District I 1625 N French Dr , Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St. Francis Dr., Santa Fe, NM 87505

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

lems that only use above ground steel tanks or haul-off bins and propose

to implement waste removal for closure, submit

to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure) Type of action: Permit Closure



Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144. Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. OGRID #: 147179 Operator: Chesapeake Operating, Inc. Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Facility or well name: Willow Lake 10 St. Com. # 1H API Number: 30.0/5.34585 OCD Permit Number: U/L or Qtr/Qtr M Section 10 Township 25 South Range 28 East County: Eddy Longitude __-104.082768______ NAD: **2** 1983 Center of Proposed Design: Latitude 32.138199 Surface Owner: Federal State Private Tribal Trust or Indian Allotment Closed-loop System: Subsection H of 19.15.17.11 NMAC Operation: M Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) P&A Above Ground Steel Tanks or Mall Haul-off Bins Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.3.103 NMAC Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: Previously Approved Operating and Maintenance Plan API Number: Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required. Disposal Facility Name: Controlled Recovery, Incorporated_______ Disposal Facility Permit Number: _NM_-01-0006 Disposal Facility Name: Sundance Disposal ___ Disposal Facility Permit Number: _NM-01-0019_ Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC **Operator Application Certification:** I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Title: Sr. Regulatory Compliance Specialist Name (Print). Date: 9-4-08

Signature:

e-mail address:

Telephone: 405-767-4275

7. O'CD Approval: Permit Application (including closure plan) Closure P	lan (only)
OCD Representative Signature:	Approval Date: 9-12-08
Title: Within The Species	OCD Permit Number: 0208 486
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the closure plan prior approach to the division within 60 days of the closure plan prior approach to the division within 60 days of the closure plan prior approach to the division within 60 days of the closure plan prior approach to the division within 60 days of the closure plan has been obtained and the closure plan prior approach to the division within 60 days of the closure plan has been obtained and the c	K of 19.15.17.13 NMAC to implementing any closure activities and submitting the closure report. The completion of the closure activities. Please do not complete this
9. Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drive two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No	in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operated Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ions:
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirer	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Chesapeake Operating, Inc.'s Closed Loop System Willow Lake 10 State Com. # 1H Unit M, Sec. 10, T-25-S R-28-E Eddy Co., NM API # TBD

Equipment & Design:

Chesapeake Operating, Inc. is to use a closed loop system with roll-off steel pits.

- (2) Dual Motion "King Cobra" Shale Shakers
- (2) 250 bbl per/minute "Derrick DE" centrifuges
- (1) 500 bbl "frac" tank" for fresh water

Operations & Maintenance:

During each and every tour, the rig's drilling crew will inspect and monitor closely the drilling fluids contained within the steel pits and visually monitor any spill which may occur.

Within 48 hours should a spill, release or leak occur, the NMOCD District II office in Artesia (505-748-1283) will be notified. Please note that notifications may be made earlier to the district office should a greater release occur.

This is in keeping with the reporting requirements of NMOCD's rule 116.

Closure:

During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed to the Controlled Recovery, Inc.'s location.

The permit number for the CRI is: NM-01-0006 Should this facility not be available, Sundance Disposal is the alternative site. The permit # for this facility is: NM-01-0003.

nergy, Minerals and Natural Resources Department

Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary

July 30, 2008

Ms. Ocean Munds-Dry Holland & Hart, LLP P.O. Box 2208 Santa Fe, NM 87504

Mark Fesmire **Division Director** Oil Conservation Division HOLLAND & HART LLP

Administrative Order NSL-5889

Re: Chesapeake Operating, Inc.

Willow Lake 10 State Com. Well No. 1H

API No. 30-015-**Section 10-25S-28E Eddy County**

Dear Ms. Munds-Dry:

Reference is made to the following:

- (a) your application (administrative application reference No. pKVR08-18534020) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico, on behalf of Chesapeake Operating, Inc. (Chesapeake), on July 1, 2008, and
 - (b) the Division's records pertinent to this request.

Chesapeake has requested to drill the above-referenced well as a horizontal well in the Delaware formation, at a location that will be unorthodox under Division Rule 111. The proposed surface location, point of penetration and terminus of the well are as follows:

Surface Location:

350 feet from the South line and 150 feet from the West line

(Unit M) of Section 10, Township 25S, Range 28E, NMPM

Eddy County, New Mexico

Point of Penetration: Same as Surface Location

Terminus

350 feet from the South line and 1670 feet from the East line

(Unit O) of said Section 10.

