

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
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

Form C-101  
Revised June 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

MAR 22 2004

OCD-ARTESIA

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

<sup>1</sup> Operator Name and Address Pure Resources, L. P. 500 W. Illinois Midland, Texas 79701		<sup>2</sup> OGRID Number 150628
		<sup>3</sup> API Number 30 - 015-33149
<sup>3</sup> Property Code 32891	<sup>5</sup> Property Name MEAD	<sup>6</sup> Well No. 5

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	22-S	27-E		660	South	1060	East	EDDY

<sup>8</sup> 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
<sup>9</sup> Proposed Pool 1 Undesignated (Wolfcamp)						<sup>10</sup> Proposed Pool 2			

<sup>11</sup> Work Type Code A	<sup>12</sup> Well Type Code M	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3118'
<sup>16</sup> Multiple Yes	<sup>17</sup> Proposed Depth 9700'	<sup>18</sup> Formation Wolfcamp	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 3/24/2004

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48# H-40	425'	365	Surface
12-1/4"	9-5/8"	36# J-55 STC	3,038'	1100	Surface
8-3/4"	7"	26# P-110 LTC	11,765'	570 Stg. 1	8784' DV Tool
				1115 Stg. 2	1,742' by TS

<sup>22</sup> 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.

(Above casing details are actual as well is currently drilled to TD@11,765') This C-101 is to add the Wolfcamp zone to this well's original C-101. We plan to dually complete (two tubing strings w/packers) this Undesignated (Wolfcamp) and the Carlsbad; (Morrow), South (Pro Gas) pool in this wellbore.

Please see attached completion procedure, wellbore schematic, and C-102 Plat for Undesignated (Wolfcamp).

BOP Equipment: Rated 5K Working Pressure Coiled Tubing BOP during cleanout, 5K frac valves during treatment.

NSL 5040

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Alan W. Bohling*

Printed name: Alan W. Bohling

Title: Regulatory Agent

E-mail Address: abohling@pureresources.com

Date: 03/19/2004

Phone: (432) 498-8662

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: APR 06 2004 Expiration Date:

Conditions of Approval:

Attached ☐

Work Only

## Mead #5 Completion Procedure



A Unocal Company

1. Clean location, set anchors. MIRU PU and reverse unit. NU BOP. Test BOP to 5000.
2. GIH w/ 6-1/8" bit, DC's on 2 7/8" 6.5# L-80 EUE 8rd production tubing.
3. Drill out DV tool @ 8784'. Test casing to 2000 psi.
4. TIH, tag TD. Circ hole clean w/ 7% KCl water. Spot 200 gal. 10% acetic acid across zone 1 f/ 11641.
5. POH w/ bit. ND BOP. NU dual 7 1/16" frac valves.
6. RU well testers with line to pit, flare and test tank.
6. RU WL and lubricator. Run GR CCL f/ PBD to 9000'. Correlate to Schul TD LDT CNL/HNGS dated 3/8/04.  
Perf Morrow C (zone 1) w/ 2 spf @ 11498, 554, 62, 78, 80, 82, 84, 86, 91, 602, 04, 06, 08 (26 holes).
7. RU frac equip.
8. Break down zone 1 11498- 11608. Spear-head 1500 gal 7 1/2% foamed NEFE and frac w/ 60,000 gal.  
65 Q foam and 50000# 20/40 interprop at 30 bpm and 5000 psi.
9. Flow back at 20 bph for 2 hrs then 60 bph until next day.
10. RU WL and lubricator. Set composite BP @ 11470±.
11. Perf Morrow B (zone #2) w/ 2 spf @  
11246, 50, 62, 67, 304, 06, 08, 17, 20, 22, 24, 42, 79, 408, 10, 12, 14 (34 holes)
12. Frac zone 2 11246-414 w/ 1500 gal 7 1/2% foamed NEFE, 60000 gal 70 quality foam and 50,000#  
20/40 interprop at 30 bpm and 5000 psi.
13. Flowback overnight at 20 bph for 2 hrs the 60 bph until next day.
14. RU WL and lubricator. Set composite BP @ 11220±.
15. Perf Morrow A (zone 3) w/ 4 spf @ 11164-80. (56 holes)
16. Frac zone 3 11164-80 w/ 1500 gal 7 1/2% foamed NEFE, 48000 gal 70 quality foam and 40000 #  
20/40 interprop @ 30 bpm and 5000 psi.
17. Flow back at 20 bph for 2 hrs then 60 bph until next working day.
18. RU coiled tubing. RIH w/ mill, motor on coiled tubing.
19. Drill out composite bridge plugs and push to bottom. Circ w/ N2 / foam.
20. RU wireline and lubricator.
21. RIH w/ tailpipe w/ pump out plug, pkr and o/o tool on wireline. Set pkr @ 11080±. ND frac valves. NU BOP.
22. GIH w/ 2 - 3/8" 4.7# L-80 EUE 8rd turned down and beveled, on off tool shuck and dual packer spaced to set @ 9550'±.
23. Space out w/ minimum compression. Test casing to 2000. Land long string.
24. Run 2 3/8" 4.7# L-80 EUE 8rd turned down and beveled short string and latch assembly. Space out. Circ 7% KCl pkr fluid.
22. Test backside to 2000:
24. ND BOP. NU dual 2 1/16" 5000 psi tree.
25. Pump out plug in long string. Kick Morrow off and flow test to clean up. SI.
26. RU wireline and lubricator on short string. Perf Wolfcamp 9654-84 w/ oriented tubing gun.
27. RU stim equip. Acidize Wolfcamp w/ 10,000 gal 15% NEFE.
28. Kick well off and flow test to clean up.
29. Shut in and allow both zones to stabilize.
30. RIH w/ tandem 5000 psi BHP bombs in long string.
31. Run 4 point.
32. RIH w/ tandem 10000 psi BHP bombs in short string.
33. Run Wolfcamp 4 point test.
34. Run packer leakage test.

