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HOBBSOCD

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

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

DISTRICT III
1000 Rio Brazos Rd., 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, New Mexico 87505

Form C-102
Revised October 15, 2009

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-39385	79335	JOHNSON RANCH; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	THISTLE UNIT	8

OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY LP	3666'

Surface Location

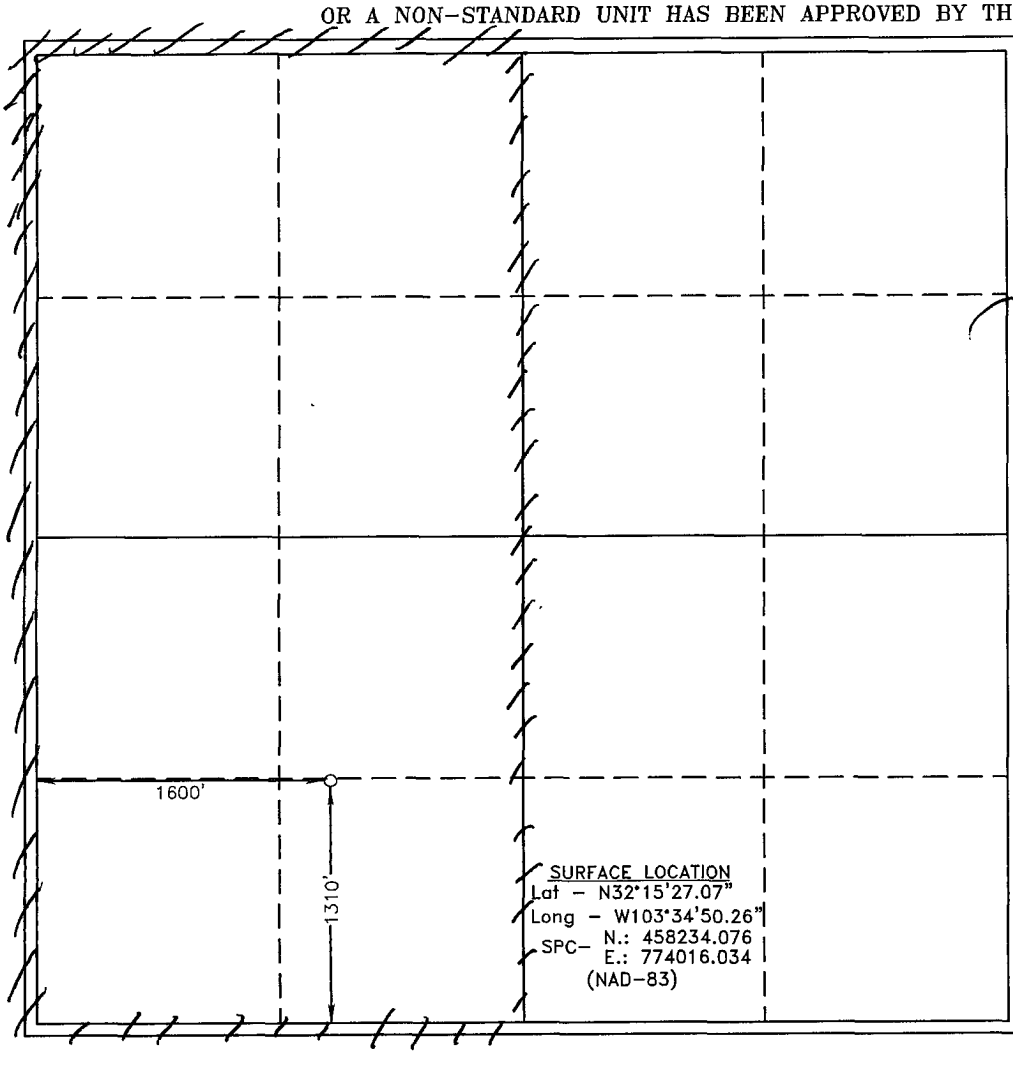
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	23 S	33 E		1310	SOUTH	1600	WEST	LEA

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	Joint or Infill	Consolidation Code	Order No.
320			

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



OPERATOR CERTIFICATION

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.