The S/2 SW/4 and SW/4 SE/4 of Section 10 will be dedicated to the proposed well to form a project area comprising three standard 40-acre spacing units in the Southwest Willow Lake-Delaware Pool (96855). This pool is governed by statewide Rule 104.B(1), which provides for 40-acre units, with wells located at least 330 feet from a unit outer boundary. This location is unorthodox because a portion of the producing interval will be less than 330 feet from the western boundary of the project area, and therefore outside the producing area.

Your application has been duly filed under the provisions of Division Rules 104.F and 1210.A(2).

It is our understanding that you are seeking this location for engineering reasons, in order to achieve maximum penetration of the target zone in the lateral portion of the wellbore.

It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 1210.A(2), in all adjoining units towards which the proposed location encroaches.

Pursuant to the authority conferred by Division Rule 104.F(2), the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 40.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Mark E. Fesmire, P.E.

Director

MEF/db

cc: New Mexico Oil Conservation Division - Artesia

New Mexico State Land Office - Santa Fe

State of New Mexico

DISTRICT I

1625 N. FRENCH DR , HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Form C-102

Revised October 12, 2005
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1301 W. GRAND AVENUE, ARTESIA, NM 8821

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT □ AMENDED REPORT 1220 S. ST FRANCIS DR., SANTA FE, NM 87505 API Number 96855 <u>Willow Lake</u>; Delaware, SW Well Number Property Code Property Name WILLOW LAKE 10 STATE COM 1H OGRID No. Operator Name Elevation CHESAPEAKE OPERATING, INC. 147179 2948

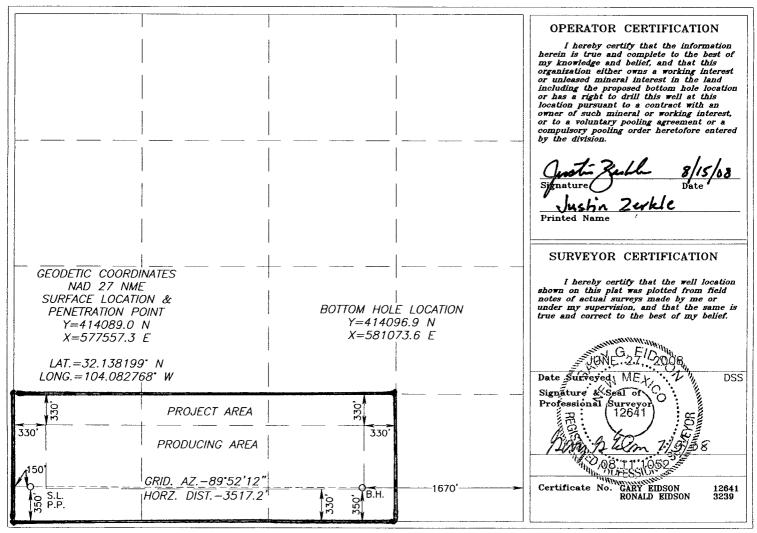
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	10	25-S	28-E		350	SOUTH	150	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	10	25-S	28-E		350	SOUTH	1670	EAST	EDDY
Dedicated Acre	s Joint o	r Infill Co	nsolidation (Code Or	der No.	·			
120					NSL-5	889			

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



BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL

: Willow Lake 10 State Com 1H

RIG

: Patterson 142

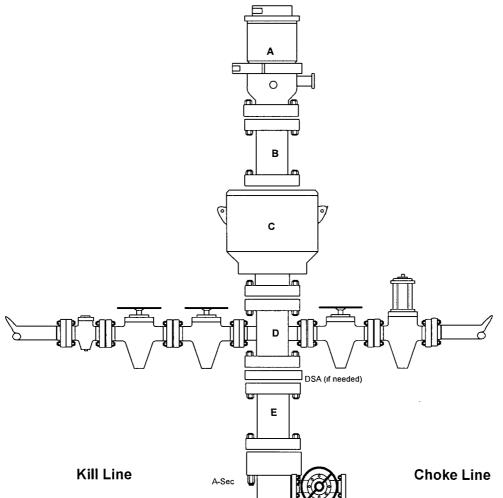
COUNTY

: Eddy

STATE: New Mexico

OPERATION: Drill out below 13-3/8" Casing (12-1/4" hole size)

