Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.

	NO LICES WAD KELO				INIVINIVIO403444				
	is form for proposals to II. Use form 3160-3 (AP				6. If Indian, Allottee of	r Tribe	Name		
SUBMIT IN	TRIPLICATE - Other inst	tructions on	page 2		7. If Unit or CA/Agree	ment,	Name and/or No.		
Type of Well	ner				8. Well Name and No. MALDIVES 15-27	FED (COM 232H		
Name of Operator DEVON ENERGY PRODUCT	Contact: ION COM-Mail: jennifer.ha	JENNIFER H rms@dvn.com	ARMS		9. API Well No. 30-015-45384-00-X1				
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA, OK 73102	UE	3b. Phone No Ph: 405-55	(include area code) 2-6560		 Field and Pool or E JAMES RANCH 	Explora	itory Arca		
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, S	State			
Sec 15 T23S R31E NWNW 40 32.310638 N Lat, 103.772484					EDDY COUNTY	', NM			
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	ΓΕ NATURE O	F NOTICE,	REPORT, OR OTH	IER I	DATA		
TYPE OF SUBMISSION			TYPE OF	F ACTION					
Notice of Intent ■	☐ Acidize	☐ Deep	oen	□ Product	ion (Start/Resume)	– 7	Water Shut-Off		
☐ Subsequent Report	☐ Alter Casing		raulic Fracturing	□ Reclam		"	Well Integrity		
	☐ Casing Repair	_	Construction	☐ Recomp			Other ange to Original A		
☐ Final Abandonment Notice	☐ Change Plans		and Abandon		arily Abandon	PD			
13. Describe Proposed or Completed Ope	Convert to Injection	Plug		☐ Water [•				
If the proposal is to deepen directions Attach the Bond under which the won following completion of the involved testing has been completed. Final At determined that the site is ready for f Devon Energy Production Co. referenced well as originally a The SHL is currently permitted 15-23S-31E.	operations. If the operation re pandonment Notices must be fil inal inspection. , L. P. (Devon) respectful poroved on 10-25-2018.	sults in a multipled only after all	e completion or reco requirements, includ change the plar	ompletion in a ling reclamation in a state of the above	new interval, a Form 3160 n, have been completed a ove 310 FWL.	0-4 mu ind the	ist be filed once		
The BHL is currently permitted FWL, 27-23S-31E. The last ta The federal lease numbers the NMNM0405444,NMNM04054 The permitted well name is M. 232H. Please find attached the revis	ke point will be 100 FSL, e lateral will be passing th 44A, NMNM0418220A. ALDIVES 15-22 FED COI	1360 FWL, S nrough are as M 511H and v	ESW 27-23S-31 follows: vill change to MA	E.	1360 Distri	ت	-ARTESIAO.C.E		
14. I hereby certify that the foregoing is	true and correct. Electronic Submission # For DEVON ENERG mitted to AFMSS for proc	Y PRODUCTION	N COM LP, sent	to the Carls	baď				
Namc (Printed/Typed) JENNIFER	R HARMS		Title REGUL	ATORY CO	MPLIANCE ANALYS	ST			
•									
Signature (Electronic S	Submission)		Date 03/18/2	019					
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE				
Approved By CODY LAYTON			TitleASSIST F	IFI D MANA	GER LANDS MINER	RALS	Date 03/26/2019		
Conditions of approval, if any, are attache certify that the applicant holds legal or equivifich would entitle the applicant to conduct the conduction of th	uitable title to those rights in the		Office Carlsbac			<u></u>			
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	crime for any pe to any matter w	rson knowingly and		ake to any department or	agency	y of the United		

Revisions to Operator-Submitted EC Data for Sundry Notice #458282

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH

NOI

Lease:

NMNM0405444

NMNM0405444

Agreement:

Operator:

DEVON ENERGY PRODUCTION COMPAN 333 WEST SHERIDAN AVENUE OKLAHOMA CITY, OK 73102-5015 Ph: 405-552-6560

JENNIFER HARMS

REGULATORY COMPLIANCE ANALYST

E-Mail: jennifer.harms@dvn.com

Ph: 405-552-6560

Tech Contact:

Admin Contact:

JENNIFER HARMS REGULATORY COMPLIANCE ANALYST

E-Mail: jennifer.harms@dvn.com

Ph: 405-552-6560

Location: State:

County:

EDDY

Field/Pool:

JAMES RANCH; BONESPRING

Well/Facility:

MALDIVES 15-22 FED COM 511H Sec 15 T23S R31E NWNW 400FNL 540FWL

APDCH NOI

DEVON ENERGY PRODUCTION COM LP 333 WEST SHERIDAN AVENUE OKLAHOMA, OK 73102 Ph: 405 552 6571

JENNIFER HARMS REGULATORY COMPLIANCE ANALYST E-Mail: jennifer.harms@dvn.com

Ph: 405-552-6560

JENNIFER HARMS
REGULATORY COMPLIANCE ANALYST

E-Mail: jennifer.harms@dvn.com

Ph: 405-552-6560

NM EDDY

JAMES RANCH

MALDIVES 15-27 FED COM 232H Sec 15 T23S R31E NWNW 400FNL 540FWL 32.310638 N Lat, 103.772484 W Lon

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

COA.

H2S	CYes	© No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	© Low	O Medium	CHigh
Variance	ONone	Flex Hose	Other
Wellhead	Conventional	○ Multibowl	€ Both
Other	☐4 String Area	Capitan Reef	WIPP
Other	☑ Fluid Filled		Pilot Hole
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

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

the lead cement slurry due to cave/karst or potash.

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

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

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 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

- 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

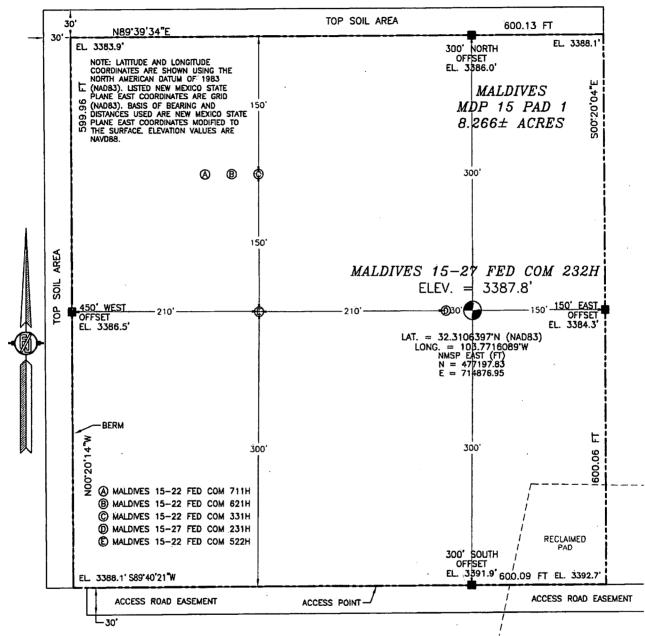
plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not 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.





