

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

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

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-38552	² Pool Code 76480	³ Pool Name Eumant; Yates - 7 Rivers - Queen
⁴ Property Code 300979	⁵ Property Name BV CULP NCT A com	⁶ Well Number 1
⁷ OGRID No. 5898	⁸ Operator Name DAVID H. ARRINGTON OIL & GAS, INC.	⁹ Elevation 3658'

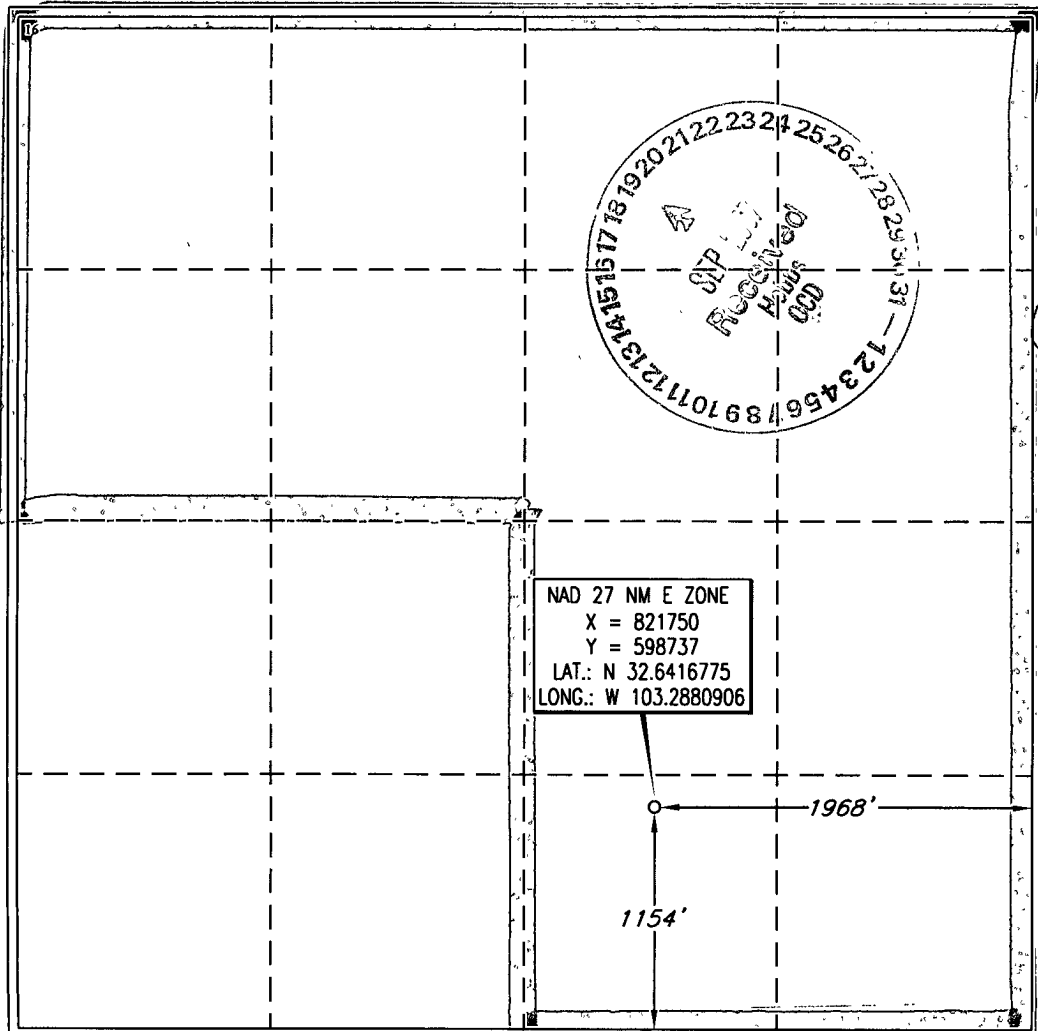
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	19	19 SOUTH	37 EAST, N.M.P.M.		1154'	SOUTH	1968'	EAST	LEA