	SIZE	PRESSURE	DESCRIPTION	
Α	13-5/8"	500 psi	Rot Head	
В	13-5/8"	3000 psi	Spacer Spool	
С	13-5/8"	3000 psi	Annular	
D	13-5/8"	3000 psi	Mud Cross	
E	13-5/8"	3000 psi	Spacer Spool	
DSA		13-5/8" 3M x 13-5/8" 3M (if needed)		
	A-Sec	13-3/8"	SOW x 13-5/8" 3M	



SIZE PRESSURE DESCRIPTION

2"	5000 psi	Check Valve			
2"	5000 psı	Gate Valve			
2"	5000 psi	Gate Valve			
	·				

SIZE	PRESSURE	DESCRIPTION
4"	5000 psi	Gate Valve
4"	5000 psi	HCR Valve

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : Willow Lake 10 State Com 1H

RIG : Patterson 142

COUNTY : Eddy STATE: New Mexico

OPERATION: Drill out below 9-5/8" Casing (8-3/4"/8-1/2" hole size)

	SIZE	PRESSURE	DESCRIPTION	
Α	11"	500 psi	Rot Head	
В	11"	5000 psi	Annular	
С	11"	5000 psi	Pipe Rams	
۵	11"	5000 psi	Blind Rams	
E	11"	5000 psi	Mud Cross	
				A
	DSA	11" 5M x 1	1" 5M (only if needed)	
	B-sec	13-5	i/8" 3M x 11" 5M	
	A-Sec	13-3/8"	SOW x 13-5/8" 3M	
				<u></u>
			Œ	B C C C C C C C C C C C C C C C C C C C
1	\			
				B-Sec A-Sec

SIZE	PRESSURE	DESCRIPTION
2"	5000 psi	Check Valve
2"	5000 psi	Gate Valve
2"	5000 psi	Gate Valve
		·

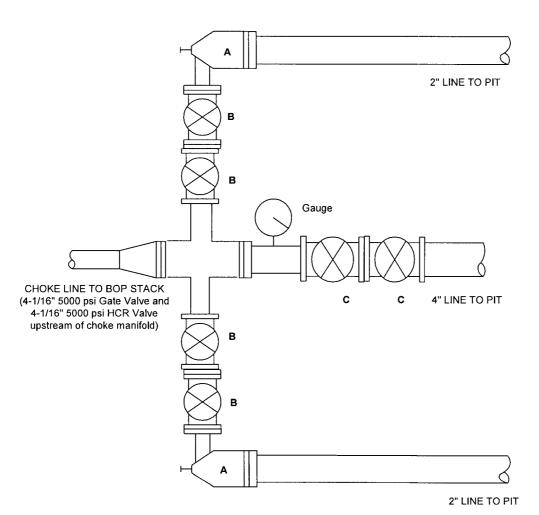
:000 noi	
5000 psi	Gate Valve
000 psi	HCR Valve
	7.

CHOKE MANIFOLD SCHEMATIC CHESAPEAKE OPERATING, INC.

WELL: Willow Lake 10 State Com 1H

RIG : Patterson 142

COUNTY: Eddy STATE: New Mexico OPERATION: Drilling below/beyond 13-3/8" surface casing



Choke Controls - At Least One Choke Also Remotely Controlled From Rig Floor

	SIZE	PRESSURE	DESCRIPTION
Α	2-1/16" 5000 psi		Manual Choke
В	B 2-1/16" 5000 psi		Gate Valve
С	C 4-1/16" 5000 psi		Gate Valve

Permian District

NM - Eddy - Morrow Project Willow Lake 10 State Com 1H Well #1 Wellbore #1

Plan: Plan #1

Standard Planning Report

03 September, 2008

Planning Report

Local Co-ordinate Reference

Database: Drilling Database Permian District Company: Project: NM - Eddy - Morrow Project Site: Willow Lake 10 State Com 1H

Well #1

Plan #1

Wellbore #

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Well #1 WELL @ 0 0ft (Original Well Elev) WELL @ 0 0ft (Original Well Elev)

Minimum Curvature

Project NM:= Eddy -- Morrow Project

Map System: Geo Datum:

Map Zone:

Well:

Wellbore:

Design:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

Ground Level System Datum:

Willow Lake 10 State Com 1H Site

ft

Site Position: From: None Position Uncertainty:

Northing: Easting: Slot Radius: ft Latitude:

Longitude: ft ın

Grid Convergence: 0 00 °

Well #1 30° 59' 24 51165130 N 0 00 ft **Well Position** +N/-S 0 0 ft Latitude: Northing: 0 00 ft 105° 55' 44 13731823 W +E/-W 0 0 ft Easting: Longitude: **Position Uncertainty** ft Wellhead Elevation: **Ground Level:** 0 0 ft

Magnetics Model Name Sample Date Declination Dip Angle Field Strength	

Design Plan #1					No. of the Control of
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0 0	
Vertical Section:	epth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0 0	0 0	0 0	90 00	

Plan Sections						48,533,033				175 garage (175 garage)
Measured			Vertical			Dogleg	Build	Turn		
Section of the second section of the second second	Inclination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	
(ft)	(°)	(°)	(ft)	(ft)	(ft) :	(°/100ft)	(°/100ft)	(°/100ft)	(°)	Target
0.0	0 00	0 00	0.0	0.0	0.0	0 00	0 00	0 00	0 00	222
	0 00		= =			0 00	0 00	0 00	0 00	
4,310 0		0 00	4,310 0	0 0	00					
5,064 2	88 90	90 00	4,796 0	0 0	476 8	11.79	11 79	0 00	90 00	
8,105 2	88 90	90 00	4,854 4	0 0	3,517 2	0 00	0 00	0 00	0 00	

Planning Report

Database: Drilling Database
Company: Perman District
Project: NM - Eddy - Morrow Project
Site: Willow Lake 10 State Com 1H
Well: Well #1
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well Well #1
TVD Reference: WELL @ 0 of
MD Reference: WELL @ 0 of
North Reference: True
Survey Calculation Method: Minimum Cur

Well Well #1
WELL @ 0 0ft (Original Well Elev)
WELL @ 0 0ft (Original Well Elev)
True)
Minimum Curvature

