

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Devon Energy Production Company, L.P. 20 North Broadway Oklahoma City, OK 731028260		² OGRID Number 6137
³ Property Code 36199	⁵ Property Name Gardner Draw Unit	⁴ API Number 30 - 015 - 22399
⁹ Proposed Pool 1 Wildcat; Wolfcamp		¹⁰ Proposed Pool 2

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
C	20	19S	21E		660	NORTH	1980	WEST	EDDY

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
A.	20	19S	21E		710	NORTH	660	EAST	EDDY

Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4368'
¹⁶ Multiple NO	¹⁷ Proposed Depth TVD 4300' TMD 6654'	¹⁸ Formation WOLFCAMP	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater > 1000'		Distance from nearest fresh water well < 1000'		Distance from nearest surface water > 1000'
Pit: Liner: Synthetic ☒ 12_mils thick Clay ☐ Pit Volume: _____ bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☐ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐				

21 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#	60'	6 cubic yd redi-	0
12 1/4"	8 5/8"	24#	1712'	1150	0
7 7/8"	Open hole		5500'	500	5900
6 1/8"	4 1/2"	11.6#	6655' MD	1005	1200

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.

Drill out the cement plugs at surface, 1776', 3285', & 4265' using a work-over rig. MIRU a drilling rig to kickoff out of a cement plug in the open hole and land lateral at a TVD of approximately 4300' and have a final BHL at 710' FNL & 710' FEL, Sec 20-19S-21E (total lateral section 2590'). Set a 4 1/2" 11.6# P-110 casing to TD. Cement 4 1/2" with 775 sacks 35:65 Poz Class C and tail with 230 sacks Class H. BOP to be used on the drilling rig is 5-M BOP.

**CEMENT TO COVER ALL
OIL, GAS AND WATER
BEARING ZONES**

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.

Signature:

Printed name: Norvella Adams

Title: Sr. Staff Engineering Technician

E-mail Address: norvella.adams@dv.com

Date: 121206

Phone: 405-552-8198

OIL CONSERVATION DIVISION

Approved by:

**BRYAN G. ARANT
DISTRICT II GEOLOGIST**

Title:

Approval Date: DEC 15 2006

Expiration Date: DEC 15 2007

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name WOLFCAMP	
⁴ Property Code	⁵ Property Name GARDNER DRAW UNIT				⁶ Well Number 1
⁷ OGRID No. 6317	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.				⁹ Elevation 4368

¹⁰ Surface Location									
UL or lot no. C	Section 20	Township 19S	Range 21E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1980	East/West line WEST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 20	Township 19S	Range 21E	Lot Idn	Feet from the 710	North/South line NORTH	Feet from the 660	East/West line EAST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.

	¹⁷ 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: <i>[Signature]</i> Date: 12/12/06 Norvella Adams Printed Name
	¹⁸ 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 supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

Well Name: Gardner Draw Unit #1

Field: Runyan Ranch Wolfcamp

Location: 1980 FWL 660 FNL 20-19S-21E

County: EDDY

State: NM

Elevation: 4379' KB

Spud Date: 2/19/72

PA Date 6/14/88

API#: 30-015-22399

Prepared by: Chris Singletary

Date: 11/17/06

Rev:

17-1/2" hole

13-3/8", 48# H-40 STC @ 60'

Cmt w/ 6 cubic yd redi-mix. TOC @ surface.

12-1/4" Hole

9-5/8", 24# K-55 @ 1712'

Cmt w/1150 sx. TOC @ surface.

7-7/8" Open hole.

*Welded on to 4-1/2" csg & cut at 5500'.

Marrow Perfs. 2 spt

6975-6996, sqz w/60sx

7018-7022'

7028-7038'

7106-7110'

7130-7133'

