

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address ConocoPhillips Company 4001 Penbrook Street Odessa TX 79762		² OGRID Number 217817
		³ API Number 30-025-36442
⁴ Property Code 32995	⁵ Property Name Hedley Lamar "28" State Com	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	28	21-S	35-E		720	South	1650	West	Lea

⁸ Proposed 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

⁹ Proposed Pool 1 Grama Ridge Morrow East (Gas)	¹⁰ Proposed Pool 2
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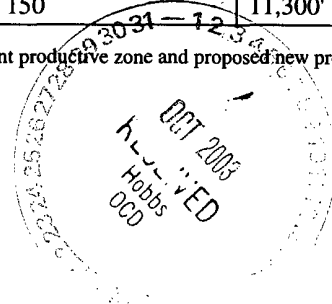
¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation
¹⁶ Multiple N	¹⁷ Proposed Depth 12,800'	¹⁸ Formation Morrow	¹⁹ Contractor N/A	²⁰ Spud Date 01/ /2004

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
	20" Conductor Pipe		40'	Ready Mix	Surface
17-1/2"	13-3/8"	61#	1,200'	1,035	Surface
12-1/4"	9-5/8"	40#	5,600'	1,125	1,200'
8-1/2"	7"	26#	11,800'	860	4,800'
6-1/8"	4-1/2"	13.5#	12,800'	150	11,300'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.
Describe the blowout prevention program, if any. Use additional sheets if necessary.
See Attachments

Permit Expires 1 Year From Approval
Date Unless Drilling Underway



²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Celeste G. Dale</i> Printed Name: Celeste G. Dale Title: Regulatory Analyst Date: 10/02/2003		OIL CONSERVATION DIVISION Approved by: <i>Paul E. Kelly</i> Title: PETROLEUM ENGINEER Approval Date: OCT 07 2003 Expiration Date: Conditions of Approval: Attached <input type="checkbox"/>	
Phone: (432)368-1667			

DISTRICT I

P.O. Box 1988, Hobbs, NM 88241-1988

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36442	Pool Code 77690	Pool Name Grama Ridge Morrow East (Gas)
Property Code 32995	Property Name HEDLEY LAMAR "28" STATE COM.	Well Number 1
OGRID No. 217817	Operator Name CONOCO PHILLIPS COMPANY	Elevation 3629'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	28	21-S	35-E		720	SOUTH	1650	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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

<p>GEODETIC COORDINATES NAD 27 NME Y = 526778.8 X = 795550.8 LAT. 32°26'40.50"N LONG. 103°22'31.06"W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Celeste G. Dale</i> Signature</p> <p>Celeste G. Dale Printed Name</p> <p>Regulatory Analyst Title</p> <p>10/02/03 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>SEPTEMBER 18, 2003</p> <p>Date Surveyed</p> <p><i>GARY EIDSON</i> Signature of Professional Surveyor</p> <p>NEW MEXICO Professional Surveyor 03-11-1030</p> <p>Certificate No. GARY EIDSON 12641</p>

GENERAL DRILLING PROGRAM – Attachment to Form C-101

ConocoPhillips Company – Hedley Lamar “28” State Com #1
660’ FSL, 1650 FEL, Section 28, T21S, R35E
Lea County, New Mexico

Elevation: Proposed Total Depth: 12,800’

Estimated Formation Tops

Anhydrite	1825’
B/Salt	3550’
Yates	3800’
Cherry Canyon	6025’
Bone Spring	7750’
Wolfcamp	10,600’
Strawn	11,100’
B. Strawn	11,650’
Atoka	11,850’
Morrow	12,375’

