

District II
1301 W Grand Ave, Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720

State of New Mexico
Energy, Minerals and Natural Resources

Form C-101
Permit 61640



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

SEP 28 2007
OCD-ARTESIA

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

1 Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 20 N Broadway Oklahoma City, OK 73102		2 OGRID Number 6137
		3 API Number 30-015-35836
4 Property Code 35964	5 Property Name FAIRCHILD	6 Well No 001

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	11	18S	26E	A	430	N	530	E	EDDY

8. Pool Information

RED LAKE; GLORIETA-YESO	51120
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Additional Well Information

9 Work Type New Well	10 Well Type OIL	11 Cable/Rotary	12 Lease Type Private	13 Ground Level Elevation 3297
14 Multiple N	15 Proposed Depth 7712	16 Formation Yeso Formation	17 Contractor	18 Spud Date 2/1/2008
Depth to Ground water 50		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit ☐ Liner Synthetic ☒ 12 mils thick Clay ☐ Pit Volume 20000 bbls Drilling Method Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	350	340	0
Intl	12.25	9.625	40	1100	392	0
Prod	8.75	7	26	3835	865	0
Linerl	6.25	4.5	11.6	7712	645	3250

Casing/Cement Program: Additional Comments

Cement: 13 3/8" csg with 140 sx 35 65 Poz C + 2% CaCl₂ and tail w/ 200 sx Cl C + 2% CaCl₂, 9 5/8" with 192 sx 35 65 Poz C + 2% CaCl₂ and tail with 200 sx Cl C + 2% CaCl₂, Whipstock plug at 3500' cmt with 275 sx Cl H + 5% NaCl, 7" csg with 590 sx 60:40 Poz C + 5% NaCl; 4 1/2" csg with 645 sx 60:40 Poz C + 5% NaCl Mud 0-350' Fresh, 8.5-8.7, 3-5 visc, NC water loss; 350-1100' fresh, 8 4-8 6, 1 visc, NC water loss; 1100-3300' brine, 8.5-8 6, 1 visc, NC water loss; 3300-3500' brine, 8 5-8.6, 2-3 visc, 15-20 water loss; 3022-3835' brine, 8.5-8.7, 2-3 visc, 10-12 water loss; 3835-7712' brine, 8.5-8 7, 2-3 visc, 10-12 water loss.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
Double Ram	5000	5000	
Hydril	3000	3000	

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 ☐.

OIL CONSERVATION DIVISION

Approved By

BRYAN G. ARRANT
DISTRICT II GEOLOGIST

OCT 01 2007

OCT 01 2008

DISTRICT I
1025 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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30 015.35836	Pool Code 51120	Pool Name Yeso
Property Code 35964	Property Name FAIRCHILD	Well Number 1
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3297'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	18 S	26 E		430	NORTH	530	EAST	EDDY

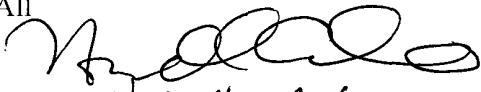
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	18 S	26 E		430	SOUTH	430	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

SURFACE LOCATION Lat - N32°34'39.6" Lon - W104°29'41.3" (NAD-83) ENTRY POINT Lat - N32°34'34.9" Lon - W104°29'42.5" (NAD-83) BOTTOM HOLE Lat - N32°33'55.9" Lon - W104°29'41.3" (NAD-83)	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 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. <i>[Signature]</i> 8/2/06 Signature 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 supervision and that the same is true and correct to the best of my belief. APPROVED TO 3/10/06 Date Surveyed Signature of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS



Printed Name: <u>Norvella Adams</u>	Title:	
Title: <u>Sr. Staff Engineering Tech</u>	Approved Date:	Expiration Date:
Email Address: <u>norvella.adams@dvn.com</u>		
Date: <u>9/22/07</u>	Phone: <u>405-552-8198</u>	

Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: FAIRCHILD #001

API:

Created By	Comment	Comment Date
ADAMSN	BOP. The 3K-annular BOP will be nipped up on the 13 3/8" casing and tested to 1000 psi High and 250 psi Low with the Rig Pump The 5 K double BOP will be nipped up on the 9 5/8" and tested per Onshore Order #2.	9/27/2007

Permit Comments

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: FAIRCHILD #001

API: 30-015-35112

Created By	Comment	Comment Date
ADAMSN	BOP: The 3K annular BOP will be nipped up on the 13 3/8" casing and tested to 1000 psi High and 250 psi Low with the Rig Pump. The 5K double BOP will be nipped up on the 9 5/8" and tested per Onshore Order #2. An H2S plan will be sent under separate cover.	8/23/2006

Permit Conditions of Approval

Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: FAIRCHILD #001

API: 30-015-35112

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Will require a directional survey with the C-104
BArrant	Please notify OCD time of spud and time to witness the cementing to surface of all (3) casing strings.