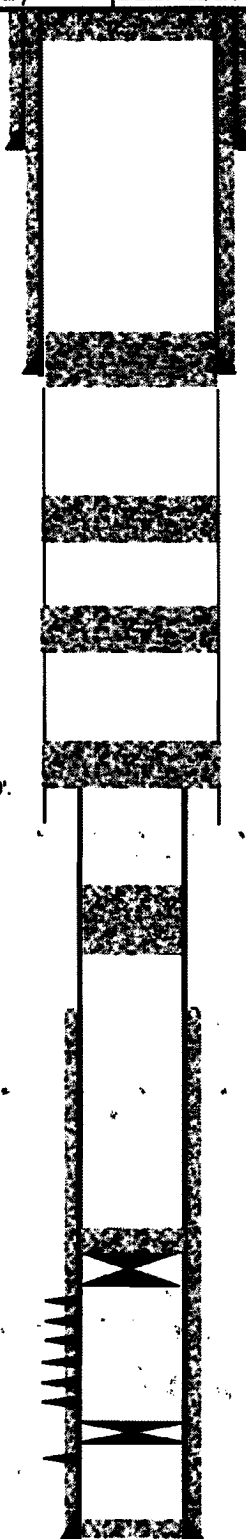
7167 - 7188

7857-7867'

7-7/8" Hole

4-1/2", 11.0# @ 7919'

Cmt'd w/500 Sx, TOC 5900' (Temp Svy)



10 sx surface plug

Hole loaded with 9.5 ppg mud.

Cement Plug - 1776', 50 sx. Tag top of plug @ 1630'.

Cement Plug - 3285', 25 sx.

Cement Plug - 4265', 25 sx.

Cement Plug - 5563', 35 sx. Tag plug @ 5450'.

Cement Plug - 5950', 25 sx.

CIBP @ 7000', 5 sx cmt on top of CIBP.

CIBP @ 7800', 24' cmt on top of CIBP.

TD 7920'



Planned Wellpath Report

Plan #1
Page 1 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#1_SHL
Area	Eddy County, NM	Well	Gardner Draw #1
Field	Runyan Ranch Wolfcamp	Wellbore	#1_PWB
Facility	Gardner Draw		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001)	Software System	WellArchitect™ 1.2
North Reference	True	User	Gomeoscr
Scale	1.00024	Report Generated	11/28/06 at 09:01:00
Wellbore last revised	11/28/06	Database/Source file	WellArchitectDB/#1_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [meters]	Northing [meters]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	0.00	0.00	30 59 18.404N	106 03 38.987W
Facility Reference Pt			0.00	0.00	30 59 18.404N	106 03 38.987W
Field Reference Pt			0.00	0.00	30 59 18.404N	106 03 38.987W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on #1_SHL (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Slot	Rig on #1_SHL (RT) to Mean Sea Level	0.00 feet
Vertical Reference Pt	Rig on #1_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #1_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	91.11°



Planned Wellpath Report

Plan #1
Page 2 of 3



REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#1_SHL
Area	Eddy County, NM	Well	Gardner Draw #1
Field	Runyan Ranch Wolfcamp	Wellbore	#1_PWB
Facility	Gardner Draw		

WELLPATH DATA (36 stations) † = interpolated/extrapolated station

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments
0.00	0.000	91.106	0.00	0.00	0.00	0.00	0.00	Tie On
3500.00†	0.000	0.000	3500.00	0.00	0.00	0.00	0.00	
3600.00†	0.000	0.000	3600.00	0.00	0.00	0.00	0.00	
3700.00†	0.000	0.000	3700.00	0.00	0.00	0.00	0.00	
3800.00†	5.205	91.106	3799.93	2.27	-0.04	2.27	10.41	
3900.00†	15.615	91.106	3898.15	20.31	-0.39	20.31	10.41	
4000.00†	26.025	91.106	3991.49	55.81	-1.08	55.80	10.41	
4100.00†	36.435	91.106	4076.88	107.58	-2.08	107.56	10.41	
4300.00†	57.255	91.106	4212.93	252.68	-4.88	252.64	10.41	
4400.00†	67.665	91.106	4259.10	341.23	-6.59	341.17	10.41	
4500.00†	78.075	91.106	4288.51	436.66	-8.43	436.58	10.41	
4600.00†	88.485	91.106	4300.20	535.84	-10.34	535.74	10.41	
4700.00†	90.011	91.106	4300.38	635.84	-12.27	635.72	0.00	
4800.00†	90.011	91.106	4300.36	735.84	-14.20	735.70	0.00	
4900.00†	90.011	91.106	4300.34	835.84	-16.13	835.68	0.00	
5000.00†	90.011	91.106	4300.32	935.84	-18.06	935.66	0.00	
5200.00†	90.011	91.106	4300.28	1135.84	-21.92	1135.63	0.00	
5300.00†	90.011	91.106	4300.26	1235.84	-23.85	1235.61	0.00	
5400.00†	90.011	91.106	4300.24	1335.84	-25.78	1335.59	0.00	
5500.00†	90.011	91.106	4300.22	1435.84	-27.71	1435.57	0.00	
5700.00†	90.011	91.106	4300.18	1635.84	-31.57	1635.53	0.00	
5800.00†	90.011	91.106	4300.16	1735.84	-33.50	1735.52	0.00	
5900.00†	90.011	91.106	4300.14	1835.84	-35.43	1835.50	0.00	
6000.00†	90.011	91.106	4300.13	1935.84	-37.36	1935.48	0.00	
6200.00†	90.011	91.106	4300.09	2135.84	-41.22	2135.44	0.00	
6300.00†	90.011	91.106	4300.07	2235.84	-43.15	2235.42	0.00	
6400.00†	90.011	91.106	4300.05	2335.84	-45.09	2335.40	0.00	
6500.00†	90.011	91.106	4300.03	2435.84	-47.02	2435.38	0.00	
6654.64	90.011	91.106	4300.00†	2590.48	-50.00	2590.00	0.00	#1 PBHL

