 90.00 179.68 10,330.00 -3,732.63 572.63 473,465.21 715,449.56 32,300372 -103,769819 14,300,00 90.00 179.68 10,330.00 -3,832.62 573.19 473,365.21 715,450.13 32,30097 -103,769819 14,400,00 90.00 179.68 10,330.00 -3,932.62 573.74 473,265.22 715,451.69 32,299822 -103,769819 14,600,00 90.00 179.68 10,330.00 -4,032.62 574.29 473,165.22 715,451.74 32,299547 -103,769819 14,600,00 90.00 179.68 10,330.00 -4,032.62 574.85 473,065.22 715,451.79 32,299547 -103,769819 14,600,00 90.00 179.68 10,330.00 -4,332.62 575.40 472,965.22 715,451.79 32,298972 -103,769819 14,800,00 90.00 179.68 10,330.00 -4,332.62 575.96 472,865.22 715,452.30<	14,000.00	90.00	179.68	10,330.00	-3,332.03	572.08	473,003.21	715,440.47	32,300921	-103./09019
14,200.00 90.00 179.68 10,30.00 -3,32.62 573.19 473,465.21 715,450.13 32.30097 -103,768819 14,400.00 90.00 179.68 10,330.00 -3,832.62 573.19 473,865.21 715,450.13 32.30097 -103,769819 14,400.00 90.00 179.68 10,330.00 -3,932.62 573.74 473,265.22 715,450.69 32.299822 -103,769819 14,500.00 90.00 179.68 10,330.00 -4,032.62 574.29 473,165.22 715,451.24 32.299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,132.62 574.85 473,065.22 715,451.24 32.299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,132.62 575.40 472,965.22 715,451.35 32.298977 -103,769819 14,700.00 90.00 179.68 10,330.00 -4,332.62 575.96 472,965.22 715,452.90 32.298472 -103,769819 14,900.00 90.00 179.68 10,330.00 -4,332.61 577.07 472,665.23 715,453.46 </td <td>14,100,00</td> <td>90.00</td> <td>179.68</td> <td>10,330,00</td> <td>-3,032,03</td> <td>572.00</td> <td>473,303.21</td> <td>715,449,02</td> <td>32,300040</td> <td>-103,709019</td>	14,100,00	90.00	179.68	10,330,00	-3,032,03	572.00	473,303.21	715,449,02	32,300040	-103,709019
14,400.00 90.00 179.68 10,30.00 -3,932.62 573.74 473,265.22 715,450.69 32.299822 -103,769819 14,400.00 90.00 179.68 10,330.00 -4,032.62 573.74 473,265.22 715,450.69 32.299822 -103,769819 14,500.00 90.00 179.68 10,330.00 -4,032.62 574.29 473,165.22 715,451.24 32.299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,132.62 574.85 473,065.22 715,451.24 32.299547 -103,769819 14,700.00 90.00 179.68 10,330.00 -4,132.62 575.40 472,965.22 715,452.35 32.299897 -103,769819 14,800.00 90.00 179.68 10,330.00 -4,332.62 575.96 472,965.22 715,452.90 32.298722 -103,769819 14,900.00 90.00 179.68 10,330.00 -4,332.61 576.51 472,665.23 715,453.46 32.298447 -103,769819 15,000.00 90.00 179.68 10,330.00 -4,632.61 577.07 472,665.23 715,454.0	14,200,00	90.00	179.68	10,330,00	-3,832,62	573.19	473 365 21	715,449.00	32,300372	-103.769619
14,501.00 90.00 179.68 10,30.00 -4,032.62 574.29 473,165.22 715,451.24 32,299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,032.62 574.29 473,165.22 715,451.24 32,299547 -103,769819 14,600.00 90.00 179.68 10,330.00 -4,132.62 574.85 473,065.22 715,451.24 32,299547 -103,769819 14,700.00 90.00 179.68 10,330.00 -4,232.62 575.40 472,965.22 715,452.35 32,299897 -103,769819 14,800.00 90.00 179.68 10,330.00 -4,232.62 575.96 472,965.22 715,452.90 32,298722 -103,769819 14,900.00 90.00 179.68 10,330.00 -4,332.61 576.51 472,655.23 715,453.46 32,298477 -103,769819 15,000.00 90.00 179.68 10,330.00 -4,532.61 577.07 472,655.23 715,454.01 32,298173 -103,769818 15,000.00 90.00	14,000.00	90.00	179.68	10,330,00	-3 932 62	573 74	473 265 22	715,450,15	32,000037	-103.769819
14,600,00 90,00 179,68 10,330,00 -4,132,62 574,85 473,065,22 715,451,79 32,299272 -103,769819 14,600,00 90,00 179,68 10,330,00 -4,132,62 574,85 473,065,22 715,451,79 32,299272 -103,769819 14,600,00 90,00 179,68 10,330,00 -4,332,62 575,96 472,965,22 715,452,90 32,298722 -103,769819 14,800,00 90,00 179,68 10,330,00 -4,332,62 575,96 472,965,23 715,452,90 32,298722 -103,769819 14,900,00 90,00 179,68 10,330,00 -4,332,61 576,51 472,965,23 715,453,46 32,298722 -103,769819 15,000,00 90,00 179,68 10,330,00 -4,532,61 577,07 472,665,23 715,454,01 32,298723 -103,769818 15,100,00 90,00 179,68 10,330,00 -4,632,61 577,62 472,655,23 715,454,57 32,297623 -103,769818 15,200,00 90,00	14 500 00	90.00	179.68	10 330 00	-4 032 62	574 29	473 165 22	715 451 24	32 299547	-103.769819
14,700.00 90.00 179.68 10,330.00 -4,232.62 575.40 472,965.22 715,452.35 32.298997 -103.769819 14,800.00 90.00 179.68 10,330.00 -4,332.62 575.96 472,965.22 715,452.35 32.298972 -103.769819 14,800.00 90.00 179.68 10,330.00 -4,332.62 575.96 472,765.23 715,453.46 32.298477 -103.769819 14,900.00 90.00 179.68 10,330.00 -4,532.61 576.51 472,765.23 715,453.46 32.298447 -103.769819 15,000.00 90.00 179.68 10,330.00 -4,632.61 577.07 472,665.23 715,454.01 32.298173 -103.769818 15,100.00 90.00 179.68 10,330.00 -4,632.61 577.62 472,655.23 715,454.57 32.297898 -103.769818 15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,455.12 32.297623 -103.769818 15,300.00 90.00	14.600.00	90.00	179.68	10,330.00	-4,132.62	574 85	473 065 22	715 451 79	32 299272	-103 769819
14,800.00 90.00 179.68 10,330.00 -4,332.62 575.96 472,865.22 715,452.90 32,298722 -103,769819 14,800.00 90.00 179.68 10,330.00 -4,432.61 576.51 472,865.22 715,453.46 32,298747 -103,769819 15,000.00 90.00 179.68 10,330.00 -4,432.61 577.07 472,665.23 715,454.01 32,298173 -103,769818 15,000.00 90.00 179.68 10,330.00 -4,632.61 577.07 472,665.23 715,454.01 32,298173 -103,769818 15,100.00 90.00 179.68 10,330.00 -4,632.61 577.62 472,665.23 715,454.57 32,297898 -103,769818 15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,455.12 32,297623 -103,769818 15,300.00 90.00 179.68 10,330.00 -4,832.61 578.73 472,365.23 715,455.67 32,29763 -103,769818 15,300.00 90.00	14.700.00	90.00	179.68	10,330.00	-4.232.62	575.40	472,965,22	715 452 35	32 298997	-103 769819
14,900.00 90.00 179.68 10,330.00 -4,432.61 576.51 472,765.23 715,453.46 32,298447 -103,769819 15,000.00 90.00 179.68 10,330.00 -4,632.61 577.07 472,665.23 715,453.46 32,298447 -103,769819 15,000.00 90.00 179.68 10,330.00 -4,632.61 577.07 472,665.23 715,454.01 32,298447 -103,769818 15,100.00 90.00 179.68 10,330.00 -4,632.61 577.62 472,665.23 715,454.57 32,297898 -103,769818 15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,455.12 32,297623 -103,769818 15,300.00 90.00 179.68 10,330.00 -4,832.61 578.73 472,365.23 715,455.67 32,297348 -103,769818	14.800.00	90.00	179.68	10,330.00	-4.332.62	575.96	472 865 22	715.452.90	32.298722	-103.769819
15,000.00 90.00 179.68 10,330.00 -4,532.61 577.07 472,665.23 715,454.01 32,298173 -103,769818 15,100.00 90.00 179.68 10,330.00 -4,632.61 577.62 472,665.23 715,454.01 32,298173 -103,769818 15,100.00 90.00 179.68 10,330.00 -4,632.61 577.62 472,665.23 715,454.57 32,297898 -103,769818 15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,455.12 32,297623 -103,769818 15,300.00 90.00 179.68 10,330.00 -4,832.61 578.73 472,365.23 715,455.67 32,297348 -103,769818	14,900.00	90.00	179,68	10,330,00	-4.432.61	576.51	472,765,23	715,453,46	32,298447	-103,769819
15,100.00 90.00 179.68 10,330.00 -4,632.61 577.62 472,565.23 715,454.57 32.297898 -103.769818 15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,454.57 32.297898 -103.769818 15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,455.12 32.297623 -103.769818 15,300.00 90.00 179.68 10,330.00 -4,832.61 578.73 472,365.23 715,455.67 32.297348 -103.769818	15,000.00	90.00	179.68	10,330.00	-4,532.61	577.07	472.665.23	715.454.01	32.298173	-103.769818
15,200.00 90.00 179.68 10,330.00 -4,732.61 578.18 472,465.23 715,455.12 32.297623 -103.769818 15,300.00 90.00 179.68 10,330.00 -4,832.61 578.73 472,365.23 715,455.67 32.297348 -103.769818	15.100.00	90.00	179.68	10,330.00	-4,632.61	577.62	472.565.23	715.454.57	32.297898	-103.769818
15,300.00 90.00 179.68 10,330.00 -4,832.61 578.73 472,365.23 715,455.67 32.297348 -103.769818	15.200.00	90,00	179.68	10,330.00	-4,732.61	578.18	472.465.23	715.455.12	32.297623	-103.769818
	15,300,00	90.00	179.68	10,330.00	-4,832.61	578,73	472,365.23	715,455.67	32,297348	-103.769818