Planned Wellpath Report

Plan #1
Page 1 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy Production Co.	Slot	#1_SHL
Area	Eddy County, NM	Well	Fairchild #1
Field	Section 11 T18S R26E	Wellbore	Horizontal Plan Proposal
Facility	Fairchild		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	Gomeoscr
Scale	0.999912	Report Generated	08/14/06 at 14:05:27
Wellbore last revised	08/14/06	Database/Source file	WellArchitectDB/Horiz

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	491499.38	573923.57	32 34 39.599N	104 29 42.469W
Facility Reference Pt			491499.38	573923.57	32 34 39.599N	104 29 42.469W
Field Reference Pt			491599.38	573923.57	32 34 39.600N	104 29 41.300W

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	178.79°

30-C15-35112





Planned Wellpath Report

Plan #1
Page 2 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy Production Co.	Slot	#1_SHL
Area	Eddy County, NM	Well	Fairchild #1
Field	Section 11 T18S R26E	Wellbore	Horizontal Plan Proposal
Facility	Fairchild		

WELLPATH DATA (82 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	180.410	0.00	0.00	0.00	0.00	0.00	Tie On
100.00†	0.000	0.000	100.00	0.00	0.00	0.00	0.00	
200.00†	0.000	0.000	200.00	0.00	0.00	0.00	0.00	
300.00†	0.000	0.000	300.00	0.00	0.00	0.00	0.00	
400.00†	0.000	0.000	400.00	0.00	0.00	0.00	0.00	
500.00†	0.000	0.000	500.00	0.00	0.00	0.00	0.00	
600.00†	0.000	0.000	600.00	0.00	0.00	0.00	0.00	
700.00†	0.000	0.000	700.00	0.00	0.00	0.00	0.00	
800.00†	0.000	0.000	800.00	0.00	0.00	0.00	0.00	
900.00†	0.000	0.000	900.00	0.00	0.00	0.00	0.00	
1000.00†	0.000	0.000	1000.00	0.00	0.00	0.00	0.00	
1100.00†	0.000	0.000	1100.00	0.00	0.00	0.00	0.00	
1200.00†	0.000	0.000	1200.00	0.00	0.00	0.00	0.00	
1300.00†	0.000	0.000	1300.00	0.00	0.00	0.00	0.00	
1400.00†	0.000	0.000	1400.00	0.00	0.00	0.00	0.00	
1500.00†	0.000	0.000	1500.00	0.00	0.00	0.00	0.00	
1600.00†	0.000	0.000	1600.00	0.00	0.00	0.00	0.00	
1700.00†	0.000	0.000	1700.00	0.00	0.00	0.00	0.00	
1800.00†	0.000	0.000	1800.00	0.00	0.00	0.00	0.00	
1900.00†	0.000	0.000	1900.00	0.00	0.00	0.00	0.00	
2000.00†	0.000	0.000	2000.00	0.00	0.00	0.00	0.00	
2100.00†	0.000	0.000	2100.00	0.00	0.00	0.00	0.00	
2200.00†	0.000	0.000	2200.00	0.00	0.00	0.00	0.00	
2300.00†	0.000	0.000	2300.00	0.00	0.00	0.00	0.00	
2400.00†	0.000	0.000	2400.00	0.00	0.00	0.00	0.00	
2500.00†	0.000	0.000	2500.00	0.00	0.00	0.00	0.00	
2600.00†	0.000	0.000	2600.00	0.00	0.00	0.00	0.00	
2700.00†	0.000	0.000	2700.00	0.00	0.00	0.00	0.00	
2800.00†	0.000	0.000	2800.00	0.00	0.00	0.00	0.00	
2900.00†	0.000	0.000	2900.00	0.00	0.00	0.00	0.00	
3000.00†	0.000	0.000	3000.00	0.00	0.00	0.00	0.00	
3020.00	0.000	180.410	3020.00	0.00	0.00	0.00	0.00	KOP
3100.00†	9.549	180.410	3099.63	6.65	-6.65	-0.05	11.94	
3200.00†	21.486	180.410	3195.81	33.34	-33.36	-0.24	11.94	
3300.00†	33.423	180.410	3284.39	79.35	-79.37	-0.57	11.94	
3400.00†	45.359	180.410	3361.53	142.67	-142.72	-1.02	11.94	
3500.00†	57.296	180.410	3423.91	220.57	-220.65	-1.58	11.94	
3600.00†	69.232	180.410	3468.81	309.68	-309.79	-2.22	11.94	
3700.00†	81.169	180.410	3494.31	406.15	-406.30	-2.91	11.94	
3773.98	90.000	180.410	3500.00	479.81	-479.99	-3.43	11.94	EOC