Signature 11/25/09 Date

Norvella Adams
Printed Name

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my belief

DECEMBER 19, 2008
Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

W.O. Num. 29385

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

THISTLE UNIT 8 - DRILLING APD

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17 ½"	0' – 1355'	13 3/8"	0' – 1355'	54.5#	LTC	K-55
12 ¼"	1355' – 5300'	9 5/8"	0' – 5300'	40#	BTC	N-80
8 ¾"	5300' – 12,200'	7 5/8"	0' – 12,200'	39#	FJ	HCP-110
6 1/2"	12,200'-14,200'	5"	12,200' – 14,200'	23.2#	FJ	HCP-110

Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13 3/8"	1.80	4.37	4.37
9 5/8"	1.22	2.26	2.26
7 5/8 "	2.17	2.55	2.23
5"	2.16	2.09	1.69

Mud Program

Depth	Mud Wt.	Visc	Fluid Loss	Type System
0' – 1355'	8.4 – 9.0	32 – 34	N/C	FW/Gel
1355' – 5300'	8.8 – 9.2	28 – 30	N/C	Brine
5300' – 12,200'	8.6 – 9.0	28	NC	Brine
12,200' – 14,000'	10.0 – 13	32 – 40	NC – 12cc	Brine

BOP DESIGN

The blow out prevention system will consist of a bag type (hydril) preventer, a double ram preventer stack, and a rotating head. Both the hydril and ram stack will be hydraulically operated. Both BOP systems will be rated at 5000psi. Prior to drilling out the 9 5/8" intermediate shoe, the ram stack will be nippled up with 4.5" pipe rams installed. Once the 7 5/8" casing is set, 3.5" pipe rams will be used in the BOP. **The hydril will be tested to 1000psi (high) and 250psi (low). Tests on the 5000psi BOP will be conducted per the BLM Drilling Operations Order #2.**

The ram system will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and hydril, other BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5000 psi WP

Cementing Program

13 3/8" Surface

Lead: 770 sacks (35:65) Poz (Fly Ash)·Premium Plus C Cement + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 5% bwow Sodium Chloride + 0 8% bwoc Sodium Metasilicate + 5% bwoc MPA-5 + 101.1% Fresh Water
Yield: 1.96 cf/sack. TOC @ surface.

Tail: 300 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Yield: 1.35 cf/sack.

9 5/8" Intermediate

Lead: 1255 sacks (50:50) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water
Yield: 2.24 cf/sack. TOC @ surface.

Tail. 300 sacks (60:40) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water
Yield: 1.37 cf/sack.

7 5/8" Intermediate

1 St Stage

Lead: 220 sacks (50:50) Poz + 0.2% bwoc Sodium Metasilicate + 1.4% bwoc FL-62 + 0.4% bwoc
Y **Yield**: 2.3 cf/sack.

Tail
Lead: 335 sacks (15:61:11) Poz (Fly Ash):Premium Plus C Cement + 1% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 0.4% bwoc FL-52A + 0.4% bwoc R-3 + 103.1% Fresh Water
Yield: 1.56 cf/sack.

DV TOOL at ~8000'

2Nd Stage

Lead: 205 sacks (35:65) Poz (Fly Ash):Class H Cement + 0.125 lbs/sack Cello Flake + 3 6% bwoc Bentonite + 0.4% bwoc FL-52A + 99.3% Fresh Water
Yield: 1.95 cf/sk

Tail: 150 sacks (60:40) Poz (Fly Ash)·Class H Cement + 1% bwow Sodium Chloride + 0.15% bwoc
+ 63.2% Fresh Water
Yield: 1.34 cf/sk

5" Liner: 420 sacks 50:50 Poz Cement + 0.75% bwoc EC-1 + 0.7% bwoc CD-32 + 1.2% bwoc
Yield: 1.27 cf/sk

TOC for All Strings:

Surface:	0'
1st Intermediate:	0'

2nd Intermediate:	4800'
Liner:	11,900'