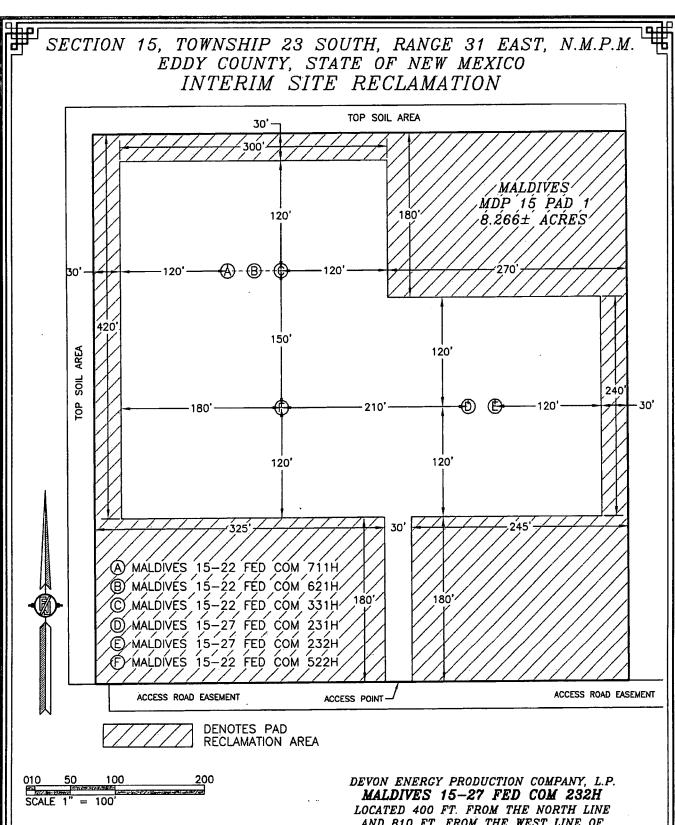
= 100' 100 200 SCALE 1" = 100'
DIRECTIONS TO LOCATION

DIRECTIONS TO LOCATION
FROM STATE HWY. 128 & CR. 798 (RED ROAD) GO NORTH ON RED
ROAD 2.2 MILES, TURN LEFT ON CALICHE ROAD AND GO NORTHWEST
1.8 MILES, TURN RIGHT AND GO NORTH 0.6 MILE, TURN LEFT AND
GO WEST 0.25 MILE, TURN RIGHT AND GO NORTH 0.25 MILE, TO THE
TODD 15C FED 3 WELL FROM SOUTHWEST EDGE OF PAD FOLLOW
FLAGS WEST—SOUTHWEST 72' TO THE SOUTHEAST CORNER OF PAD 2,
THEN FOLLOW FLAGS WEST 1110' TO THE SOUTHEAST CORNER OF
PAD FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P. MALDIVES 15-27 FED COM 232H LOCATED 400 FT. FROM THE NORTH LINE AND 810 FT. FROM THE WEST LINE OF SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 25, 2019

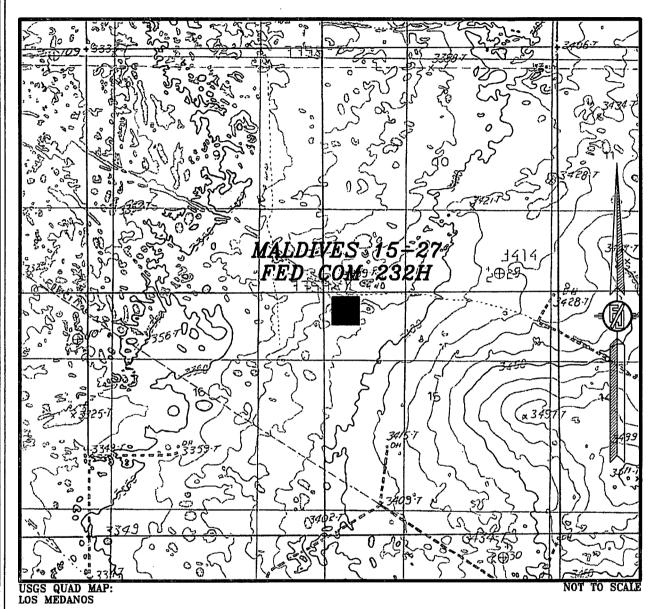
SURVEY NO. 5295A



4.134± ACRES SITE RECLAMATION AREA 4.132± ACRES NON-RECLAIMED AREA 8.266± ACRES MALDIVES MDP 15 PAD 1 AND 810 FT. FROM THE WEST LINE OF SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 25, 2019 SURVEY NO. 52954

SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.

MALDIVES 15-27 FED COM 232H

LOCATED 400 FT. FROM THE NORTH LINE

AND 810 FT. FROM THE WEST LINE OF

SECTION 15, TOWNSHIP 23 SOUTH,

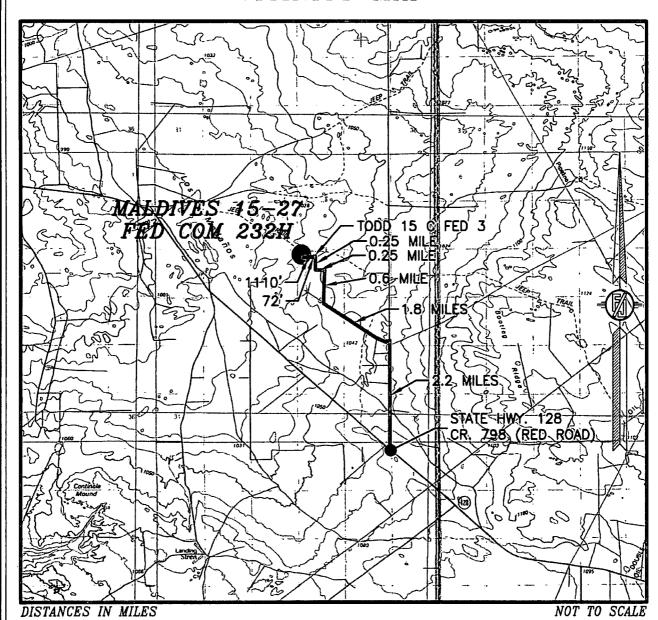
RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 25, 2019

SURVEY NO. 5295A

SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DIRECTIONS TO LOCATION

FROM STATE HWY. 128 & CR. 798 (RED ROAD) GO NORTH ON RED ROAD 2.2 MILES, TURN LEFT ON CALICHE ROAD AND GO NORTHWEST 1.8 MILES, TURN RIGHT AND GO NORTH 0.6 MILE, TURN LEFT AND GO WEST 0.25 MILE, TURN RIGHT AND GO NORTH 0.25 MILE, TO THE TODD 15C FED 3 WELL. FROM SOUTHWEST EDGE OF PAD FOLLOW FLAGS WEST—SOUTHWEST 72' TO THE SOUTHEAST CORNER OF PAD 2, THEN FOLLOW FLAGS WEST 1110' TO THE SOUTHEAST CORNER OF PAD FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P. MALDIVES 15-27 FED COM 232H

LOCATED 400 FT. FROM THE NORTH LINE AND 810 FT. FROM THE WEST LINE OF SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 25, 2019

SURVEY NO. 5295A

SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEB. 2017

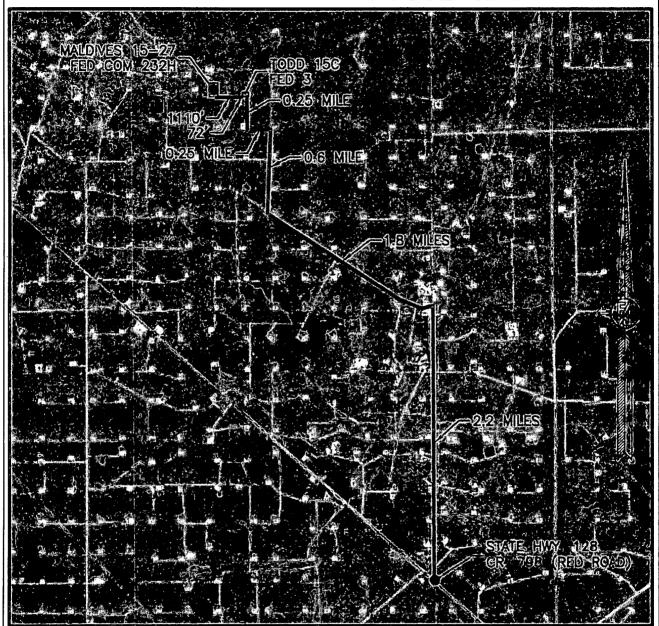
DEVON ENERGY PRODUCTION COMPANY, L.P. MALDIVES 15-27 FED COM 232H

LOCATED 400 FT. FROM THE NORTH LINE AND 810 FT. FROM THE WEST LINE OF SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 25, 2019