Planned Wellpath Report

Plan #1
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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy Production Co.	Slot	#1_SHL
Area	Eddy County, NM	Well	Fairchild #1
Field	Section 11 T18S R26E	Wellbore	Horizontal Plan Proposal
Facility	Fairchild		

WELLPATH DATA (82 stations) † = interpolated/extrapolated station

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments
3800.00†	90.000	179.629	3500.00	505.82	-506.01	-3.44	3.00	
3835.05	90.000	178.578	3500.00	540.87	-541.05	-2.90	3.00	EOB
3900.00†	90.000	178.578	3500.00	605.82	-605.98	-1.28	0.00	
4000.00†	90.000	178.578	3500.00	705.82	-705.95	1.20	0.00	
4100.00†	90.000	178.578	3500.00	805.82	-805.92	3.68	0.00	
4200.00†	90.000	178.578	3500.00	905.82	-905.89	6.16	0.00	
4300.00†	90.000	178.578	3500.00	1005.82	-1005.86	8.64	0.00	
4400.00†	90.000	178.578	3500.00	1105.81	-1105.83	11.12	0.00	
4500.00†	90.000	178.578	3500.00	1205.81	-1205.80	13.61	0.00	
4600.00†	90.000	178.578	3500.00	1305.81	-1305.76	16.09	0.00	
4700.00†	90.000	178.578	3500.00	1405.81	-1405.73	18.57	0.00	
4800.00†	90.000	178.578	3500.00	1505.81	-1505.70	21.05	0.00	
4900.00†	90.000	178.578	3500.00	1605.81	-1605.67	23.53	0.00	
5000.00†	90.000	178.578	3500.00	1705.81	-1705.64	26.01	0.00	
5100.00†	90.000	178.578	3500.00	1805.81	-1805.61	28.49	0.00	
5200.00†	90.000	178.578	3500.00	1905.81	-1905.58	30.98	0.00	
5300.00†	90.000	178.578	3500.00	2005.81	-2005.55	33.46	0.00	
5400.00†	90.000	178.578	3500.00	2105.81	-2105.52	35.94	0.00	
5500.00†	90.000	178.578	3500.00	2205.81	-2205.49	38.42	0.00	
5600.00†	90.000	178.578	3500.00	2305.81	-2305.46	40.90	0.00	
5700.00†	90.000	178.578	3500.00	2405.81	-2405.43	43.38	0.00	
5800.00†	90.000	178.578	3500.00	2505.81	-2505.40	45.86	0.00	
5900.00†	90.000	178.578	3500.00	2605.80	-2605.36	48.35	0.00	
6000.00†	90.000	178.578	3500.00	2705.80	-2705.33	50.83	0.00	
6100.00†	90.000	178.578	3500.00	2805.80	-2805.30	53.31	0.00	
6200.00†	90.000	178.578	3500.00	2905.80	-2905.27	55.79	0.00	
6300.00†	90.000	178.578	3500.00	3005.80	-3005.24	58.27	0.00	
6400.00†	90.000	178.578	3500.00	3105.80	-3105.21	60.75	0.00	
6500.00†	90.000	178.578	3500.00	3205.80	-3205.18	63.23	0.00	
6600.00†	90.000	178.578	3500.00	3305.80	-3305.15	65.72	0.00	
6700.00†	90.000	178.578	3500.00	3405.80	-3405.12	68.20	0.00	
6800.00†	90.000	178.578	3500.00	3505.80	-3505.09	70.68	0.00	
6900.00†	90.000	178.578	3500.00	3605.80	-3605.06	73.16	0.00	
7000.00†	90.000	178.578	3500.00	3705.80	-3705.03	75.64	0.00	
7100.00†	90.000	178.578	3500.00	3805.80	-3805.00	78.12	0.00	
7200.00†	90.000	178.578	3500.00	3905.80	-3904.96	80.61	0.00	
7300.00†	90.000	178.578	3500.00	4005.79	-4004.93	83.09	0.00	
7400.00†	90.000	178.578	3500.00	4105.79	-4104.90	85.57	0.00	
7500.00†	90.000	178.578	3500.00	4205.79	-4204.87	88.05	0.00	
7600.00†	90.000	178.578	3500.00	4305.79	-4304.84	90.53	0.00	