EDM r5000.141_Prod US WCDSC Permian NM Database: Company: Project: Site: Well: Eddy County (NAD 83 NM Eastern) Sec 15-T23S-R31E Maldives 15-27 Fed Com 232H Wellbore: Wellbore #1 Design: Permit Plan 2

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Local Co-ordinate Reference: Well Maldives 15-2 TVD Reference: RKB @ 3412.50ft MD Reference: RKB @ 3412.50ft North Reference: Grid Minimum Curvatur Survey Calculation Method: 2.25 限的

Well Maldives 15-27 Fed Com 232H RKB @ 3412.50ft Minimum Curvature

Measured DPD Artingtion (1) Oracle (10) Oracle (10) Oracle (10) Holy (10) Holy (10) <thholy (10) Holy (10) Holy (10)<th>Planned Survey</th><th></th><th></th><th>and the second se</th><th></th><th>an an a sananan an an</th><th>n in andere i e der andere der der der</th><th>C. C. C</th><th>and a second second</th><th>na se a se se</th></thholy 	Planned Survey			and the second se		an an a sananan an	n in andere i e der andere der der der	C. C	and a second	na se a se
Name and the statute of the	AL AL									
Brain Brain <th< th=""><th>Measured .</th><th></th><th></th><th>Vertical</th><th>and the second second</th><th></th><th>Map</th><th>Map</th><th></th><th></th></th<>	Measured .			Vertical	and the second second		Map	Map		
15.347.00 90.00 179.66 10.300.00 4.878.61 578.99 472.318.23 715.455.93 32.297219 -100.769618 Cross Section @ 15347 MD, 0* FNL, 1360* FML 15.400.00 90.00 179.88 10.330.00 -4.932.61 579.28 472.285.23 715.456.23 32.29773 -103.769618 15.500.00 90.00 179.68 10.330.00 -5.132.60 580.39 477.205.24 715.457.34 32.296733 -103.769618 15.500.00 90.00 179.68 10.330.00 -5.322.60 580.39 477.952.42 715.457.34 32.296523 -103.769818 15.500.00 90.00 179.68 10.330.00 -5.322.60 580.26 471.652.42 715.457.45 32.296424 -103.769818 15.000.00 90.00 179.68 10.330.00 -5.532.60 583.12 471.465.25 715.460.16 32.29444 -103.769817 16.200.00 90.00 179.68 10.330.00 -5.582.59 584.27 471.465.25 715.461.12 32.294424 -103.769817 <	(ff)	Inclination	Azimum	(ff)	+NV-S	+ E/ - W	(usft)	Lasting (usff)		A Stream Bar South
15,347,00 90,00 178,88 10,330,00 4,879,61 578,99 472,318,23 715,455,93 32,297219 1:03,79818 15,400,00 90,00 178,88 10,330,00 -5,032,61 579,28 472,285,24 715,456,73 32,29673 1:03,769818 15,500,00 90,00 179,68 10,330,00 -5,132,60 580,39 472,065,24 715,456,73 32,296723 1:03,769818 15,500,00 90,00 179,68 10,330,00 -5,132,60 580,35 471,865,24 715,456,55 32,296529 1:03,769818 15,500,00 90,00 179,68 10,330,00 -5,322,60 582,16 471,652,44 715,459,50 32,295424 1:03,769818 15,000,00 90,00 179,68 10,330,00 -5,632,60 583,16 471,652,5 715,460,11 32,295424 1:03,769817 16,000,00 90,00 179,68 10,330,00 -5,632,60 583,72 471,465,25 715,461,21 32,294574 1:03,769817 16,000,00 90,00 179,68 10,330,00 -5,632,59 584,47 471,652,5 715,461,22 <th>3.</th> <th>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</th> <th></th> <th>何人的主要的</th> <th></th> <th></th> <th></th> <th></th> <th>Sirguinne.</th> <th>Loudinnae</th>	3.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		何人的主要的					Sirguinne.	Loudinnae
Cross Section 8 91347 MD, 0 PTM, 1380 -4,932.81 579.28 472,285.23 715,456.73 32.297073 -103.769818 15,500.00 90.00 179.88 10,330.00 -5,032.81 579.28 472,165.24 715,456.78 32.296738 -103.769818 15,500.00 90.00 179.88 10,330.00 -5,232.60 580.95 471,965.24 715,457.43 32.296573 -103.769818 15,500.00 90.00 179.68 10,330.00 -5,332.60 581.50 471,865.24 715,459.00 32.295674 -103.769818 15,900.00 90.00 179.68 10,330.00 -5,532.60 582.16 471,855.24 715,459.05 32.295149 -103.769818 15,000.00 90.00 179.68 10,330.00 -5,322.59 584.27 471,455.25 715,461.72 32.294544 -103.769817 16,000.00 90.00 179.68 10,330.00 -5,032.59 584.47 471.852.57 715,461.77 32.294594 -103.769817 16,000.00 90.00	15,347.00	90.00	179.68	10,330.00	-4,879.61	578.99	472,318.23	715,455,93	32.297219	-103,769818
19,000.0 90.00 179.68 10,330.00 -5,032.21 579.44 472,265.24 715,456.78 32.296798 103,769918 15,500.00 90.00 179.68 10,330.00 -5,322.60 580.39 472,065.24 715,457.78 32.296788 103,769918 15,700.00 90.00 179.68 10,330.00 -5,332.60 580.59 471,965.24 715,457.86 32.29524 -103,769918 15,900.00 90.00 179.68 10,330.00 -5,532.60 581.50 471,865.24 715,459.00 32.295494 -103,769918 15,000.00 90.00 179.68 10,330.00 -5,532.60 582.61 471,655.24 715,460.11 32.29474 -103,769917 16,000.00 90.00 179.68 10,330.00 -5,532.60 583.72 471,465.25 715,461.72 32.294874 -103,769917 16,000.00 90.00 179.68 10,330.00 -5,332.59 584.27 471,465.25 715,462.33 32.29474 -103,769917 16,000.00 90.00 179.68 10,330.00 -5,332.59 584.43 471,652.57 715,462.33 <th>Cross S</th> <th>ection @ 153</th> <th>47' MD, 0' FN</th> <th>L, 1360' FWL</th> <th>4 030 64</th> <th>E70 08</th> <th>470.005.00</th> <th>745 450 00</th> <th>00 007070</th> <th>400 700040</th>	Cross S	ection @ 153	47' MD, 0' FN	L, 1360' FWL	4 030 64	E70 08	470.005.00	745 450 00	00 007070	400 700040
11 11<	15,400,00	90.00	179.68	10,330.00	-5 032 61	579.20 579.84	472,203.23	715,456.23	32,29/0/3	-103./09010
15700.00 90.00 179.88 10,330.00 -5,332.80 580.95 471.985.24 715,457.88 32.286248 -103.769818 15,600.00 90.00 179.88 10,330.00 -5,332.80 561.50 471,852.24 715,456.45 32.295974 -103.769818 15,600.00 90.00 179.68 10,330.00 -5,532.80 562.61 471,856.24 715,465.55 32.295424 -103.769818 16,000.00 90.00 179.68 10,330.00 -5,532.50 563.16 471,856.25 715,460.11 32.295424 -103.769817 16,000.00 90.00 179.68 10,330.00 -5,332.59 584.27 471,856.25 715,461.22 32.294534 -103.769817 16,000.00 90.00 179.68 10,330.00 -6,332.59 585.34 471,165.25 715,462.33 32.294049 -103.769817 16,600.00 90.00 179.68 10,330.00 -6,332.59 587.64 470,965.26 715,463.34 32.293500 -103,769817 16,600.00 90.00 179.68 10,330.00 -6,332.59 587.64 470,852.67 715,463.5	15.600.00	90.00	179.68	10,330,00	-5.132.60	580.39	472.065.24	715,457,34	32 296523	-103 769818
15,800.00 90.00 179.88 10,330.00 -5,332.80 581.50 471,865.24 715,463.45 32.295699 -103,769818 15,000.00 90.00 179.88 10,330.00 -5,432.60 582.61 471,765.24 715,469.15 32.295699 -103,769818 16,000.00 90.00 179.88 10,330.00 -5,532.60 583.72 471,865.25 715,460.11 32.295442 -103,769817 16,300.00 90.00 179.88 10,330.00 -5,532.59 584.27 471,865.25 715,461.11 32.294549 -103,769817 16,400.00 90.00 179.68 10,330.00 -5,932.59 584.83 471,265.25 715,461.22 32.294549 -103,769817 16,600.00 90.00 179.68 10,330.00 -6,332.59 585.44 471,085.25 715,462.38 32.294049 -103,769817 16,600.00 90.00 179.68 10,330.00 -6,332.59 586.44 470,965.26 715,463.44 32.292950 -103,769817 17,000.00 90.00 179.68 10,330.00 -6,332.59 587.04 470,965.26 715,465.	15,700.00	90.00	179.68	10,330.00	-5,232.60	580.95	471,965,24	715,457.89	32,296248	-103.769818