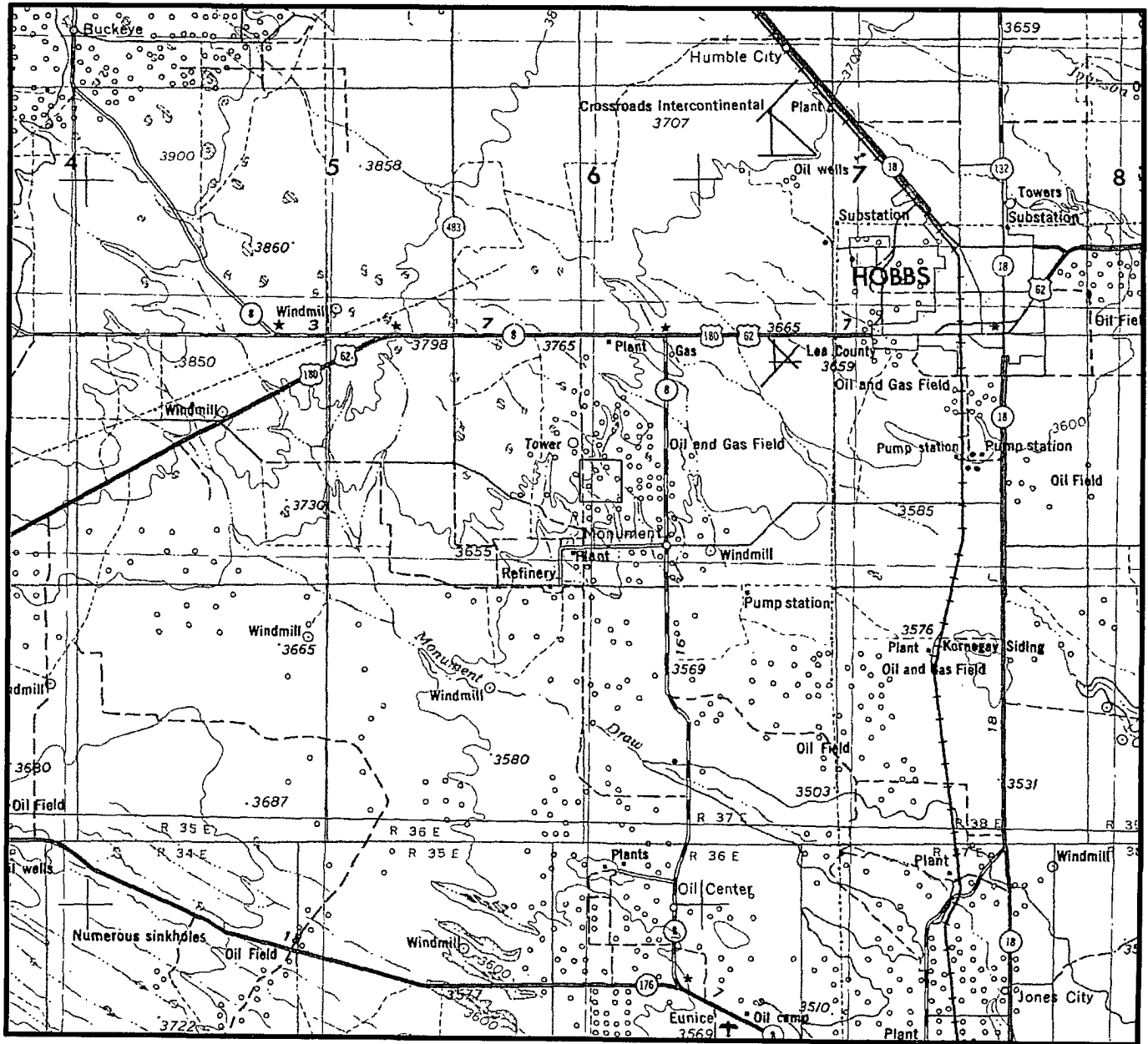
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 480	¹³ Joint or Infill Y	¹⁴ Consolidation Code U	¹⁵ Order No.						

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<h4>¹⁷ OPERATOR CERTIFICATION</h4> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <u>Debbie Freeman</u> Date: <u>9/1/07</u></p> <p>Printed Name: <u>Debbie Freeman</u></p> <hr/> <h4>¹⁸ SURVEYOR CERTIFICATION</h4> <p>I hereby certify that the well location shown on this plat was placed from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>7920 AUGUST 8, 2007</p> <p>Date of Survey: <u>August 8, 2007</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u></p> <p>Certificate Number: <u>V. L. BEZNER</u> R.P.S. #7920 JOB #125708 / 71 NE / E.U.O.</p>
---	---

VICINITY MAP



SECTION 19 TWP 19-S RGE 37-E
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY LEA STATE NM
 DESCRIPTION 1154' FSL & 1968' FEL

OPERATOR DAVID H. ARRINGTON OIL & GAS
 LEASE BV CULP #1
NCTA.com

DISTANCE & DIRECTION FROM THE JUNCTION OF HIGHWAY 82
& COUNTY ROAD 8 (SANTA RD.) 17 MILES WEST OF ARTESIA,
GO SOUTH 2.0 MILESD ON CO. RD. 8, THENCE EAST 1.4
MILES ON LEASE ROAD TO A POINT ±1575' SOUTH OF
LOCATION.