Planned Survey			11.7		and something				190
	100								0.00
Measured			Vertical			Vertical	Dogleg	Build	Turn
The state of the s		Azimuth	Depth (ft)	+N/-S	National Control of the Control of the	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
	(°)	(°)	2	(ft)	(ft)				12.5
00	0 00	0 00	00	0 0	0 0	0 0	0 00	0 00	0 00
100 0 200 0	0 00 0 00	0 00 0 00	100 0 200 0	0 0 0 0	0 0 0 0	0 0 0 0	0 00 0 00	0 00 0 00	0 00 0 00
300 0	0 00	0 00	300 0	00	0 0	0.0	0 00	0 00	0 00
400 0	0 00	0 00	400 0	0 0	0 0	0 0	0 00	0 00	0 00
13/3/8"									
500 0	0 00	0 00	500 0	0 0	0 0	0 0	0 00	0 00	0 00
600 0	0 00	0 00	600 0	0 0	0 0	0 0	0 00	0 00	0 00
700 0	0 00	0 00	700 0	0 0	0 0	0 0	0 00	0 00	0 00
800 0	0 00	0 00	800 0	0 0	0 0	0 0	0 00	0 00	0 00
900 0	0 00	0 00	900 0	0 0	0 0	0 0	0 00	0 00	0 00
1,000 0	0 00	0 00	1,000 0	0 0	0 0	0 0	0 00	0 00	0 00
1,100 0	0 00	0 00	1,100 0	0 0	00	0.0	0 00	0 00 0 00	0 00
1,200 0 1,300 0	0 00 0 00	0 00 0 00	1,200 0 1,300 0	0 0 0 0	0 0 0 0	0 0 0 0	0 00 0 00	0 00	0 00 0 00
1,400 0	0 00	0 00	1,400 0	0 0	0.0	0.0	0 00	0 00	0 00
1,500 0	0 00	0 00	1,500 0	0 0	0 0	0 0	0 00	0 00	0 00
1,600 0	0 00	0 00	1,600 0	0.0	0 0	0 0	0 00	0 00	0 00
1,700 0	0 00	0 00	1,700 0	0 0	0 0	0 0	0 00	0 00	0 00
1,800 0	0 00	0 00	1,800 0	0 0	0 0	0.0	0 00	0 00	0 00
1,900 0	0 00	0 00	1,900 0	0 0	0 0	0 0	0 00	0 00	0 00
2,000 0	0 00	0 00	2,000 0	0 0	0 0	0 0	0 00	0 00	0 00
2,100 0	0 00	0 00	2,100 0	0 0	0 0	0 0	0 00	0 00	0 00
2,200 0	0 00	0 00	2,200 0	0 0	0 0	0.0	0 00	0 00	0 00
2,300 0 2,400 0	0 00 0 00	0 00 0 00	2,300 0 2,400 0	0 0 0 0	0 0 0 0	0 0 0 0	0 00 0 00	0 00 0 00	0 00 0 00
			·						
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9 5/8"	0.00		2,0100					0.00	
2,600 0	0 00	0 00	2,600 0	0 0	0 0	0 0	0 00	0 00	0 00
2,700 0	0 00	0 00	2,700 0	0 0	0 0	0 0	0 00	0 00	0 00
2,800 0	0 00	0 00	2,800 0	0 0	0 0	0 0	0 00	0 00	0 00
2,900 0	0.00	0 00	2,900 0	0.0	0 0	0 0	0 00	0 00	0.00
3,000 0	0 00	0 00	3,000 0	0 0	0 0	0 0	0 00	0 00	0 00
3,100 0 3,200 0	0 00 0 00	0 00 0 00	3,100 0 3,200 0	0 0 0 0	0 0 0 0	0 0 0 0	0 00 0 00	0 00 0 00	0 00 0 00
3,300 0	0 00	0 00	3,200 0	00	00	00	0 00	0 00	0 00
3,400 0	0 00	0 00	3,400,0	00	0 0	0 0	0 00	0 00	0.00
3,500 0	0 00	0 00	3,500.0	0.0	00	00	0 00	0 00	0.00
3,600 0	0 00	0 00	3,600 0	0 0	0 0	0 0	0 00	0 00	0.00
3,700 0	0 00	0 00	3,700 0	0 0	0 0	0 0	0 00	0 00	0 00
3,800 0	0 00	0 00	3,800 0	0 0	0 0	0 0	0 00	0 00	0 00
3,900 0	0 00	0 00	3,900 0	0 0	0 0	0 0	0 00	0 00	0 00
4,000 0	0 00	0 00	4,000 0	0 0	0 0	0 0	0 00	0 00	0 00
4,100 0	0 00	0 00	4,100 0	0 0	00	0 0	0 00	0 00	0 00
4,200 0 4,300 0	0 00 0 00	0 00 0 00	4,200 0 4,300 0	0 0 0 0	0 0 0 0	0 0 0 0	0 00 0 00	0 00 0 00	0 00 0 00
4,310 0 4,400 0	0 00 10 61	0 00 90 00	4,310 0 4,399.5	0 0 0.0	0 0 8 3	00 83	0 00 11.79	0 00 11.79	0 00 0 00
4,500 0	22 40	90 00	4,399.5 4,495.2	0.0	36 7	36 7	11.79	11.79	0 00
4,600 0	34 18	90 00	4,583 1	0 0	84 0	84 0	11 79	11 79	0 00
4,700 0	45 97	90 00	4,659 5	0 0	148 2	148 2	11 79	11 79	0 00
4,800 0	57 76	90 00	4,721 1	0 0	226 8	226 8	11 79	11 79	0 00

Planning Report

Database: Drilling Database:
Company: Perman District.
Project: NM:- Eddy -: Morrow Project.
Site: Willow Lake:10 State Com 1H.
Well: Well #1.

Well: Well#1.
Wellbore: Wellbore #1.
Design: Plan #1.