15,900.00 90.00 179.68 10,30.00 -5,432.60 582.61 471,765.24 715,459.55 32,29549 -103,769818 16,100.00 90.00 179.68 10,330.00 -5,532.60 582.61 471,655.24 715,469.15 32,295149 -103,769817 16,100.00 90.00 179.68 10,330.00 -5,732.59 583,72 471,455.25 715,460.66 32,294574 -103,769817 16,400.00 90.00 179.68 10,330.00 -5,632.59 584.27 471,652.57 715,461.77 32,294324 -103,769817 16,600.00 90.00 179.68 10,330.00 -6,132.59 585.44 471,652.57 715,461.87 32,294324 -103,769817 16,600.00 90.00 179.68 10,330.00 -6,132.59 585.44 471,652.57 715,462.33 32,294049 -103,769817 16,600.00 90.00 179.86 10,330.00 -6,132.59 587.64 470,965.26 715,463.44 32,293205 -103,769817 17,000.00 90.00 179.68 10,330.00 -6,432.58 587.61 470,652.67 715,464.54	15,800.00	90.00	179.68	10,330.00	-5,332.60	581.50	471,865.24	715,458,45	32.295974	-103.769818
16,000.0090.00179.6810,330.00-5,52.60562.61471,652.24715,469.5532.295.149-103,76981816,100.0090.00179.6810,330.00-5,632.60563.16471,652.25715,460.1632.294674-103,76981716,200.0090.00179.6810,330.00-5,632.59564.27471,652.25715,461.2232.294679-103,76981716,600.0090.00179.6810,330.00-5,632.59564.83471,125.25715,461.7732.294324-103,76981716,500.0090.00179.6810,330.00-6,032.59565.38471,165.25715,462.3332.29300-103,76981716,700.0090.00179.6810,330.00-6,232.59566.49470,065.26715,463.4432.293500-103,76981716,700.0090.00179.6810,330.00-6,322.59587.60470,652.62715,465.4432.292550-103,76981717,100.0090.00179.6810,330.00-6,532.58587.60470,652.62715,465.6432.292675-103,76981617,700.0090.00179.6810,330.00-6,532.58589.24470,652.62715,465.6532.292400-103,76981617,200.0090.00179.6810,330.00-6,732.58589.24470,652.67715,465.6532.292125-103,76981617,200.0090.00179.6810,330.00-6,732.58589.27715,465.26715,467.3232.29125-103,76981617,200.00	15,900.00	90.00	179.68	10,330.00	-5,432.60	582.06	471,765.24	715,459.00	32.295699	-103,769818
	· 16,000.00	90,00	179.68	10,330.00	-5,532.60	582.61	471,665.24	715,459.55	32,295424	-103.769818
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16,100.00	90.00	179.68	10,330.00	-5,632.60	583,16	471,565.25	715,460.11	32.295149	-103.769817
16,300.0090.00179.6810,330.00-5,832.59584.27471,365.25715,461.2232.284359-103,7681716,500.0090.00179.6810,330.00-5,932.59584.83471,265.25715,461.7732.284324-103,7681716,500.0090.00179.6810,330.00-6,132.59585.94471,085.25715,462.3332.294049-103,7681716,600.0090.00179.6810,330.00-6,332.59586.44470,965.26715,463.4432.283205-103,76881716,600.0090.00179.6810,330.00-6,332.59587.60470,965.26715,465.1032.289250-103,76881716,900.0090.00179.6810,330.00-6,532.58588.15470,655.26715,465.1032.282255-103,76881717,100.0090.00179.6810,330.00-6,532.58588.71470,655.26715,465.1032.282125-103,76881617,200.0090.00179.6810,330.00-6,332.58589.24470,365.27715,467.5132.28110-103,76881617,400.0090.00179.6810,330.00-7,32.57591.4470,065.27715,467.7332.29155-103,76881617,600.0090.00179.6810,330.00-7,32.57591.24470,052.77715,467.8732.29155-103,76881617,600.0090.00179.6810,330.00-7,32.57591.24499,952.77715,467.8732.29155-103,76881617,600.0090.00 <td>16,200.00</td> <td>90.00</td> <td>179.68</td> <td>10,330.00</td> <td>-5,732.59</td> <td>583.72</td> <td>471,465.25</td> <td>715,460.66</td> <td>32.294874</td> <td>-103.769817</td>	16,200.00	90.00	179.68	10,330.00	-5,732.59	583.72	471,465.25	715,460.66	32.294874	-103.769817
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16,300.00	90,00	179.68	10,330.00	-5,832.59	584.27	471,365.25	715,461.22	32.294599	-103,769817
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16,400.00	90.00	179.68	10,330.00	-5,932.59	584.83	471,265,25	715,461,77	32,294324	-103.769817
16,500,00 90,00 179,68 10,330,00 -6,13,29 585,84 471,052,25 715,462,86 32,293,75 -103,769817 16,700,00 90,00 179,68 10,330,00 -6,332,59 587,04 470,865,26 715,463,49 32,293500 -103,769817 16,900,00 90,00 179,68 10,330,00 -6,432,58 587,60 470,765,26 715,464,54 32,29275 -103,769817 17,000,00 90,00 179,68 10,330,00 -6,632,58 588,15 470,865,26 715,465,10 32,292470 -103,769816 17,200,00 90,00 179,68 10,330,00 -6,632,58 589,26 470,465,26 715,466,71 32,292400 -103,769816 17,400,00 90,00 179,68 10,330,00 -6,832,58 589,82 470,465,27 715,467,87 32,291350 -103,769816 17,400,00 90,00 179,68 10,330,00 -7,32,57 590,92 470,465,27 715,467,87 32,291301 -103,769816 17,500,00 90,00	16,500,00	90.00	179.68	10,330.00	-6,032.59	585.38	471,165.25	715,462.33	32.294049	-103.769817
16,700.00 90.00 179.88 10,330.00 -6,232.59 580.49 470,965.26 715,463.44 32,29325 -103,769817 16,900.00 90.00 179.68 10,330.00 -6,532.58 587.64 470,665.26 715,463.99 32,293255 -103,769817 17,000.00 90.00 179.68 10,330.00 -6,632.58 588.15 470,655.26 715,465.10 32,292425 -103,769816 17,100.00 90.00 179.68 10,330.00 -6,632.58 588.76 470,455.26 715,465.65 32,292400 -103,769816 17,200.00 90.00 179.68 10,330.00 -6,632.58 589.26 470,455.26 715,466.76 32,291850 -103,769816 17,400.00 90.00 179.68 10,330.00 -6,732.58 590.37 470,455.27 715,467.73 32,291350 -103,769816 17,600.00 90.00 179.68 10,330.00 -7,132.57 591.48 470,055.27 715,467.73 32,291026 -103,769816 17,600.00 90.00 179.68 10,330.00 -7,432.57 592.59 469,965.28 715,468.4	16,600.00	90.00	1/9.68	10,330,00	-0,132.59	565,94	471,065.25	715,462.88	32.293/75	-103./6981/
16,000,00 90,00 179,68 10,330,00 -6,32,23 587,60 470,662,26 715,464,54 32,292,675 -103,769817 17,000,00 90,00 179,68 10,330,00 -6,632,58 587,60 470,665,26 715,464,54 32,292,675 -103,769817 17,000,00 90,00 179,68 10,330,00 -6,632,58 588,71 470,665,26 715,466,65 32,292,100 -103,769816 17,200,00 90,00 179,68 10,330,00 -6,632,58 589,82 470,465,26 715,466,76 32,291350 -103,769816 17,400,00 90,00 179,68 10,330,00 -6,832,58 589,82 470,465,27 715,467,32 32,291350 -103,769816 17,600,00 90,00 179,68 10,330,00 -7,32,57 590,92 470,465,27 715,466,78 32,291301 -103,769816 17,600,00 90,00 179,68 10,330,00 -7,322,57 592,03 469,855,28 715,466,98 32,291026 -103,769816 17,600,00 90,00 179,68 10,330,00 -7,332,57 592,59 469,855,28 715,470	16,700.00	90,00	170.68	10,330.00	-0,232.39	500.49	470,900.20	715,403,44	32.293500	+103,769817