SURVEY NO. 5295A NEW MEXICO -

SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP

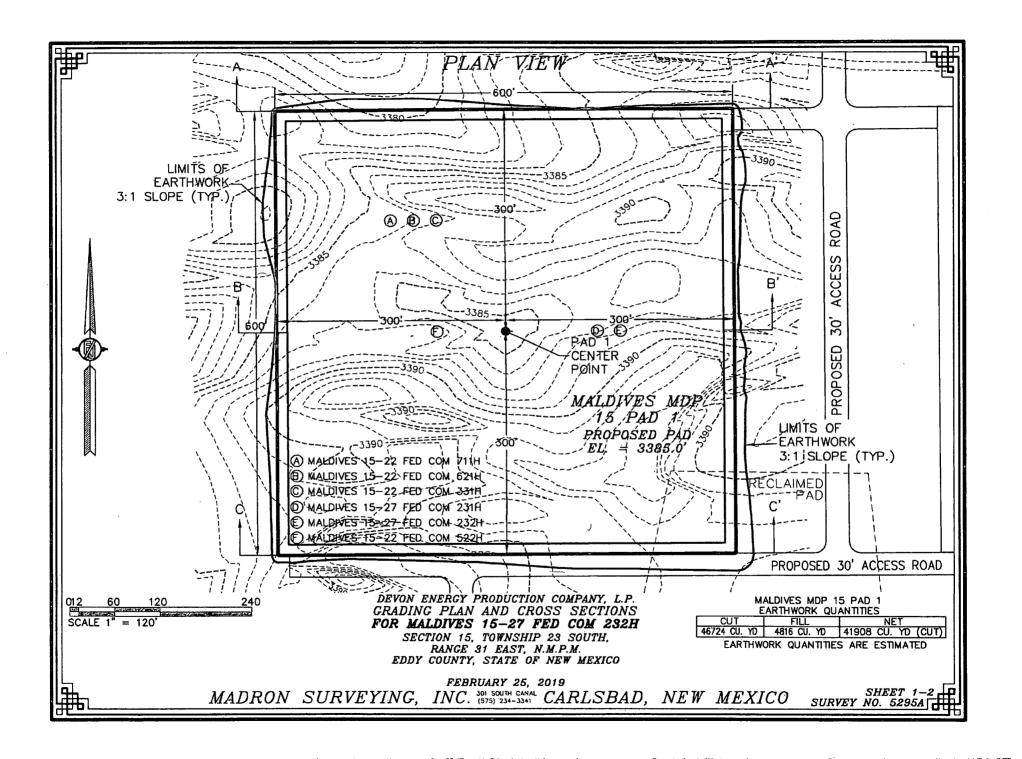


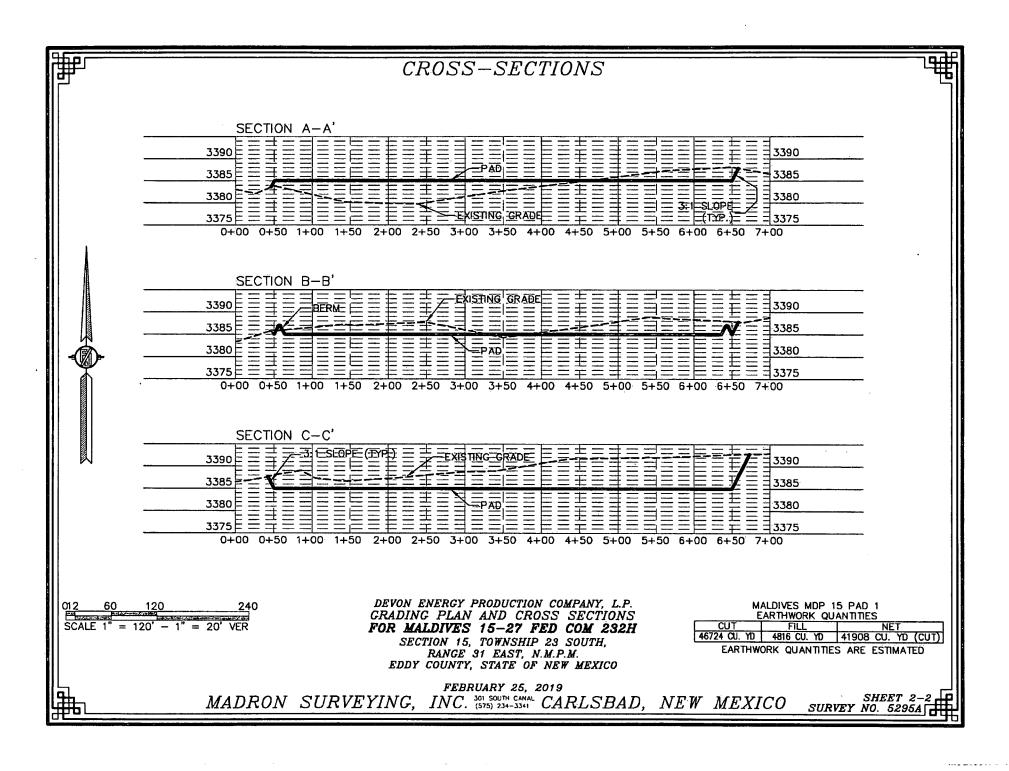
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEB. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P. MALDIVES 15-27 FED COM 232H LOCATED 400 FT. FROM THE NORTH LINE

LOCATED 400 FT. FROM THE NORTH LINE AND 810 FT. FROM THE WEST LINE OF SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 25, 2019

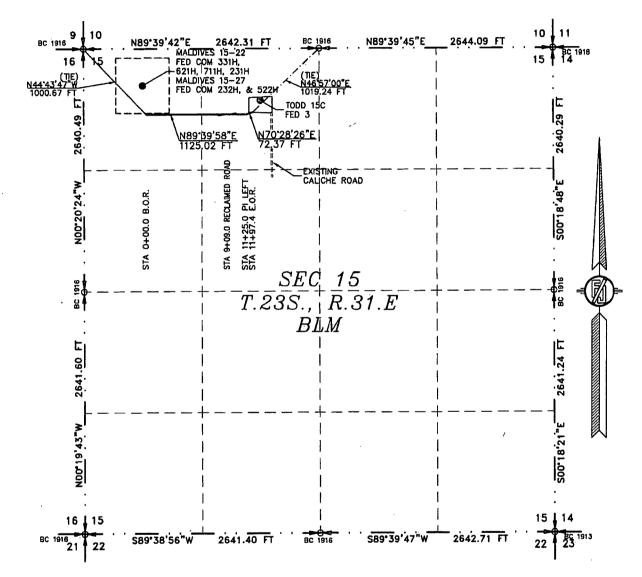




ACCESS ROAD PLAT

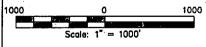
ACCESS ROAD FOR MALDIVES 15-22 FED COM 331H, 621H, 711H, & 522H AND MALDIVES 15-27 FED COM 231H & 232H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST. N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO FEBRUARY 25, 2019



SEE NEXT SHEET (2-2) FOR DESCRIPTION

INC. (575) 2



GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE ŠURVĖY.