N

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Review this plat and notify us immediately of any possible discrepancy.

1307 N. HOBART
 PAMPA, TX. 79065
 (800) 658-6382

6709 N. CLASSEN BLVD.
 OKLAHOMA CITY, OK. 73116
 (800) 654-3219

2903 N. BIG SPRING
 MIDLAND, TX. 79705
 (800) 767-1653

~~NCT A Com~~
~~No. 154~~
B.V. Culp No. 1
Eumont Field
Lea County, NM

1154' FSL
1968' FEL
Sec 19
T19S
R37E

Proposed Wellbore

KB: TBD
GL: 3658'

Bit Size: 11"

8-5/8" 24# J55 STC @ 440'
w/ 250 sx C w/ 2% CaCl₂ & 1/4# flocele (14 8/1 34)
Cement Circulated (Est. AHS=12.9" + 75 sx)

T/ Salt @ 1360'

B/ Salt @ 2415'

Yates @ 2550'

Bit Size: 7-7/8"

Seven Rivers @ 2800'

Queen @ 3410'

5-1/2" 17# J55/N80 LTC @ 3700'
w/ 490 sx Lite C (65 35 6) w/ 2% CaCl₂ & 1/4 pps flocele
(12 8/1 88) and
280 sx C w/ 2% CaCl₂ (14.8/1 34)
Cement Circulated (Est. AHS=9.4" + 100 sx)

TD: 3700'
PBTD: 3655'

David H. Arrington Oil & Gas Inc.
 BV Culp ~~15~~ No. 1 *NCT A com*
 1154' FSL & 1968' FEL
 S19, T19S, R37E
 Lea County, NM

1. Ground Elevation above Sea Level: 3658'

2. Proposed drilling depth 3,700'

3. Estimated tops of geological markers:

Yates	2550'
Seven Rivers	2800'
Queen	3410'

4. Possible mineral bearing formations:

Yates / Seven Rivers / Queen Gas

5. Casing Program

<u>Hole size</u>	<u>Interval</u>	<u>OD of Casing</u>	<u>Weight</u>	<u>Thread</u>	<u>Grade</u>	<u>TOC</u>
11"	40' - 440'	8-5/8"	24#	STC	J55	Surf
7-7/8"	440' - 3700'	5-1/2"	17#	LTC	J55 - N80	Surf

6. Cementing and Setting Depth

8-5/8"	Surface	440'	Set 8-5/8" 24# J55 STC and cement to surface with ~ 250 sx class C with 2% CaCl ₂ .
5-1/2"	Production	3,700'	Set 3,700' of 5-1/2" 17# J55 - N80 LTC. Cement to surface with ~ 490 sx Light C + additives and ~ 280 sx class C w/ 2% CaCl ₂ .

7. Pressure Control Equipment: After setting 8-5/8" casing and installing 3000 psi casing head, NU 9" 3000 psi double ram BOP and 3000 psi annular BOP, and test with clear fluid to 2000 psi using 3rd party testers.

8. Proposed Mud Circulating System

<u>Interval</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>FL</u>	<u>Type Mud System</u>
40' - 440'	8.4 - 8.9	28 - 34	NC	Fresh water spud mud. Add paper for seepage.
440' - 2500'	9.8 - 10.1	28 - 30	NC	Saturated brine w/ MF-55 & paper sweeps as needed.
2500' - 3700'	10.0 - 10.2	30 - 32	<12	Mud up with starch & MF-55 for logs

Will utilized closed loop system – no reserve pits.

9. Formation Evaluation

Mud Logging: 440' – 3700'

OH Logs

<u>Log</u>	<u>Top Interval</u>	<u>Bottom Interval</u>	<u>Remarks</u>
SPeD-CNT-SGR-CAL	2200'	3700'	SGR-CNT to surface
MRT-DLL	2200'	3700'	

NCTA.com
BV Culp ~~154~~ No. 1
Rig Pad Lay-Out