17,000.00 90.00 179.68 10,330.00 -6,532.58 588.15 470,652.26 715,465.10 32,292.50 -103,769817 17,000.00 90.00 179.68 10,330.00 -6,632.58 588.15 470,655.26 715,465.10 32,292400 -103,769816 17,200.00 90.00 179.68 10,330.00 -6,632.58 589.22 470,465.26 715,465.11 32,292125 -103,769816 17,400.00 90.00 179.68 10,330.00 -6,632.58 589.22 470,465.27 715,467.61 32,291850 -103,769816 17,400.00 90.00 179.68 10,330.00 -7,032.57 590.92 470,165.27 715,467.87 32,291301 -103,769816 17,700.00 90.00 179.68 10,330.00 -7,32.57 592.03 469,965.27 715,468.98 32,290476 -103,769816 17,900.00 90.00 179.68 10,330.00 -7,32.57 592.19 469,965.27 715,468.95 32,290476 -103,769816 17,900.00 90.00 179.68 10,330.00 -7,32.57 592.19 469,965.28 715,470.93<	16,800.00	90,00	179.00	10,330.00	-0,332.39	587.60	470,003.20	715,403.99	32.283223	-103,709017
17,000,00 90,00 179,68 10,330,00 -6,32.58 588,71 470,565.26 715,465,65 32.292400 -103,769816 17,200,00 90,00 179,68 10,330,00 -6,632.58 588,71 470,565.26 715,465,65 32.292400 -103,769816 17,400,00 90,00 179,68 10,330,00 -6,832.58 589,82 470,365.27 715,466,76 32.291850 -103,769816 17,400,00 90,00 179,68 10,330,00 -6,832.58 590,92 470,165.27 715,467,87 32.291301 -103,769816 17,600,00 90,00 179,68 10,330,00 -7,332.57 591,48 470,065,27 715,468,42 32.291026 -103,769816 17,700,00 90,00 179,68 10,330,00 -7,332.57 592,03 469,865,27 715,468,98 32.290751 -103,769816 17,900,00 90,00 179,68 10,330,00 -7,332.57 593,14 469,765,28 715,470,64 32.290201 -103,769816 17,900,00 90,00 179,68 10,330,00 -7,532.57 593,70 469,665,28 715,470,6	17 000.00	90.00	179.68	10,330,00	-6 532 58	588 15	470,705.20	715,464,54	32.292930	-103.(09817
17,200.00 90.00 179.68 10,330.00 -6,732.58 589.26 470,465.26 715,466.21 32.291850 -103.769816 17,400.00 90.00 179.68 10,330.00 -6,832.58 589.82 470,365.27 715,466.76 32.291850 -103.769816 17,400.00 90.00 179.68 10,330.00 -6,832.58 590.92 470,165.27 715,467.32 32.291850 -103.769816 17,600.00 90.00 179.68 10,330.00 -7,32.57 591.48 470,065.27 715,467.87 32.29106 -103.769816 17,700.00 90.00 179.68 10,330.00 -7,332.57 592.59 469,865.28 715,469.53 32.290476 -103,769816 17,900.00 90.00 179.68 10,330.00 -7,532.57 593.14 469,655.28 715,470.09 32.290201 -103.769816 17,900.00 90.00 179.68 10,330.00 -7,632.57 593.70 469,655.28 715,470.64 32.289926 -103,769816 18,000.0 90.00 179.68 10,330.00 -7,632.57 594.25 469,655.28 715,471.75<	17,000.00	90,00	179.68	10,330,00	-6 632 58	588 71	470,565,26	715 465 65	32,292070	-103 769816
17,300,00 90,00 179,68 10,330,00 -6,832,58 598,82 470,365,27 715,466,76 32,291555 -103,769816 17,400,00 90,00 179,68 10,330,00 -6,932,57 590,92 470,165,27 715,466,76 32,291575 -103,769816 17,600,00 90,00 179,68 10,330,00 -7,032,57 590,92 470,165,27 715,466,76 32,291026 -103,769816 17,600,00 90,00 179,68 10,330,00 -7,132,57 591,48 470,065,27 715,468,42 32,291026 -103,769816 17,700,00 90,00 179,68 10,330,00 -7,332,57 592,03 469,965,27 715,468,98 32,290751 -103,769816 17,800,00 90,00 179,68 10,330,00 -7,332,57 592,19 469,965,28 715,469,53 32,290751 -103,769816 18,000,00 90,00 179,68 10,330,00 -7,32,57 593,70 469,665,28 715,470,64 32,289926 -103,769816 18,000,00 90,00 179,68 10,330,00 -7,732,56 594,25 469,652,28 715,471,7	17,200.00	90.00	179.68	10,330.00	-6.732.58	589.26	470,465,26	715,466,21	32,292125	-103.769816
17,400.00 90.00 179.68 10,330.00 -6,932.58 590.37 470,265.27 715,467.32 32.291575 -103.769816 17,500.00 90.00 179.68 10,330.00 -7,032.57 590.92 470,165.27 715,467.87 32.291301 -103.769816 17,600.00 90.00 179.68 10,330.00 -7,132.57 591.48 470,065.27 715,467.87 32.291026 -103.769816 17,700.00 90.00 179.68 10,330.00 -7,232.57 592.03 469,965.27 715,468.98 32.290751 -103.769816 17,800.00 90.00 179.68 10,330.00 -7,432.57 593.14 469,965.28 715,470.09 32.290201 -103.769816 18,000.00 90.00 179.68 10,330.00 -7,432.57 593.70 469,665.28 715,471.40 32.28026 -103.769816 18,000.00 90.00 179.68 10,330.00 -7,732.56 594.25 469,665.28 715,471.40 32.289376 -103.769816 18,200.00 90.00 179.68 10,330.00 -7,332.56 594.25 469,65.28 715,471.45	17.300.00	90.00	179.68	10.330.00	-6.832.58	589.82	470.365.27	715,466,76	32.291850	-103,769816
17,500.00 90.00 179.68 10,330.00 -7,032.57 590.92 470,165.27 715,467.87 32.291301 -103.769816 17,600.00 90.00 179.68 10,330.00 -7,132.57 591.48 470,065.27 715,468.42 32.291026 -103.769816 17,700.00 90.00 179.68 10,330.00 -7,232.57 592.03 469,965.27 715,468.98 32.290751 -103.769816 17,800.00 90.00 179.68 10,330.00 -7,332.57 592.13 469,965.28 715,469.53 32.290476 -103.769816 17,900.00 90.00 179.68 10,330.00 -7,432.57 593.14 469,765.28 715,470.09 32.290201 -103.769816 18,000.00 90.00 179.68 10,330.00 -7,532.57 594.25 469,665.28 715,471.20 32.289651 -103,769816 18,000.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,365.28 715,471.75 32.289376 -103.769815 18,000.00 90.00 179.68 10,330.00 -7,832.56 595.91 469,365.28 715,471.	17,400.00	90,00	179.68	10,330,00	-6,932.58	590.37	470,265.27	715,467,32	32.291575	-103.769816
17,600,00 90,00 179.68 10,330,00 -7,132.57 591.48 470,065.27 715,468.42 32.291026 -103,769816 17,700,00 90,00 179.68 10,330,00 -7,232.57 592.03 469,965.27 715,468.98 32.290751 -103,769816 17,800,00 90,00 179.68 10,330,00 -7,332.57 592.59 469,865.28 715,469,53 32.290476 -103,769816 17,900,00 90,00 179.68 10,330,00 -7,432.57 593.14 469,765.28 715,470,09 32.290201 -103,769816 18,000,00 90,00 179.68 10,330,00 -7,532.57 593.70 469,655.28 715,471,64 32.289926 -103,769816 18,000,00 90,00 179.68 10,330,00 -7,632.57 594.25 469,655.28 715,471,75 32.289926 -103,769815 18,200,00 90,00 179.68 10,330,00 -7,732.56 594.81 469,65.28 715,471,75 32.289102 -103,769815 18,400,00 90,00 179.68 10,330,00 -7,932.56 595.91 469,265.29 715,473.4	17,500.00	90.00	179.68	10,330.00	-7,032.57	590.92	470,165.27	715,467.87	32,291301	-103.769816