SHEET: 1-2

MADRON SURVEYING,

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS IRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT-THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS GERTIFICATE IS EXECUTED AT CARLSBAD,

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5295A

 ${\it CARLSBAD}$ NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR MALDIVES 15-22 FED COM 331H, 621H, 711H, & 522H AND MALDIVES 15-27 FED COM 231H & 232H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST. N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO FEBRUARY 25, 2019

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N44°43'47"W, A DISTANCE OF 1000.67 FEET;

THENCE N89'39'58"E A DISTANCE OF 1125.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N70'28'26"E A DISTANCE OF 72.37 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 15, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N46°57'00"E, A DISTANCE OF 1019.24 FEET:

SAID STRIP OF LAND BEING 1197.39 FEET OR 72.57 RODS IN LENGTH, CONTAINING 0.825 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4

621.02 L.F.

37.64 RODS

0.428 ACRES

NE/4 NW/4

576.37 L.F.

34.93 RODS

0.397 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN ÉASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING,

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT THAVE-CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY, IS, TRUE, AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

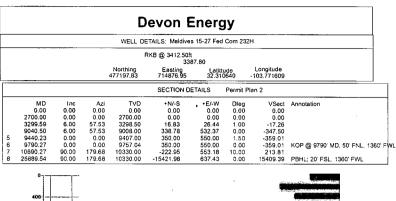
IN WITNESS WHEREOT THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

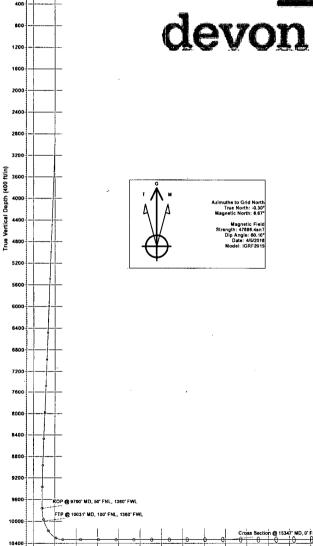
FEBRUARY 2019 NEW MEXICO OP

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

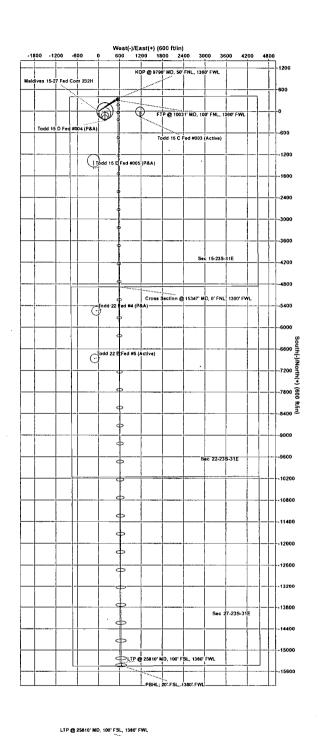
SURVEY NO. 5295A

INC. 101 SOUTH CARLSBAD, *NEW MEXICO*





6000 6600 7200 7600 6400 9000 Vertical Section at 180.94° (600 ft/in)



9600 10200 10800 11400 12000 12600 13200 13800 14400 15000

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

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

Project Eddy County (NAD 83 NM Eastern)

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

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site Sec 15-T23S-R31E Northing: 477,592.96 usft Site Position: 32.311738 Latitude: Мар Easting: 714,064.76 usft Longitude: -103.774231 Position Uncertainty: 0.00 ft Slot Radius: 13-3/16 " **Grid Convergence:** 0.30

Well Maldives 15-27 Fed Com 232H Well Position +N/-S 0.00 ft Northing: 477,197.83 usft 32.310640 Latitude: +E/-W 0.00 ft 714,876.95 usft -103.771609 Easting: Longitude: 0.50 ft **Position Uncertainty** Wellhead Elevation: Ground Level: 3,387.80 ft

Wellbore #1 Wellbore Model Name Field Strength Magnetics Sample Date Declination Dip Angle (°) (°) (nT) IGRF2015 4/5/2018 60.10 47,886.37940923 6.97

Permit Plan 2 Design **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 180.94

 Plan Survey Tool Program
 Date 3/14/2019

 Depth From (ft)
 Depth To (ft)
 Tool Name Remarks

 1
 0.00 25,889.54 Permit Plan 2 (Wellbore #1)
 MWD+IFR1 OWSG MWD + IFR1

Plan Sections Dogleg Build Measured Vertical Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (°/100usft) (°/100usft) (°/100usft) (ft) (°) (°) (ft) (ft) (ft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,700.00 0.00 2,700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3,299.59 57.53 3,298.50 16.83 26.44 1.00 1.00 0.00 57.53 6.00 9,040.50 6 00 57.53 9,008.00 338.78 532.37 0.00 0.00 0.00 0.00 9,440.23 0.00 0.00 9,407.00 350.00 550.00 1.50 -1.50 0.00 180.00 9,790.27 0.00 9,757.04 350.00 550.00 0.00 0.00 0.00 0.00 0.00 179.68 -222.95 553.18 10.00 179.68 PBHL - Maldives 15-2 10,690.27 90.00 10,330.00 10.00 0.00 25,889.54 179.68 10,330.00 -15,421.98 637.43 0.00 0.00 0.00 PBHL - Maldives 15-2 90.00 0.00

Database: Company:

Design:

EDM r5000.141_Prod US WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 15-T23S-R31E

Well: Wellbore: Maldives 15-27 Fed Com 232H

Wellbore #1 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

Planned Survey				andre en Para application, a and application of a process of the second				and the second s	
7									
Measured			Vertical			Map	Map		, , ,
Depth (ft)	Inclination	Azimuth	Depth (ft)	+N/-S	+E/-W	Northing	Easting		
(11)	(°).	(°)	(11)	(ft)	(ft)	(usft)	(usft)	. Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
100.00	0.00	0.00	100.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
200.00	0.00	0.00	200.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
300.00	0.00	0.00	300.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
400.00	0.00	0.00	400.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
500.00 600.00	0.00	0.00	500.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
700.00	0.00 0.00	0.00 0.00	600.00 700.00	0.00 0.00	0.00 0.00	477,197.83 477,197.83	714,876.95 714,876.95	32.310640	-103.771609
800.00	0.00	0.00	800.00	0.00	0.00	477,197.83	714,876.95	32.310640 32.310640	-103.771609 -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	0.00	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	-103.771609
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	-103.771609
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	-103.771609
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	0.00	2,600.00	0.00	0.00	477,197.83	714,876.95	32.310640	-103.771609
2,700.00 2,800.00	1.00	0.00 57.53	2,700.00 2,799.99	0.00 0.47	0.00 0.74	477,197.83	714,876.95	32.310640	-103.771609
2,900.00	2.00	57.53 57.53	2,799.99	1.87	2.94	477,198.30 477,199.70	714,877.68 714,879.89	32.310641 32.310645	-103.771607 -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	714,982.74	32.310823	-103.771266
4,300.00	6.00	57.53	4,293.43	72.93	114.61	477,270.76	714,991.55	32.310839	-103.771237
4,400.00	6.00	57.53 57.53	4,392.89	78.54	123.42	477,276.37	715,000.37	32.310854	-103.771208
4,500.00	6.00	57.53 57.53	4,492.34	84.15	132.23	477,281.98	715,009.18	32.310869	-103.771180
4,600.00	6.00	57.53 57.53	4,591.79	89.76 95.36	141.04	477,287.59	715,017.99	32.310884	-103.771151
4,700.00 4,800.00	6.00 6.00	57.53 57.53	4,691.25	95.36 100.97	149.86 158.67	477,293.19	715,026.80	32.310900 32.310915	-103.771122
4,800.00	6.00	57.53 57.53	4,790.70 4,890.15	100.97 106.58	158.67 167.48	477,298.80 477,304.41	715,035.62 715,044.43	32.310915 32.310930	-103.771094 -103.771065
5,000.00	6.00	57.53 57.53	4,890.15	112.19	176.30	477,304.41	715,044.43	32.310946	-103.771083
5,100.00	6.00	57.53 57.53	5,089.06	117.80	185.11	477,310.02	715,053.24	32.310946 32.310961	-103.771008
5,200.00	6.00	57.53	5,188.51	123.40	193.92	477,313.83	715,062.05	32.310976	-103.771008
5,300.00	6.00	57.53	5,287.96	129.01	202.73	477,326.84	715,079.68	32.310970	-103.770951
5,300.00	6.00	37.53	5,287.96	129.01	202.13	411,320.84	7 13,079.68	32.310992	-103.770951