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Well #1

WELL @ 0 0ft (Original Well Elev) WELL @ 0 0ft (Original Well Elev)

True

Mınımum Curvature

Measured			Vertical		with the second	Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
4,900 0	69 54	90 00	4,765 4	0 0	316 2	316 2	11 79	11 79	0 00
5,000 0	81 33	90 00	4,790 5	0 0	412 8	412 8	11 79	11 79	0 00
5,064 2	88 90	90 00	4,796 0	0 0	476 8	476 8	11 79	11 79	0 00
5,100 0	88 90	90 00	4,796 7	0 0	512 5	512 5	0 00	0 00	0 00
5,200 0	88 90	90 00	4,798 6	0 0	612 5	612 5	0 00	0 00	0 00
5,300 0	88 90	90 00	4,800 5	0 0	712 5	712 5	0 00	0 00	0 00
5,400 0	88 90	90 00	4,802 4	0 0	812 5	812 5	0 00	0 00	0 00
5,500 0	88 90	90 00	4,804 4	0 0	912 5	912 5	0 00	0 00	0 00
5,600 0	88 90	90 00	4,806 3	0 0	1,012 4	1,012 4	0 00	0 00	0 00
5,700 0	88 90	90 00	4,808 2	0 0	1,112 4	1,112 4	0 00	0 00	0 00
5,800.0	88 90	90 00	4,810 1	0 0	1,212 4	1,212 4	0 00	0 00	0 00
5,900 0	88 90	90 00	4,812 0	0 0	1,312 4	1,312 4	0 00	0 00	0 00
6,000 0	88 90	90 00	4,814 0	0 0	1,412 4	1,412 4	0 00	0 00	0 00
6,100 0	88 90	90 00	4,815 9	0 0	1,512 4	1,512 4	0 00	0 00	0 00
6,200 0	88 90	90 00	4,817 8	0 0	1,612 3	1,612 3	0 00	0 00	0 00
6,300 0	88 90	90 00	4,8197	0 0	1,712 3	1,712.3	0 00	0 00	0 00
6,400 0	88 90	90 00	4,821 6	0 0	1,812 3	1,812 3	0 00	0 00	0 00
6,500 0	88 90	90 00	4,823 6	0 0	1,912 3	1,912 3	0 00	0 00	0 00
6,600 0	88 90	90 00	4,825 5	0 0	2,012 3	2,012 3	0 00	0 00	0 00
6,700 0	88.90	90 00	4,827 4	0 0	2,112 2	2,112 2	0 00	0 00	0 00
6,800 0	88 90	90 00	4,829 3	0 0	2,212 2	2,212 2	0 00	0 00	0 00
6,900 0	88 90	90 00	4,831.2	0 0	2,312 2	2,312 2	0 00	0 00	0 00
7,000 0	88 90	90 00	4,833 2	0 0	2,412 2	2,412 2	0 00	0 00	0 00
7,100 0	88 90	90 00	4,835 1	0 0	2,512 2	2,512 2	0 00	0 00	0 00
7,200 0	88 90	90 00	4,837 0	0 0	2,612.1	2,612 1	0 00	0 00	0 00
7,300 0	88 90	90 00	4,838 9	0 0	2,712 1	2,712 1	0.00	0 00	0 00
7,400 0	88 90	90 00	4,840 8	0 0	2,812 1	2,812 1	0 00	0 00	0 00
7,500 0	88 90	90 00	4,842 8	0 0	2,912 1	2,912 1	0 00	0 00	0 00
7,600 0	88 90	90 00	4,844 7	0 0	3,012 1	3,012 1	0 00	0 00	0 00
7,700 0	88 90	90 00	4,846 6	0 0	3,112 1	3,112 1	0 00	0 00	0 00
7,800 0	88 90	90 00	4,848 5	0 0	3,212 0	3,212 0	0 00	0 00	0 00
7,900 0	88 90	90 00	4,850 4	0 0	3,312 0	3,312 0	0 00	0 00	0 00
8,000 0	88 90	90 00	4,852 4	0 0	3,412 0	3,412 0	0 00	0 00	0 00
8,100 0	88 90	90 00	4,854 3	0 0	3,512 0	3,512 0	0 00	0 00	0 00
8,105 2	88 90	90 00	4,854 4	0 0	3,517 2	3,517 2	0 00	0 00	0 00
5-1/2"		MADE TO SERVE							and the second

HERM AND THE CONTRACT OF THE RESERVE AND AND THE PROPERTY OF THE PROPERTY OF THE AND THE PROPERTY OF THE PROPE	'ertical Depth (ft)		Name	Casing: Diameter (in)	Hole Diameter (in)	
400 0	400 0	13 3/8"		13 375	17 500	
2,515.0	2,515 0	9 5/8"		9.625	12 250	
8,105 2	4,854 4	5 1/2"		5 500	8 750	