17,700.00 90.00 179.68 10,330.00 -7,232.57 592.03 469,965.27 715,468.98 32,290751 -103,769816 17,800.00 90.00 179.68 10,330.00 -7,332.57 592.59 469,865.28 715,469.53 32,290476 -103,769816 17,900.00 90.00 179.68 10,330.00 -7,432.57 593.14 469,765.28 715,470.09 32,290201 -103,769816 18,000.00 90.00 179.68 10,330.00 -7,532.57 593.70 469,665.28 715,471.64 32,289926 -103,769816 18,100.00 90.00 179.68 10,330.00 -7,632.57 594.25 469,655.28 715,471.70 32,289376 -103,769816 18,200.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,465.28 715,471.75 32,289376 -103,769815 18,300.00 90.00 179.68 10,330.00 -7,832.56 595.36 469,365.28 715,471.75 32,289376 -103,769815 18,400.00 90.00 179.68 10,330.00 -8,032.56 596.47 469,165.29 715,473.	17,600.00	90.00	179.68	10,330.00	-7,132.57	591.48	470,065.27	715,468.42	32.291026	-103.769816
17,800.00 90.00 179.68 10,330.00 -7,332.57 592.59 469,865.28 715,469.53 32.290476 -103,769816 17,900.00 90.00 179.68 10,330.00 -7,432.57 593.14 469,765.28 715,470.09 32.290201 -103,769816 18,000.00 90.00 179.68 10,330.00 -7,532.57 593.70 469,665.28 715,470.64 32.289926 -103,769816 18,000.00 90.00 179.68 10,330.00 -7,632.57 594.25 469,655.28 715,471.20 32.289376 -103,769816 18,200.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,465.28 715,471.75 32.289376 -103,769815 18,300.00 90.00 179.68 10,330.00 -7,832.56 595.36 469,365.28 715,472.30 32.289102 -103,769815 18,400.00 90.00 179.68 10,330.00 -7,932.56 595.91 469,365.29 715,473.41 32.288277 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,032.56 597.58 469,065.29 715,473.	17,700.00	90.00	179.68	10,330.00	-7,232.57	592.03	469,965.27	715,468.98	32.290751	-103.769816
17,900.00 90.00 179.68 10,330.00 -7,432.57 593.14 469,765.28 715,470.09 32,290201 -103,769816 18,000.00 90.00 179.68 10,330.00 -7,532.57 593.70 469,665.28 715,470.64 32,289926 -103,769816 18,100.00 90.00 179.68 10,330.00 -7,632.57 594.25 469,565.28 715,471.20 32,289651 -103,769816 18,200.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,465.28 715,471.75 32,289376 -103,769815 18,300.00 90.00 179.68 10,330.00 -7,832.56 595.36 469,365.28 715,472.30 32,289102 -103,769815 18,400.00 90.00 179.68 10,330.00 -7,932.56 595.91 469,265.29 715,473.41 32,288277 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,032.56 597.58 469,065.29 715,473.41 32,288027 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,132.56 597.58 469,065.29 715,473.	17,800.00	90.00	179.68	10,330.00	-7,332.57	592,59	469,865.28	715,469.53	32.290476	-103.769816
18,000.00 90.00 179.68 10,330.00 -7,532.57 593.70 469,665.28 715,470.64 32,289926 -103,769816 18,100.00 90.00 179.68 10,330.00 -7,632.57 594.25 469,565.28 715,471.20 32,289651 -103,769816 18,200.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,465.28 715,471.75 32,289376 -103,769815 18,300.00 90.00 179.68 10,330.00 -7,832.56 595.36 469,365.28 715,472.30 32,289102 -103,769815 18,400.00 90.00 179.68 10,330.00 -7,932.56 595.91 469,265.29 715,473.41 32,288277 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,032.56 597.52 469,065.29 715,473.41 32,288027 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,132.56 597.58 469,065.29 715,473.97 32,288022 -103,769815 18,600.00 90.00	17,900.00	90.00	179.68	10,330.00	-7,432.57	593.14	469,765.28	715,470.09	32.290201	-103.769816
18,100.00 90.00 179.68 10,330.00 -7,632.57 594.25 469,565.28 715,471.20 32,289651 -103,769816 18,200.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,465.28 715,471.75 32,289376 -103,769815 18,300.00 90.00 179.68 10,330.00 -7,832.56 595.36 469,365.28 715,472.30 32,289102 -103,769815 18,400.00 90.00 179.68 10,330.00 -7,932.56 595.91 469,265.29 715,472.86 32,288827 -103,769815 18,500.00 90.00 179.68 10,330.00 -8,032.56 596.47 469,065.29 715,473.41 32,288552 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,032.56 597.52 469,065.29 715,473.97 32,288022 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,965.29 715,474.52 32,288002 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,965.29 715,475.	18,000.00	90.00	179.68	10,330.00	-7,532.57	593.70	469,665.28	715,470.64	32,289926	-103,769816
18,200.00 90.00 179.68 10,330.00 -7,732.56 594.81 469,465.28 715,471.75 32,289376 -103,769815 18,300.00 90.00 179.68 10,330.00 -7,82.56 595.36 469,365.28 715,472.30 32,289102 -103,769815 18,400.00 90.00 179.68 10,330.00 -7,932.56 595.91 469,265.29 715,472.36 32,288827 -103,769815 18,500.00 90.00 179.68 10,330.00 -8,032.56 596.47 469,265.29 715,473.41 32,288552 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,032.56 597.02 469,065.29 715,473.41 32,288277 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,965.29 715,474.52 32,288002 -103,769815 18,800.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,865.29 715,475.08 32,287727 -103,769815 18,900.00 90.00	18,100.00	90,00	179,68	10,330.00	-7,632,57	594.25	469,565.28	715,471.20	32.289651	-103.769816
18,300,00 90.00 179.68 10,330.00 -7,832.56 595.36 469,365.28 715,472.30 32,288102 -103,769815 18,400.00 90.00 179.68 10,330.00 -7,932.56 595.91 469,265.29 715,472.36 32,288827 -103,769815 18,500.00 90.00 179.68 10,330.00 -8,032.56 596.47 469,065.29 715,473.41 32,288552 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,032.56 597.02 469,065.29 715,473.97 32,288027 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,132.56 597.02 469,065.29 715,473.97 32,288027 -103,769815 18,700.00 90.00 179.68 10,330.00 -8,32.55 598.13 468,965.29 715,474.52 32,288002 -103,769815 18,800.00 90.00 179.68 10,330.00 -8,32.55 598.69 468,765.29 715,475.63 32,287727 -103,769815 18,900.00 90.00 179.68 10,330.00 -8,532.55 599.24 468,665.30 715,475.61	18,200.00	90.00	179.68	10,330.00	-7,732.56	594.81	469,465.28	715,471.75	32.289376	-103.769815
18,400,00 90,00 179,68 10,330,00 -r,932,56 595,91 469,252,99 715,472,86 32,288827 -103,769815 18,500,00 90,00 179,68 10,330,00 -8,032,56 596,47 469,165,29 715,473,41 32,288527 -103,769815 18,600,00 90,00 179,68 10,330,00 -8,032,56 597,02 469,065,29 715,473,97 32,28802 -103,769815 18,700,00 90,00 179,68 10,330,00 -8,32,55 598,13 468,965,29 715,474,52 32,288002 -103,769815 18,800,00 90,00 179,68 10,330,00 -8,332,55 598,13 468,865,29 715,475,08 32,287727 -103,769815 18,900,00 90,00 179,68 10,330,00 -8,432,55 598,69 468,765,29 715,475,63 32,287727 -103,769815 19,000,00 90,00 179,68 10,330,00 -8,532,55 599,24 468,665,30 715,476,18 32,287177 -103,769815 19,100,00 90,00	18,300.00	90,00	179.68	10,330.00	-7,832.56	595,36	469,365.28	/15,4/2.30	32.289102	-103./69815