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

Project: Site:

Eddy County (NAD 83 NM Eastern)

Sec 15-T23S-R31E

Well: Wellbore:

Design:

Maldives 15-27 Fed Com 232H Wellbore #1 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

nned Survey	<i>"</i>								
Measured	·		Vertical		* *	Map	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)*	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
5,400.00	6.00	57.53	5,387.42	134.62	211.55	477,332.45	715,088.49	32.311007	-103.770
5,500.00	6.00	57.53	5,486.87	140.23	220.36	477,338.06	715,097.30	32.311022	-103.77
5,600.00	6.00	57.53	5,586.32	145.84	229.17	477,343.67	715,106.12	32.311037	-103.770
5,700.00	6.00	57.53	5,685.77	151.44	237.98	477,349.27	715,114.93	32.311053	-103.770
5,800.00	6.00	57.53	5,785.23	157.05	246.80	477,354.88	715,123.74	32.311068	-103,770
5,900.00	6.00	57.53	5,884.68	162.66	255.61	477,360.49	715,132.55	32.311083	-103.770
6,000.00	6.00	57.53	5,984.13	168.27	264.42	477,366.10	715,141.37	32.311099	-103.77
6,100.00	6.00	57.53	6,083.59	173.88	273.23	477,371.71	715,150.18	32.311114	-103.77
6,200.00	6.00	57.53	6,183.04	179.48	282.05	477,377.31	715,158.99	32.311129	-103.770
6,300.00	6.00	57.53	6,282.49	185.09	290.86	477,382.92	715,167.81	32.311144	-103.77
6,400.00	6.00	57.53	6,381.95	190,70	299.67	477,388.53	715,176.62	32.311160	-103.770
6,500.00	6.00	57.53	6,481.40	196.31	308.49	477,394.14	715,185.43	32.311175	-103.776
6,600.00	6.00	57.53	6,580.85	201.92	317.30	477,399.75	715,194.24	32.311190	-103.770
6,700.00	6.00	57.53	6,680.30	207.52	326.11	477,405.35	715,203.06	32.311206	-103.776
6,800.00	6.00	57.53	6,779.76	213.13	334.92	477,410.96	715,211.87	32.311221	-103.770
6,900.00	6.00	57.53	6,879.21	218.74	343.74	477,416.57	715,220.68	32.311236	-103.77
7,000.00	6.00	57.53	6,978.66	224.35	352.55	477,422.18	715,229.49	32.311251	-103.77
7,100.00	6.00	57.53	7,078.12	229.96	361.36	477,427.79	715,238.31	32.311267	-103.77
7,200.00	6.00	57.53	7,177.57	235.57	370.17	477,433.40	715,247.12	32.311282	-103.77
7,300.00	6.00	57.53	7,277.02	241.17	378.99	477,439.00	715,255.93	32.311297	-103.77
7,400.00	6.00	57.53	7,376.47	246.78	387.80	477,444.61	715,264.74	32.311313	-103.77
7,500.00	6.00	57.53	7,475.93	252.39	396.61	477,450.22	715,273.56	32.311328	-103.77
7,600.00	6.00	57.53	7,575.38	258.00	405.42	477,455.83	715,282.37	32.311343	-103.770
7,700.00	6.00	57.53	7,674.83	263.61	414.24	477,461.44	715,282.37	32.311358	-103.77
7,800.00	6.00	57.53	7,774.29	269.21	423.05	477,467.04	715,291.10	32.311374	-103.77
7,900.00	6.00	57.53	7,774.29	274.82	431.86	477,472.65			
8,000.00	6.00	57.53	7,973.19	280.43	440.67	477,478.26	715,308.81	32.311389	-103.770
8,100.00	6.00	57.53	8,072.65	286.04	449.49	•	715,317.62	32.311404	-103.770
8,200.00	6.00	57.53		291.65		477,483.87	715,326.43	32.311420	-103.770
			8,172.10		458.30	477,489.48	715,335.25	32.311435	-103.770
8,300.00	6.00	57.53 57.53	8,271.55	297.25	467.11	477,495.08	715,344.06	32.311450	-103.770
8,400.00	6.00	57.53	8,371.00	302.86	475.93	477,500.69	715,352.87	32.311465	-103.770
8,500.00	6.00	57.53	8,470.46	308.47	484.74	477,506.30	715,361.68	32.311481	-103.770
8,600.00	6.00	57.53	8,569.91	314.08	493.55	477,511.91	715,370.50	32.311496	-103.770
8,700.00	6.00	57.53	8,669.36	319.69	502.36	477,517.52	715,379.31	32.311511	-103.769
8,800.00	6.00	57.53	8,768.82	325.29	511.18	477,523.12	715,388.12	32.311527	-103.769
8,900.00	6.00	57.53	8,868.27	330.90	519.99	477,528.73	715,396.93	32.311542	-103.769
9,000.00	6.00	57.53 57.53	8,967.72	336.51	528.80	477,534.34	715,405.75	32.311557	-103.769
9,040.50	6.00	57.53	9,008.00	338.78	532.37	477,536.61	715,409.32	32.311563	-103.769
9,100.00	5.10	57.53	9,067.22	341.87	537.22	477,539.70	715,414.17	32.311572	-103.769
9,200.00	3.60	57.53	9,166.93	345.95	543.63	477,543.78	715,420.57	32.311583	-103.769
9,300.00	2.10	57.53	9,266.80	348.62	547.83	477,546.45	715,424.77	32.311590	-103.769
9,400.00	0.60	57.53	9,366.77	349.89	549.82	477,547.72	715,426.77	32.311594	-103.769
9,440.23	0.00	0.00	9,407.00	350.00	550.00	477,547.83	715,426.94	32.311594	-103.769
9,500.00	0.00	0.00	9,466.77	350.00	550.00	477,547.83	715,426.94	32.311594	-103.76
9,600.00	0.00	0.00	9,566.77	350.00	550.00	477,547.83	715,426.94	32.311594	-103.76
9,700.00	0.00	0.00	9,666.77	350.00	550.00	477,547.83	715,426.94	32.311594	-103.76
9,790.27	0.00	0.00	9,757.04	350.00	550.00	477,547.83	715,426.94	32.311594	-103.76
KOP @ 9	790' MD, 50' I	FNL, 1360' FV	N L	•					
9,800.00	0.97	179.68	9,766.77	349.92	550.00	477,547.75	715,426.95	32.311594	-103.76
9,900.00	10.97	179.68	9,866.10	339.52	550.06	477,537.35	715,427.00	32.311565	-103.76
10,000.00	20.97	179.68	9,962.12	312.04	550.21	477,509.87	715,427.16	32.311490	-103.769
10,031.42	24.12	179.68	9,991.13	300.00	550.28	477,497.83	715,427.22	32.311456	-103.769
FTP @ 10	0031 ¹ MD, 100	' FNL, 1360' I	FWL						
10,100.00	30.97	179.68	10,051.90	268.30	550.45	477,466.13	715,427.40	32.311369	-103.769

Database: Company: Project:

Site:

Design:

EDM r5000.141_Prod US WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 15-T23S-R31E