Planned Wellpath Report

Plan #1
Page 4 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy Production Co.	Slot	#1_SHL
Area	Eddy County, NM	Well	Fairchild #1
Field	Section 11 T18S R26E	Wellbore	Horizontal Plan Proposal
Facility	Fairchild		

WELLPATH DATA (82 stations) † = interpolated/extrapolated station								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments
7700.00†	90.000	178.578	3500.00	4405.79	-4404.81	93.01	0.00	
7711.74	90.000	178.578	3500.00†	4417.53	-4416.55	93.30	0.00	#1 PBHL

TARGETS									
Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
1) #1 PBHL	7711.74	3500.00	-4416.55	93.30	491592.68	569507.42	32 33 55.900N	104 29 41.300W	point
Entry Point (#1)		3500.00	-474.85	-3.40	491495.98	573448.76	32 34 34.900N	104 29 42.500W	point



Devon Energy Production Co.

Location Eddy County, NM
Field Section 11 T18S R26E
Facility Fairchild

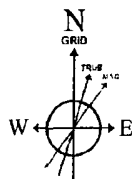
Slot: #1_SHL
Well Fairchild#1
Wellbore Horizontal Plan Proposal



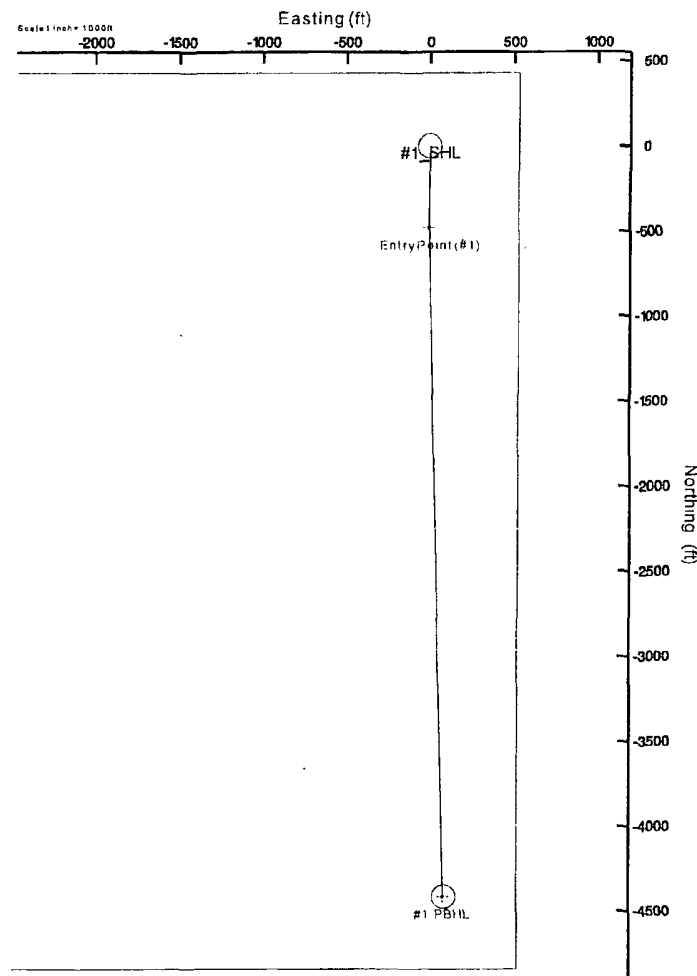
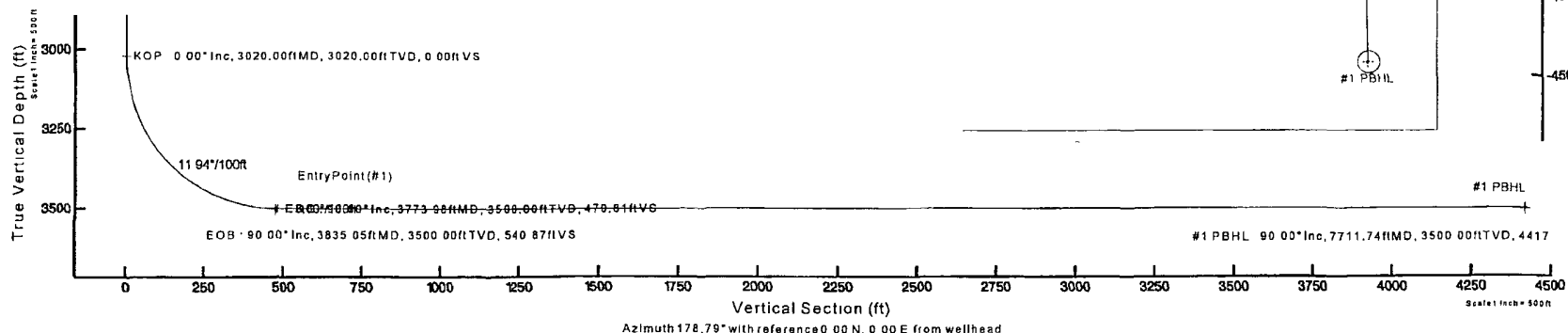
LINES/HARDLINES ARE ESTIMATE ONLY AND ARE SUBJECT TO CUSTOMER APPROVAL