Will sell gas to sales while testing if possible per El Paso Field services.

WELL: MEAD #5  
FIELD: Carlsbad South



A Unocal Company

API # 30-015-33149

Surf Loc: 660' FSL 1060' FEL Sec 5 T22S R27E

Eddy Co., New Mexico

Elev: GL 3118', KB 3138' (RKB 20')

Spud: 2/2/04 RR 3/13/04

First Sales:

13-3/8" 48# H-40 STC @ 425'  
Cmtd to surf w/ 365 sx.

TOC 1742' TS

9-5/8" 36# J-55 STC @ 3038'  
Cmtd to surf w/ 1100 sx.

DV tool @ 8784'

Dual packer @ 9550±'

Wolfcamp perms 9654-9684

On/off tool w/ 2.31" F nipple @ 11,058'±

Model WL 10k retrv. pkr @ 11060±'

Morrow A Perfs 11164-80 (2 spi - 28 holes)

Frac w/ 50000 gal. 65Q foam and 40000 # 20/40 interprop

Morrow B Perfs 11246 - 11414 (2 spi, 34 holes)

Frac w/ 60000 gal 65Q foam and 50000 # 20/40 interprop

Morrow C Perfs 11498 - 11641 (2 spi - 28 holes )

Frac w/ 60000 gal 65Q foam and 50000# 20/40 interprop

TD 11, 765'

7" 26# P-110 LTC set @ 11,765'

Cmtd in 2 stages w/ DV tool @ 8xx3'

Stage 1: 570 sx. Circ cmt to DV tool.

Stage 2: 1115 sx. TOC 1742 TS.

DISTRICT I  
P.O. Box 1000, Hobbs, NM 88241-1000

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  
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Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-33149	Pool Code	Pool Name Undesignated (Wolfcamp)
Property Code 32891	Property Name MEAD	Well Number 5
OGRID No. 150628	Operator Name PURE RESOURCES, L.P.	Elevation 3118'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	22-S	27-E		660	SOUTH	1060'	EAST	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
Dedicated Acres 320	Joint or Infill	Consolidation Code	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

LOT 4	LOT 3	LOT 2	LOT 1
40.23 AC	40.22 AC	40.21 AC	40.20 AC
<p>GEODETIC COORDINATE NAD 27 NME Y = 515232.5 N X = 539272.7 E LAT. = 32°24'59.13"N LONG. = 104°12'21.84"W</p>			
<p>RECEIVED MAR 22 2004 OCD-ARTESIA</p>			
<p>1060' 660'</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>Alan W. Bohling</i> Signature Alan W. Bohling Printed Name Regulatory Agent Title 3/19/2004 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>JANUARY 8, 2004 Date Surveyed LWP Signature &amp; Seal of Professional Surveyor GARY EIDSON 1/15/04 04.11.0012 Certificate No. GARY EIDSON 12641</p>			