Well: Wellbore: Maldives 15-27 Fed Com 232H

Wellbore #1 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

Planned	Survey

Measured			Vertical			Мар	Мар		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
10,200.00	40.97	179.68	10,132.73	209.64	550.78	477,407.47	715,427.72	32.311208	-103.7698
10,300.00	50.97	179.68	10,202.14	137.83	551.18	477,335.66	715,428.12	32.311011	-103.7698
10,400.00	60.97	179.68	10,258.03	55.06	551.64	477,252.89	715,428.58	32.310783	-103.7698
10,500.00	70.97	179.68	10,298.70	-36.16	552.14	477,161.67	715,429.09	32.310532	-103.7698
10,600.00	80.97	179.68	10,322.90	-133.05	552.68	477,064.78	715,429.62	32.310266	-103.7698
10,690.27	90.00	179.68	10,330.00	-222.95	553.18	476,974.88	715,430.12	32.310019	-103.7698
10,700.00	90.00	179.68	10,330.00	-232.68	553.23	476,965.15	715,430.17	32.309992	-103.769
10,800.00	90.00	179.68	10,330.00	-332.68	553.78	476,865.15	715,430.73	32.309717	-103.769
10,900.00	90.00	179.68	10,330.00	-432.68	554.34	476,765.16	715,431.28	32.309443	-103.769
11,000.00	90.00	179.68	10,330.00	-532.67	554.89	476,665.16	715,431.84	32.309168	-103.769
11,100.00	90.00	179.68	10,330.00	-632.67	555.45	476,565.16	715,432.39	32.308893	-103.769
11,200.00	90.00	179.68	10,330.00	-732.67	556.00	476,465.16	715,432.95	32.308618	-103.769
11,300.00	90.00	179.68	10,330.00	-832.67	556.56	476,365.16	715,433.50	32.308343	-103.769
11,400.00	90.00	179.68	10,330.00	-932.67	557.11	476,265.16	715,434.06	32.308068	-103.769
11,500.00		179.68	10,330.00	-1,032.67	557.66	476,165.17	715,434.61	32.307793	-103.769
11,600.00		179.68	10,330.00	-1,132.67	558.22	476,065.17	715,435.16	32.307518	-103.769
11,700.00		179.68	10,330.00	-1,232.66	558.77	475,965.17	715,435.72	32.307243	-103.769
11,800.00		179.68	10,330.00	-1,332.66	559.33	475,865.17	715,436.27	32.306969	-103.769
11,900.00		179.68	10,330.00	-1,432.66	559.88	475,765,17	715,436.83	32.306694	-103.769
12,000.00		179.68	10,330.00	-1,532.66	560.44	475,665.17	715,437.38	32.306419	-103.769
12,100.00		179.68	10,330.00	-1,632.66	560.99	475,565.18	715,437.94	32.306144	-103.769
12,200.00		179.68	10,330.00	-1,732.66	561.55	475,465.18	715,438.49	32.305869	-103.769
12,300.00		179.68	10,330.00	-1,832.65	562.10	475,365.18	715,439.04	32.305594	-103.769
12,400.00		179.68	10,330.00	-1,932.65	562.65	475,265.18	715,439.60	32.305319	-103.769
12,500.00		179.68	10,330.00	-2,032.65	563.21	475,165.18	715,440.15	32.305044	-103.769
12,600.00		179.68	10,330.00	-2,032.65	563.76	475,065.19	715,440.71	32.304770	-103.769
12,700.00		179.68	10,330.00	-2,132.65	564.32	474,965.19	715,441.26	32.304495	-103.769
12,800.00		179.68	10,330.00	-2,232.65	564.87	474,865.19	715,441.82	32.304220	-103.769
12,800.00		179.68	10,330.00						
				-2,432.65	565.43	474,765.19	715,442.37	32.303945	-103.769
13,000.00		179.68	10,330.00	-2,532.64	565.98	474,665.19	715,442.92	32.303670	-103.769
13,100.00		179.68	10,330.00	-2,632.64	566.53	474,565.19	715,443.48	32.303395	-103.769
13,200.00		179.68	10,330.00	-2,732.64	567.09	474,465.20	715,444.03	32.303120	-103.769
13,300.00		179.68	10,330.00	-2,832.64	567.64	474,365.20	715,444.59	32.302845	-103.769
13,400.00		179.68	10,330.00	-2,932.64	568.20	474,265.20	715,445.14	32.302571	-103.769
13,500.00		179.68	10,330.00	-3,032.64	568.75	474,165.20	715,445.70	32.302296	-103.769
13,600.00		179.68	10,330.00	-3,132.63	569.31	474,065.20	715,446.25	32.302021	-103.769
13,700.00		179.68	10,330.00	-3,232.63	569.86	473,965.20	715,446.81	32.301746	-103.769
13,800.00		179.68	10,330.00	-3,332.63	570.41	473,865.21	715,447.36	32.301471	-103.769
13,900.00		179.68	10,330.00	-3,432.63	570.97	473,765.21	715,447.91	32.301196	-103.769
14,000.00		179.68	10,330.00	-3,532.63	571.52	473,665.21	715,448.47	32.300921	-103.769
14,100.00		179.68	10,330.00	-3,632.63	572.08	473,565.21	715,449.02	32.300646	-103.769
14,200.00		179.68	10,330.00	-3,732.63	572.63	473,465.21	715,449.58	32.300372	-103.769
14,300.00		179.68	10,330.00	-3,832.62	573.19	473,365.21	715,450.13	32.300097	-103.769
14,400.00		179.68	10,330.00	-3,932.62	573.74	473,265.22	715,450.69	32.299822	-103.769
14,500.00		179.68	10,330.00	-4,032.62	574.29	473,165.22	715,451.24	32.299547	-103.769
14,600.00		179.68	10,330.00	-4,132.62	574.85	473,065.22	715,451.79	32.299272	-103.769
14,700.00	90.00	179.68	10,330.00	-4,232.62	575.40	472,965.22	715,452.35	32.298997	-103.769
14,800.00	90.00	179.68	10,330.00	-4,332.62	575.96	472,865.22	715,452.90	32.298722	-103.769
14,900.00	90.00	179.68	10,330.00	-4,432.61	576.51	472,765.23	715,453.46	32.298447	-103.769
15,000.00	90.00	179.68	10,330.00	-4,532.61	577.07	472,665.23	715,454.01	32.298173	-103.769
15,100.00	90.00	179.68	10,330.00	-4,632.61	577.62	472,565.23	715,454.57	-32.297898	-103.769
15,200.00	90.00	179.68	10,330.00	-4,732.61	578.18	472,465.23	715,455.12	32.297623	-103.769
15,300.00	90.00	179.68	10,330.00	-4,832.61	578.73	472,365.23	715,455.67	32.297348	-103.769

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

Project:

Eddy County (NAD 83 NM Eastern)

Site:

Well: Wellbore: Sec 15-T23S-R31E Maldives 15-27 Fed Com 232H

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

Planned Survey								harringen er ver die konstruction er ver versche deutsche deutsche deutsche deutsche deutsche deutsche deutsch An die konstruigig verschiede deutsche deutsche deutsche deutsche deutsche deutsche deutsche deutsche deutsch	
					المرابعة الأرابية				
Measured			Vertical			Мар	Map		
	nclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°).	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
15,347.00	90.00	179.68	10,330.00	-4,879.61	578.99	472,318.23	715,455.93	32.297219	-103.76981
Cross Sec	tion @ 1534	7' MD, 0' FNL	, 1360' FWL						
15,400.00	90.00	179.68	10,330.00	-4,932.61	579.28	472,265.23	715,456.23	32.297073	-103.76981
15,500.00	90.00	179.68	10,330.00	-5,032.61	579.84	472,165.24	715,456.78	32.296798	-103.76981
15,600.00	90.00	179.68	10,330.00	-5,132.60	580.39	472,065.24	715,457.34	32.296523	-103.76981
15,700.00	90.00	179.68	10,330.00	-5,232.60	580.95	471,965.24	715,457.89	32.296248	-103.76981
15,800.00	90.00	179.68	10,330.00	-5,332.60	581.50	471,865.24	715,458.45	32.295974	-103.76981
15,900.00	90.00	179.68	10,330.00	-5,432.60	582.06	471,765.24	715,459.00	32.295699	-103.76981
16,000.00	90.00	179.68	10,330.00	-5,532.60	582.61	471,665.24	715,459.55	32.295424	-103.76981
16,100.00 16,200.00	90.00 90.00	179.68 179.68	10,330.00 10,330.00	-5,632.60 5,732.50	583.16	471,565.25	715,460.11	32.295149	-103.76981
16,200.00	90.00	179.68	10,330.00	-5,732.59 -5,832.59	583.72 584.27	471,465.25 471,365.25	715,460.66 715,461.22	32.294874 32.294599	-103.76981 -103.76981
16,400.00	90.00	179.68	10,330.00	-5,632.59 -5,932.59	584.83	471,365.25	715,461.77	32.294324	-103.76981
16,500.00	90.00	179.68	10,330.00	-5,932.59 -6,032.59	585.38	471,265.25	715,462.33	32.294049	-103.76981
16,600.00	90.00	179.68	10,330.00	-6,032.59 -6,132.59	585.94	471,165.25	715,462.88	32.293775	-103.76981
16,700.00	90.00	179.68	10,330.00	-6,232.59	586.49	470,965.26	715,463.44	32.293500	-103.76981
16,800.00	90.00	179.68	10,330.00	-6,332.59	587.04	470,865.26	715,463.99	32.293225	-103.76981
16,900.00	90.00	179.68	10,330.00	-6,432.58	587.60	470,765.26	715,464.54	32.292950	-103.76981
17,000.00	90.00	179.68	10,330.00	-6,532.58	588.15	470,665.26	715,465.10	32.292675	-103.76981
17,100.00	90.00	179.68	10,330.00	-6,632.58	588.71	470,565.26	715,465.65	32.292400	-103.76981
17,200.00	90.00	179.68	10,330.00	-6,732.58	589.26	470,465.26	715,466.21	32.292125	-103.76981
17,300.00	90.00	179.68	10,330.00	-6,832.58	589.82	470,365.27	715,466.76	32.291850	-103.76981
17,400.00	90.00	179.68	10,330.00	-6,932.58	590.37	470,265.27	715,467.32	32.291575	-103.76981
17,500.00	90.00	179.68	10,330.00	-7,032.57	590.92	470,165.27	715,467.87	32.291301	-103.76981
17,600.00	90.00	179.68	10,330.00	-7,132.57	591.48	470,065.27	715,468.42	32.291026	-103.76981
17,700.00	90.00	179.68	10,330.00	-7,232.57	592.03 ·	469,965.27	715,468.98	32.290751	-103.76981
17,800.00	90.00	179.68	10,330.00	-7,332.57	592.59	469,865.28	715,469.53	32.290476	-103.76981
17,900.00	90.00	179.68	10,330.00	-7,432.57	593.14	469,765.28	715,470.09	32.290201	-103.76981
18,000.00	90.00	179.68	10,330.00	-7,532.57	593.70	469,665.28	715,470.64	32.289926	-103.76981
18,100.00	90.00	179.68	10,330.00	-7,632.57	594.25	469,565.28	715,471.20	32.289651	-103.76981
18,200.00	90.00	179.68	10,330.00	-7,732.56	594.81	469,465.28	715,471.75	32.289376	-103.76981
18,300.00	90.00	179.68	10,330.00	-7,832.56	595.36	469,365.28	715,472.30	32.289102	-103.76981
18,400.00	90.00	179.68	10,330.00	-7,932.56	595.91	469,265.29	715,472.86	32.288827	-103.76981
18,500.00	90.00	179.68	10,330.00	-8,032.56	596.47	469,165.29	715,473.41	32.288552	-103.76981
18,600.00	90.00	179.68	10,330.00	-8,132.56	597.02	469,065.29	715,473.97	32.288277	-103.76981
18,700.00	90.00	179.68	10,330.00	-8,232.56	597.58	468,965.29	715,474.52	32.288002	-103.76981
18,800.00 18,900.00	90.00 90.00	179.68 179.68	10,330.00 10,330.00	-8,332.55 8,432.55	598.13 598.69	468,865.29 468,765.29	715,475.08	32.287727	-103.76981
19,000.00	90.00	179.68	10,330.00	-8,432.55 -8,532.55	598.69 599.24	468,665.30	715,475.63	32.287452	-103.76981
19,100.00	90.00	179.68	10,330.00	-8,532.55 -8,632.55	599.2 4 599.79	468,565.30	715,476.18 715,476.74	32.287177 32.286903	-103.76981 -103.76981
19,200.00	90.00	179.68	10,330.00	-8,732.55	600.35	468,465.30	715,476.74	32.286628	-103.76981
19,300.00	90.00	179.68	10,330.00	-8,832.55	600.90	468,365.30	715,477.85	32.286353	-103.76981
19,400.00	90.00	179.68	10,330.00	-8,932.55	601.46	468,265.30	715,478.40	32.286078	-103.76981
19,500.00	90.00	179.68	10,330.00	-9,032.54	602.01	468,165.30	715,478.96	32.285803	-103.76981
19,600.00	90.00	179.68	10,330.00	-9,132.54	602.57	468,065.31	715,479.51	32.285528	-103.76981
19,700.00	90.00	179.68	10,330.00	-9,232.54	603.12	467,965.31	715,480.07	32.285253	-103.76981
19,800.00	90.00	179.68	10,330.00	-9,332.54	603.67	467,865.31	715,480.62	32.284978	-103.76981
19,900.00	90.00	179.68	10,330.00	-9,432.54	604.23	467,765.31	715,481.17	32.284704	-103.76981
20,000.00	90.00	179.68	10,330.00	-9,532.54	604.78	467,665.31	715,481.73	32.284429	-103.76981
20,100.00	90.00	179.68	10,330.00	-9,632.53	605.34	467,565.32	715,482.28	32.284154	-103.76981
20,200.00	90.00	179.68	10,330.00	-9,732.53	605.89	467,465.32	715,482.84	32.283879	-103.76981
20,300.00	90.00	179.68	10,330.00	-9,832.53	606.45	467,365.32	715,483.39	32.283604	-103.76981
20,400.00	90.00	179.68	10,330.00	-9,932.53	607.00	467,265.32	715,483.95	32.283329	-103.76981
20,500.00	90.00	179.68	10,330.00	-10,032.53	607.56	467,165.32	715,484.50	32.283054	-103.76981

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

Project: Site:

Eddy County (NAD 83 NM Eastern)

Sec 15-T23S-R31E

Well: Wellbore:

Design:

Maldives 15-27 Fed Com 232H Wellbore #1 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