Casing/Cement Program

<u>Hole Size</u>	<u>Casing Size/Weight/Grade</u>	<u>Setting Depth</u>	<u>Cement</u>	<u>Est. TOC</u>
	20” Conductor pipe	40’	Ready Mix	Surface
17-1/2”	13-3/8 61# J-55 ST&C	1200’	Lead:800sx 35:65 Poz:Cl. C +6% D20+ 0.25 pps D29 Tail: 235sx Class C+ 2% S1 +0.25 pps D29	Surface
12-1/4”	9-5/8” 40# N-80/K-55 LT&C	5600’	Lead:925sx 35:65 Poz:Cl. C +6% D20+0.25 pps D29 Tail: 200sx Class C Neat	1200’
8-1/2”	7” 26# HCP-110 LT&C	11,800’	860sx 50:50 Poz: Class H+6% D44 + 2% D20+0.4% D59	4800’
6-1/8”	4-1/2” 13.5# HCP-110 LT&C liner 11,500’ – 12,800’	12,800’	150sx Class H+1gps D600+0.03 gps M45+0.1gps D801+0.05gps D604AM	11,300’

Drilling Fluids Program

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Comments</u>
0-1200’	8.4-8.8	32-34	NC	fresh gel, caustic, paper
1200’-5600’	9.9-10.0	28-30	NC	cut brine water, lime, paper Star NP-110
5600’-11,800’	9.0-9.5	28-32	NC	fresh/cut brine, caustic, paper Star NP-110
11,800’-12,800’	10.0-12.0	38-45	<10cc	xanthan gum, white starch, caustic, barite if needed

Blowout Prevention Program – Attachment to Form C-101

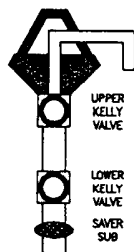
- 0-12 20" 2000# annular preventor system.
- 1200'-5600' 13-5/8" 3000# double ram type preventors and a 3000# annular preventor. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Test BOP to 1000 psi.
- 5600'-11,800' 11" 10,000# triple ram type preventors, 5000# annular preventor and rotating head body. Test BOP to 3000 psi. Install hydraulic drilling choke and mud/gas separator prior to 11,000'.
- 11,800'-12,800' 11" 10,000# triple ram type preventors, 5000# annular preventor and rotating head body. Test all rams, choke manifold, kill line, upper and lower kelly valves to 10,000 psi. Test annular BOP to 3000 psi.

Any equipment failing to test satisfactorily, will be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log.

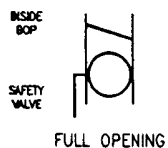
The BOP's will be maintained ready for use until drilling operations are completed. BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind And pipe rams of the hydraulic preventors.

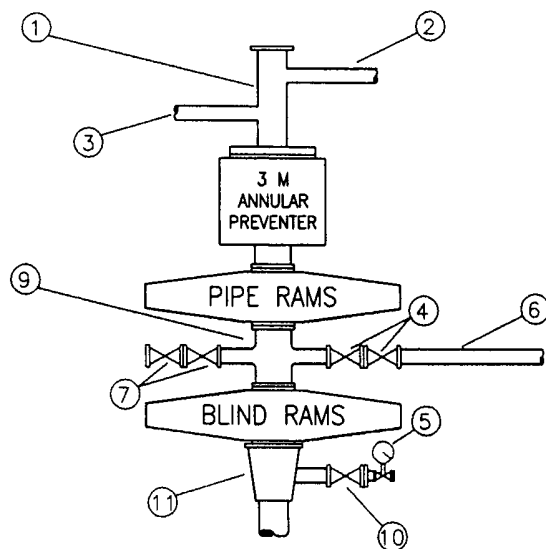
DRILLSTRING CONTROL DEVICES



ON DRILL FLOOR



BOP STACK



- 1 BELL NIPPLE
- 2 FLOW LINE
- 3 FILL-UP LINE
- 4 3" FE PRESSURE-OPERATED CHOKE LINE VALVE
- 5 PRESSURE GAUGE
- 6 3" CHOKE LINE TO CHOKE MANIFOLD
- 7 3" FE GATE OR PLUG VALVES
- 8 2" KILL LINE
- 9 DRILLING SPOOL
- 10 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
- 11 CASING HEAD HOUSING

CHOKE MANIFOLD

DISCHARGE MANIFOLD OPTIONAL FOR LAND RIGS