18,500.00 90.00 179.68 10,330.00 -6,522.56 597.02 469,065.29 715,473.47 52,26852 -103,769815 18,600.00 90.00 179.68 10,330.00 -8,132.56 597.02 469,065.29 715,473.97 32,288072 -103,769815 18,700.00 90.00 179.68 10,330.00 -8,232.56 597.58 469,065.29 715,475.08 32,287727 -103,769815 18,800.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,865.29 715,475.08 32,287727 -103,769815 18,900.00 90.00 179.68 10,330.00 -8,432.55 598.69 468,765.29 715,475.63 32,287452 -103,769815 19,000.00 90.00 179.68 10,330.00 -8,532.55 599.24 468,665.30 715,476.18 32,287177 -103,769815 19,100.00 90.00 179,68 10,330.00 -8,632.55 599.79 468,655.30 715,476.74 32,28603 -103,769815 19,100.00 90.00	18,400.00	90.00	179.00	10,330,00	-7,932,56	595,91	469,265,29	715,472,85	32,288827	-103./69815
10,000,00 90.00 179,68 10,330,00 -8,232.56 597,58 468,965.29 715,474.52 32,288002 -103,769815 18,700,00 90.00 179,68 10,330,00 -8,332.55 598,13 468,865,29 715,474.52 32,287727 -103,769815 18,900,00 90.00 179,68 10,330,00 -8,332.55 598,13 468,865,29 715,475,63 32,287452 -103,769815 18,900,00 90.00 179,68 10,330,00 -8,432.55 598,69 468,765,29 715,475,63 32,287452 -103,769815 19,000,00 90.00 179,68 10,330,00 -8,532.55 599,24 468,665,30 715,476,18 32,287177 -103,769815 19,100,00 90.00 179,68 10,330,00 -8,632.55 599,79 468,665,30 715,476,74 32,286903 -103,769815 19,100,00 90.00 179,68 10,330,00 -8,632,55 599,79 468,565,30 715,476,74 32,286903 -103,769815 19,100,00 90.00	18,500,00	90,00	179.00	10,330,00	-0,032.30	590,47	409,100,29	71547341	32.200002	-103,709815
18,800.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,865.29 715,475.08 32.287727 -103.769815 18,900.00 90.00 179.68 10,330.00 -8,332.55 598.13 468,865.29 715,475.08 32.287452 -103.769815 19,000.00 90.00 179.68 10,330.00 -8,532.55 599.24 468,665.30 715,476.18 32.287177 -103.769815 19,000.00 90.00 179.68 10,330.00 -8,532.55 599.24 468,665.30 715,476.18 32.287177 -103.769815 19,100.00 90.00 179.68 10,330.00 -8,632.55 599.79 468,565.30 715,476.74 32.286903 -103.769815 19,100.00 90.00 179.68 10,330.00 -8,632.55 599.79 468,565.30 715,476.74 32.286903 -103.769815	18 700 00	90.00	179.68	10,330,00	-8 232 56	597 58	468 965 29	715 474 52	32 288002	-103 769815
18,900.00 90.00 179.68 10,330.00 -8,432.55 598.69 468,765.29 715,475.63 32.287452 -103.769815 19,000.00 90.00 179.68 10,330.00 -8,532.55 599.24 468,665.30 715,476.18 32.287177 -103.769815 19,000.00 90.00 179.68 10,330.00 -8,532.55 599.24 468,665.30 715,476.18 32.287177 -103.769815 19,100.00 90.00 179.68 10,330.00 -8,632.55 599.79 468,565.30 715,476.74 32.286903 -103.769815 19,100.00 90.00 179.68 10,330.00 -8,632.55 599.79 468,565.30 715,476.74 32.286903 -103.769815	18,800.00	90.00	179.68	10.330.00	-8.332.55	598.13	468,865,29	715.475.08	32,287727	-103,769815
19.000.00 90.00 179.68 10.330.00 -8.532.55 599.24 468.665.30 715.476.18 32.287177 -103.769815 19.100.00 90.00 179.68 10.330.00 -8.632.55 599.79 468.565.30 715.476.74 32.286903 -103.769815 19.100.00 90.00 179.68 10.330.00 -8.632.55 599.79 468.565.30 715.476.74 32.286903 -103.769815	18,900,00	90.00	179.68	10,330.00	-8,432.55	598.69	468,765,29	715,475.63	32.287452	-103.769815
19,100.00 90.00 179.68 10,330.00 -8,632.55 599.79 468,565.30 715,476.74 32.286903 -103.769815	19,000.00	90.00	179.68	10,330.00	-8,532.55	599,24	468,665.30	715,476.18	32.287177	-103.769815
	19,100.00	90.00	179.68	10,330.00	-8,632.55	599,79	468,565.30	715,476.74	32.286903	-103.769815
19,200,00 90,00 179,68 10,330,00 -8,732,55 600,35 468,465,30 715,477,29 32,286628 -103,769815	19,200.00	90.00	179.68	10,330,00	-8,732.55	600,35	468,465,30	715,477.29	32.286628	-103.769815
19,300.00 90.00 179.68 10,330.00 -8,832,55 600.90 468,365.30 715,477.85 32,286353 -103.769814	19,300.00	90.00	179.68	10,330.00	-8,832,55	600.90	468,365.30	715,477.85	32.286353	-103.769814
19,400.00 90.00 179.68 10,330.00 -8,932.55 601.46 468,265.30 715,478.40 32.286078 -103.769814	19,400.00	90.00	179.68	10,330.00	-8,932.55	601.46	468,265.30	715,478.40	32.286078	-103.769814
19,500.00 90.00 179.68 10,330.00 -9,032.54 602.01 468,165.30 715,478.96 32,285803 -103.769814	19,500.00	90.00	179.68	10,330.00	-9,032.54	602.01	468,165.30	715,478.96	32.285803	-103.769814
19,600,00 90,00 179,68 10,330,00 -9,132,54 602,57 468,065,31 715,479,51 32,285528 -103,769814	19,600.00	90.00	179.68	10,330.00	-9,132.54	602.57	468,065.31	715,479.51	32.285528	-103.769814
19,700.00 90.00 179.68 10,330.00 -9,232.54 603,12 467,965,31 715,480.07 32,285253 -103.769814	19,700.00	90.00	179.68	10,330.00	-9,232,54	603,12	467,965.31	715,480.07	32,285253	-103.769814
19,800,00 90,00 179,68 10,330,00 -9,332,54 603,67 467,865,31 715,480,62 32,284978 -103,769814	19,800.00	90.00	179.68	10,330.00	-9,332.54	603,67	467,865,31	715,480.62	32.284978	-103.769814
19,900.00 90.00 179.68 10,330.00 -9,432.54 604.23 467,765.31 715,481.17 32,284704 -103.769814	19,900.00	90.00	179.68	10,330.00	-9,432.54	604.23	467,765.31	715,481.17	32.284704	-103,769814
20,000,00 90,00 1/9,68 10,330,00 -9,532,54 604,78 467,665,31 /15,481,73 32,284429 -103,769814	20,000.00	90.00	179.68	10,330,00	-9,532.54	604,78	467,665.31	/15,481./3	32,284429	-103,769814
20,100,00 90,00 1/3,00 10,330,00 -3,032,03 000,34 407,355,32 /15,452,28 32,254154 -103,769814 20,262944	20,100.00	90.00	1/9,68	10,330,00	-9,032,53	000,34 605 90	407 000.32	715,402,20	32,284134	-103./09814
20,200,00 30,00 1/3,00 10,30,00 -3,132,33 003,03 407,403,32 /13,402,04 32,2038/9 -103,709814 20,200,00 00 00 170 68 10,230,00 0,2822,53 606,45 467,265,25 745,483,20 23,282604 403,760843	20,200.00	90.00	1/9,00	10,330,00	-9,132.53	600.89 606 45	401,400.32	715,402.04	32,2030/9	-103./09814
20,300,00 30,00 173,00 10,330,00 -3,332,33 00,43 407,303,32 715,453,33 32,203604 -103,769813	20,300.00	90.00	179,00	10,330.00	-9,032,53 -0,032,53	607 00	401,000.32	113,403.38	32.203004	-103./09813
20,500,00 90,00 179,68 10,330,00 -10,032,53 607,56 467,165,32 715,484,50 32,283054 -103,769813	20,500.00	90.00	179.68	10,330.00	-10.032.53	607.56	467.165.32	715.484.50	32.283054	-103.769813