Planned	Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,600.00	90.00	179.68	10,330.00	-10,132.53	608.11	467,065.32	715,485.05	32.282779	-103,7698
20,700.00	90.00	179.68	10,330.00	-10,232.53	608.66	466,965.33	715,485.61	32.282505	-103.7698
20,800.00	90.00	179.68	10,330.00	-10,332.52	609.22	466,865.33	715,486.16	32.282230	-103.7698
20,900.00	90.00	179.68	10,330.00	-10,432.52	609.77	466,765.33	715,486.72	32.281955	-103.7698
21,000.00	90.00	179.68	10,330.00	-10,532.52	610.33	466,665.33	715,487.27	32.281680	-103.7698
21,100.00	90.00	179.68	10,330.00	-10,632.52	610.88	466,565.33	715,487.83	32.281405	-103.7698
21,200.00	90.00	179.68	10,330.00	-10,732.52	611.44	466,465.33	715,488.38	32.281130	-103.7698
21,300.00	90.00	179.68	10,330.00	-10,832.52	611.99	466,365.34	715,488.93	32.280855	-103.7698
21,400.00	90.00	179.68	10,330.00	-10,932.51	612.54	466,265.34	715,489.49	32.280580	-103.769
21,500.00	90.00	179.68	10,330.00	-11,032.51	613.10	466,165.34	715,490.04	32.280305	-103.769
21,600.00	90.00	179.68	10,330.00	-11,132.51	613.65	466,065.34	715,490.60	32.280031	-103.7698
21,700.00	90.00	179.68	10,330.00	-11,232.51	614.21	465,965.34	715,491.15	32.279756	-103.769
21,800.00	90.00	179.68	10,330.00	-11,332.51	614.76	465,865.34	715,491.71	32.279481	-103.769
21,900.00	90.00	179.68	10,330.00	-11,432.51	615.32	465,765.35			-103.769
22,000.00	90.00	179.68	10,330.00	-11,432.51	615.87	465,665.35	715,492.26 715,492.81	32.279206 32.278931	-103.769
22,000.00	90.00	179.68	10,330.00	-11,632.51	616.42	465,565.35			
22,100.00	90.00	179.68	10,330.00	-11,732.50			715,493.37	32.278656	-103.769
22,200.00	90.00	179.68	10,330.00	•	616.98	465,465.35	715,493.92	32.278381	-103.769
				-11,832.50	617.53	465,365.35	715,494.48	32.278106	-103.769
22,400.00	90.00	179.68	10,330.00	-11,932.50	618.09	465,265.36	715,495.03	32.277832	-103,769
22,500.00	90.00	179.68	10,330.00	-12,032.50	618.64	465,165.36	715,495.59	32.277557	-103.769
22,600.00	90.00	179.68	10,330.00	-12,132.50	619.20	465,065.36	715,496.14	32.277282	-103.769
22,700.00	90.00	179.68	10,330.00	-12,232.49	619.75	464,965.36	715,496.70	32.277007	-103.769
22,800.00	90.00	179.68	10,330.00	-12,332.49	620.30	464,865.36	715,497.25	32.276732	-103.769
22,900.00	90.00	179.68	10,330.00	-12,432.49	620.86	464,765.36	715,497.80	32.276457	-103.769
23,000.00	90.00	179.68	10,330.00	-12,532.49	621.41	464,665.37	715,498.36	32.276182	-103.769
23,100.00	90.00	179.68	10,330.00	-12,632.49	621.97	464,565.37	715,498.91	32.275907	-103.769
23,200.00	90.00	179.68	10,330.00	-12,732.49	622.52	464,465.37	715,499.47	32.275633	-103.769
23,300.00	90.00	179.68	10,330.00	-12,832.49	623.08	464,365.37	715,500.02	32.275358	-103.769
23,400.00	90.00	179.68	10,330.00	-12,932.48	623.63	464,265.37	715,500.58	32.275083	-103.769
23,500.00	90.00	179.68	10,330.00	-13,032.48	624.19	464,165.37	715,501.13	32.274808	-103.769
23,600.00	90.00	179.68	10,330.00	-13,132.48	624.74	464,065.38	715,501.68	32.274533	-103.769
23,700.00	90.00	179.68	10,330.00	-13,232.48	625.29	463,965.38	715,502.24	32.274258	-103.769
23,800.00	90.00	179.68	10,330.00	-13,332.48	625.85	463,865.38	715,502.79	32.273983	-103.769
23,900.00	90.00	179.68	10,330.00	-13,432.48	626.40	463,765.38	715,503.35	32.273708	-103.769
24,000.00	90.00	179.68	10,330.00	-13,532.47	626.96	463,665.38	715,503.90	32.273434	-103.769
24,100.00	90.00	179.68	10,330.00	-13,632.47	627.51	463,565.38	715,504.46	32.273159	-103.769
24,200.00	90.00	179.68	10,330.00	-13,732.47	628.07	463,465.39	715,505.01	32.272884	-103.769
24,300.00	90.00	179.68	10,330.00	-13,832.47	628.62	463,365.39	715,505.56	32.272609	-103.769
24,400.00	90.00	179.68	10,330.00	-13,932.47	629.17	463,265.39	715,506.12	32.272334	-103.769
24,500.00	90.00	179.68	10,330.00	-14,032.47	629.73	463,165.39	715,506.67	32.272059	-103.769
24,600.00	90.00	179.68	10,330.00	-14,132.47	630.28	463,065.39	715,507.23	32.271784	-103.769
24,700.00	90.00	179.68	10,330.00	-14,232.46	630.84	462,965.40	715,507.78	32.271509	-103.769
24,800.00	90.00	179.68	10,330.00	-14,332.46	631.39	462,865.40	715,508.34	32.271235	-103.769
24,900.00	90.00	179.68	10,330.00	-14,432.46	631.95	462,765.40	715,508.89	32.270960	-103.769
25,000.00	90.00	179.68	10,330.00	-14,532.46	632.50	462,665.40	715,509.44	32.270685	-103.769
25,100.00	90.00	179.68	10,330.00	-14,632.46	633.05	462,565.40	715,510.00	32.270410	-103.769
25,200.00	90.00	179.68	10,330.00	-14,732.46	633.61	462,465.40	715,510.55	32.270135	-103,769
25,300.00	90.00	179.68	10,330.00	-14,832.45	634.16	462,365.41	715,511.11	32.269860	-103.769
25,400.00	90.00	179.68	10,330.00	-14,932.45	634.72	462,265.41	715,511.66	32.269585	-103.769
25,500.00	90.00	179.68	10,330.00	-15,032.45	635.27	462,165.41	715,512.22	32.269310	-103.769
25,600.00	90.00	179.68	10,330.00	-15,132.45	635.83	462,065.41	715,512.77	32.269035	-103.769
25,700.00	90.00	179.68	10,330.00	-15,232.45	636.38	461,965.41	715,513.33	32.268761	-103.769
25,800.00	90.00	179.68	10,330.00	-15,332.45	636.93	461,865.41	715,513.88	32.268486	-103.769

Database: Company: EDM r5000.141_Prod US

WCDSC Permian NM

Project: Site: Eddy County (NAD 83 NM Eastern)

Sec 15-T23S-R31E

Well: Wellbore: 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

Measured Depth (ft)	Inclination (°)	Azimuth,	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
25,809.53	90.00	179.68	10,330.00	-15,341.98	636.99	461,855.88	715,513.93	32.268460	-103.769808
LTP @ 25	810' MD, 100'	FSL, 1360' F	WL						•
25,889.53	90.00	179.68	10,330.00	-15,421.98	637.43	461,775.89	715,514.38	32.268240	-103.769808
PBHL; 20	' FSL, 1360' F	WL							
25,889.54	90.00	179.68	10,330.00	-15,421.98	637.43	461,775.88	715.514.38	32.268240	-103.769808

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	. Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Maldives 511H - - plan misses target o - Point	0.00 center by 723		0.00 Oft MD (0.00	-7,231.22 TVD, 0.00 N,	-119.05 0.00 E)	469,966.62	714,757.90	32.290765	-103.772117
PBHL - Maldives 15-27 F - plan misses target o - Point	0.00 center by 103		0.00 889.54ft ME	-15,421.98) (10330.00 T\	637.43 /D, -15421.98	461,775.88 N, 637.43 E)	715,514.38	32.268240	-103.769808
Vertical Point - Maldives - plan misses target o - Point	0.00 center by 584		7,730.00 .88ft MD (76	348.97 683.66 TVD, 2	-161.91 64.10 N, 415.0	477,546.79 02 E)	714,715.04	32.311601	-103.772127

Plan Annotations					
Mea	sured	Vertical	Local Coor		
1 ·	epth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
9	,790.27	9,757.04	350.00	550.00	KOP @ 9790' MD, 50' FNL, 1360' FWL
10	,031.42	9,991.13	300.00	550.28	FTP @ 10031' MD, 100' FNL, 1360' FWL
15	,347.00	10,330.00	-4,879.61	578.99	Cross Section @ 15347' MD, 0' FNL, 1360' FWL
25	,809.53	10,330.00	-15,341.98	636.99	LTP @ 25810' MD, 100' FSL, 1360' FWL
25	,889.53	10,330.00	-15,421.98	637.43	PBHL; 20' FSL, 1360' FWL