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	180.410	0.00	0.00	0.00	0.00	0.00
KOP	3020.00	0.000	180.410	3020.00	0.00	0.00	0.00	0.00
EOB	3773.98	90.000	180.410	3500.00	-479.99	-3.43	11.94	479.81
EOB	3835.05	90.000	178.578	3500.00	-541.05	-2.90	3.00	540.87
#1 PBHL	7711.74	90.000	178.578	3500.00	-4416.55	93.30	0.00	4417.53

Plot Reference Well Path Plan #1	
True Vertical Depth Reference Rigon #1_SHL (RT)	Grid System NAD83 / TM New Mexico State Plane, Fackin Zone (1001) US feet
Measured Depth Reference Rigon #1_SHL (RT)	North Reference Grid North
Rigon #1_SHL (RT) to Mean Sea Level 0 feet	Scale True distance
Mean Sea Level Mud line (Facility - Fairchild) 0 feet	Depth are in feet
Coordinates are in feet reference to Slot	Created by gomeosion 8/14/2006



BGGM (1945.0 to 2008.0) Dip: 60.49° Field: 49274.8 n1
Magnetic North is 8.63 degrees East of True North (at 08/14/06)
Grid North is 0.08 degrees West of True North
To correct azimuth from True to Grid add 0.09 degrees
To correct azimuth from Magnetic to Grid add 8.72 degrees



DISTRICT I

1026 N. French Dr., Hobbs, NM 88240

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1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1829 E. St. Francis Dr., Santa Fe, NM 87508

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 12, 2005

Submit to Appropriate District Office

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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35112	Pool Code S1120	Pool Name Red Lake, Gloria-ya
Property Code	Property Name FAIRCHILD	Well Number 1
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3297'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	18 S	26 E		430	NORTH	530	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
P	11	18 S	26 E		430	SOUTH	430	EAST	EDDY
Dedicated Acres 160	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

SURFACE LOCATION Lat - N32°34'39.6" Lon - W104°29'41.3" (NAD-83) ENTRY POINT Lat - N32°34'34.9" Lon - W104°29'42.5" (NAD-83)		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 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>Norvella Adams</i> Date: 8/23/06 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 supervision and that the same is true and correct to the best of my belief. Date Surveyed: 8/23/06 Signature: <i>Gary L. Jones</i> Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
BOTTOM HOLE Lat - N32°33'55.9" Lon - W104°29'41.3" (NAD-83)		