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EDM r5000.141_Prod US WCDSC Permian NM Eddy County (NAD 83 NM Eastern) Sec 15-T23S-R31E Maldives 15-27 Fed Com 232H Wellbore #1 134 Permit Plan 2

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Database Company:

Project:

Site:

Well: Wellbore:

Design:

Planned Survey

Local Co-ordinate Reference: Well Maldives 15-27 Fed Com 232H TVD Reference: RKB @ 3412.50ft MD:Reference: RKB @ 3412.50ft North Reference: Grid MD Reference: MD Reference: North Reference: Survey.Calculation Method: 반값격

Minimum Curvature

Moscurod			North of						
Denth	Inclination	Azimuth	Denth		E W	Map *	Castloo		
(h)	Ameniation -		(fft)		+EJ.W	(instri)	Casting &		
		· · ·			14		Later State	Laninge	rongimae
20,600.00	90.00	179.68	10,330.00	-10,132.53	608,11	467,065.32	715,485.05	32,282779	-103,769813
20,700.00	90.00	179.68	10,330.00	-10,232.53	608.66	466,965.33	715,485.61	32.282505	-103.769813
20,800.00	90,00	179.68	10,330.00	-10,332.52	609.22	466,865.33	715,486.16	32.282230	-103.769813
20,900.00	90,00	179.68	10,330.00	-10,432.52	609.77	466,765.33	715,486.72	32,281955	-103,769813
21,000.00	90.00	179.68	10,330,00	-10,532,52	610,33	466,665.33	715,487.27	32,281680	-103.769813
21,100.00	90.00	179.68	10,330.00	-10,632.52	610.88	466,565.33	715,487.83	32.281405	-103.769813
21,200.00	90.00	179.68	10,330.00	-10,732.52	611.44	466,465.33	715,488.38	32.281130	-103.769813
21,300,00	90,00	179.68	10,330,00	-10,832.52	611.99	466,365.34	/15,488.93	32.280855	-103,769813
21,400.00	90.00	179.00	10,330.00	-10,932,51	612.54	466,265,34	715,489,49	32,280580	-103.769812
21,500.00	90.00	170.69	10,330.00	-11,032.51	613.10	400,100.34	715,490,04	32.280305	-103.769812
21,000.00	90.00	179.00	10,330,00	-11,132.51	614 21	466,065,34	715,490.00	32.200031	-103.769812
21,800,00	90,00	179.68	10,330,00	-11 332 51	614.21	465 865 34	715 491 71	32.279730	-103./03012
21 900.00	90.00	179.68	10,330,00	-11 432 51	615.32	465 765 35	715 492 26	32,279401	-103,709812
22.000.00	90.00	179.68	10.330.00	-11 532 51	615.87	465 665 35	715 492 81	32,278931	-103 769812
22,100.00	90,00	179.68	10.330.00	-11.632.50	616.42	465,565,35	715 493 37	32 278656	-103 769812
22,200.00	90,00	179.68	10.330.00	-11.732.50	616.98	465,465,35	715 493 92	32 278381	-103 769812
22,300.00	90.00	179.68	10,330.00	-11.832.50	617.53	465,365,35	715,494,48	32,278106	-103,769812
22,400.00	90.00	179.68	10,330.00	-11,932.50	618.09	465,265,36	715,495,03	32,277832	-103.769812
22,500.00	90.00	179.68	10,330.00	-12,032.50	618,64	465,165,36	715,495,59	32,277557	-103,769811
22,600.00	90.00	179.68	10,330.00	-12,132.50	619.20	465,065.36	715,496,14	32,277282	-103,769811
22,700.00	90,00	179.68	10,330.00	-12,232.49	619.75	464,965.36	715,496.70	32.277007	-103,769811
22,800.00	90.00	179.68	10,330.00	-12,332.49	620.30	464,865,36	715,497.25	32,276732	-103,769811
22,900.00	90.00	179.68	10,330.00	-12,432.49	620.86	464,765.36	715,497.80	32.276457	-103.769811
23,000.00	90,00	179,68	10,330.00	-12,532,49	621.41	464,665,37	715,498.36	32.276182	-103.769811
23,100.00	90,00	179.68	10,330.00	-12,632.49	621,97	464,565,37	715,498.91	32.275907	-103.769811
23,200.00	90.00	179.68	10,330.00	-12,732.49	622.52	464,465.37	715,499.47	32.275633	-103.769811
23,300.00	90.00	179.68	10,330.00	-12,832.49	623.08	464,365.37	715,500.02	32,275358	-103.769811
23,400.00	90.00	179.68	10,330.00	-12,932.48	623.63	464,265.37	715,500,58	32.275083	-103.769811
23,500.00	90.00	179.68	10,330.00	-13,032,48	624,19	464,165.37	715,501.13	32.274808	-103,769810
23,600.00	90.00	179.68	10,330.00	-13,132.48	624.74	464,065.38	715,501.68	32.274533	-103.769810
23,700.00	90.00	1/9.68	10,330.00	-13,232.48	625.29	463,965.38	715,502.24	32.274258	-103.769810
23,800.00	90,00	1/9.00	10,330,00	-13,332,48	625,85	463,865,38	715,502,79	32.2/3983	-103.769810
23,900.00	90.00	179.00	10,330,00	-13,432.48	626,40	463,765,38	715,503.35	32,273708	-103.769810
24,000.00	90.00	175.00	10,330.00	-13,532.47	620.96	403,003,30	715,503.90	32.273434	-103.769810
24,100.00	90.00	179.00	10,330,00	-13 732 47	628.07	403,303,30	715,504,48	32.273135	-103.769010