HOLE & CASING SECTIONS Ref Wellbore: #1_PWB Ref Wellpath: Plan #1

String/Diameter	Start MD [feet]	End MD [feet]	Interval [feet]	Start TVD [feet]	End TVD [feet]	Start N/S [feet]	Start E/W [feet]	End N/S [feet]	End E/W [feet]
6.125in Open Hole	0.00	6654.64	6654.64	0.00	4300.00	0.00	0.00	-50.00	2590.00



Planned Wellpath Report

Plan #1
Page 3 of 3



INTEQ

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Operator	Devon Energy	Slot	#1_SHL
Area	Eddy County, NM	Well	Gardner Draw #1
Field	Runyan Ranch Wolfcamp	Wellbore	#1_PWB
Facility	Gardner Draw		

TARGETS

Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [meters]	Grid North [meters]	Latitude [°]	Longitude [°]	Shape
1) #1 PBHL	6654.64	4300.00	-50.00	2590.00	789.29	-27.50	30 59 17.908N	106 03 09.234W	point

SURVEY PROGRAM Ref Wellbore: #1_PWB Ref Wellpath: Plan #1

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6654.64	NaviTrak (Standard)		#1_PWB

devon

Devon Energy

Location: Eddy County, NM
Field: Runyan Ranch Wellcamp
Facility: Gardner Draw

Well: #1 SHL
Well: Gardner Draw #1
Well: #1 PWS

BAKER
HUGHES
INTEQ

Well Profile Data

Design Comment	MD (ft)	Inc. (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	91.108	0.00	0.00	0.00	0.00	0.00
KOP	3750.00	0.000	91.108	3750.00	0.00	0.00	0.00	0.00
EOC	4614.66	90.011	91.108	4300.39	-10.63	550.39	1.041	550.50
#1 PBHL	6654.64	90.011	91.108	4300.00	-50.00	2590.00	0.00	2590.48

Plot reference wellpath is Plan #1

True vertical depths are referenced to Rig on #1_SHL (RT)	Grid System: NAD83 / T.M. New Mexico State Planes, Eastern Zone (3001)
Measured depths are referenced to Rig on #1_SHL (RT)	North Reference: True North
Rig on #1_SHL (RT) to Mean Sea Level: 0 feet	Scale: True distance
Mean Sea Level to Mud line (Facility - Gardner Draw): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gomescon 11/28/2006

Scale: 1 inch = 500 ft

Easting (ft)



#1_SHL

660' FNL

#1 PBHL

Scale: 1 inch = 500 ft

True Vertical Depth (ft)

KOP: 0.00° Inc, 3750.00° MD, 3750.00° TVD, 0.00° VS

10.41° MDOR

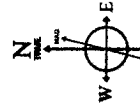
EOC: 90.01° Inc, 4614.66° MD, 4300.39° TVD, 550.50° VS

#1 PBHL: 90.01° Inc, 6654.64° MD, 4300.00° TVD, 2590.48° VS

Vertical Section (ft)

Scale: 1 inch = 500 ft

Azimuth #1.11° with reference 0.00° N, 0.00° E from wellhead



MOG (1 inch = 1000 ft), Dec. 08.00°, Prod. 4000.00° NT
Magnetic North is 9.00 degrees East of True North (at 11/28/06)

To correct from True Magnetic True North, use the following diagram

Northing (ft)

660' FEL