24,300.00	90.00	179.68	10 330 00	-13 832 47	628.62	463 365 39	715 505 56	32 272609	-103 769810
24,400.00	90.00	179.68	10.330.00	-13.932.47	629.17	463,265,39	715.506.12	32,272334	-103 769810
24,500.00	90.00	179.68	10,330.00	-14.032.47	629.73	463,165,39	715.506.67	32,272059	-103.769810
24,600.00	90.00	179,68	10,330.00	-14,132.47	630,28	463,065,39	715,507,23	32.271784	-103,769809
24,700.00	90,00	179,68	10,330.00	-14,232.46	630,84	462,965,40	715,507,78	32.271509	-103,769809
24,800.00	90.00	179.68	10,330.00	-14,332.46	631,39	462,865.40	715,508,34	32.271235	-103.769809
24,900.00	90.00	179,68	10,330.00	-14,432.46	631,95	462,765.40	715,508.89	32.270960	-103.769809
25,000.00	90,00	179.68	10,330.00	-14,532.46	632.50	462,665,40	715,509.44	32,270685	-103,769809
25,100.00	90.00	179.68	10,330.00	-14,632.46	633,05	462,565,40	715,510,00	32.270410	-103.769809
25,200.00	90.00	179.68	10,330.00	-14,732,46	633,61	462,465.40	715,510.55	32.270135	-103.769809
25,300.00	90.00	179.68	10,330.00	-14,832,45	634.16	462,365.41	715,511.11	32.269860	-103.769809
25,400.00	90.00	179.68	10,330.00	-14,932.45	634,72	462,265,41	715,511,66	32.269585	-103.769809
25,500.00	90.00	179.68	10,330.00	-15,032.45	635.27	462,165.41	715,512.22	32,269310	-103.769809
25,600.00	90.00	179.68	10,330.00	-15,132.45	635.83	462,065.41	715,512.77	32.269035	-103.769808
25,700.00	90.00	179.68	10,330.00	-15,232.45	636.38	461,965.41	715,513,33	32.268761	-103.769808
25,800.00	90,00	179,68	10,330.00	-15,332.45	636,93	461,865.41	715,513,88	32,268486	-103,769808

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Database: Company: Project: Site: Well: Wellbore: Design:	tabase: EDM r5000.141_Prod US WCDSC Permian NM Eddy County (NAD 83 NM Eastern) Sec 15-T23S-R31E ell: Maldives 15-27 Fed Com 232H ellibore: Permit Plan 2				Local Co-ordinate Référence: Well Maldives 15-27 Fed Com 232H TVD Référence: RKB @ 3412.50ft MD Référence: RKB @ 3412.50ft North Référence: Grid Survey Calculation Method: Minimum Curvature			
Planned Survey Measured Depth Inclin (ft)	nation Az	Verti muth Dep (*) (ft	cal ith: +N/-S)(ft);	+E/W (ft)	Map Northing (ust)	Map Easting (ustt)	Latitude	Lönğitüde
25,809.53 LTP @ 25810' M 25,889.53 PBHL; 20' FSL 25,889.54	90.00 MD, 100' FSI 90.00 , 1360' FWL 90.00	179.68 10,3 ., 1 360' FWL 179.68 10,3 179.68 10,3	330.00 -15,341. 330.00 -15,421. 330.00 -15,421.	98 636.99 98 637.43 98 637.43	461,855.88 461,775.89 461,775.88	715,513,93 715,514.38 715,514.38	32.268240 32.268240 32.268240	-103,769808 -103,769808 -103,769808
Design Targets Target Name - hit/miss target - Shape	Điệ Âng (°)	e DipDir	۲۷D + (ft)	N/-S +E/-W (ft) (ft)	Northing	,Easting (usft)	Latitude	Lõngilude
PBHL - Maldives 511H - plan misses targi - Point	0 et center by	.00 0.01 7232,20ft at 0.0	0.00 -7 Oft MD (0.00 TVD	7,231.22 -119.00 0, 0.00 N, 0.00 E)	5 469,966,62	714,757.90	32.290765	-103.772117
PBHL - Maldives 15-27 - plan misses targ - Point	7 I 0 et center by	.00 0.00 10330.00ft at 25	0.00 -15 5889.54ft MD (103	,421,98 637.4 330.00 TVD, +15421	3 461,775.88 98 N, 637,43 E)	715,514,38	32.268240	-103,769808
Vertical Point - Maldive - plan misses targ - Point	es 0 et center by	.00 0.00 584.98ft at 7708	7,730.00 8.88ft MD (7683.6	348.97 -161.9 36 TVD, 264.10 N, 41	1 477,546.79 15.02 E)	714,715.04	32.311601	-103.772127
Plan Annotations Meas Def	üred pth t)	Vertical Depth (ft)	Local Co +N/-S (ft)	ordinates +E/-₩ (Ťt)	Comment			
9, 10, 15, 25, 25,	790.27 031.42 347.00 309.53 389.53	9,757.04 9,991.13 10,330.00 10,330.00 10,330.00	350.00 300.00 -4,879.61 -15,341.98 -15,421.98	550.00 550.28 578.99 636.99 637.43	KOP @ 9790' M FTP @ 10031' M Cross Section @ LTP @ 25810' M PBHL; 20' FSL,	D, 50' FNL, 1360' FW ID, 100' FNL, 1360' F) 15347' MD, 0' FNL, ID, 100' FSL, 1360' FV 1360' FWL	L ML (360' FWL VL	

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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 13-3/8" 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 9-5/8' 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.

