

DATE IN <u>3/5/07</u>	SUSPENSE	ENGINEER <u>RE</u>	LOGGED IN <u>3/5/07</u>	TYPE <u>SD</u>	APP NO. <u>PRE 070459683</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
[PC-Pool Commingling] **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
[WFX-Waterflood Expansion] **[PMX-Pressure Maintenance Expansion]**
[SWD-Salt Water Disposal] **[IPI-Injection Pressure Increase]**
[EOR-Qualified Enhanced Oil Recovery Certification] **[PPR-Positive Production Response]**

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☒ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ocean Monds-Dry Ocean Monds-Dry Attorney 3-5-07
 Print or Type Name Signature Title Date
omondsdry@hollandhart.com
 e-mail Address

2007 MAR 5 PM 2:46



March 5, 2007

HAND-DELIVERED

Mark E. Fesmire, P. E.
Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Application of EOG Resources, Inc. for Administrative Approval of the Simultaneous Dedication of the E/2 of Section 25, Township 16 South, Range 24 East, N.M.P.M., Eddy County, New Mexico to its proposed New 25 Federal Well No. 2H and the existing New 25 Federal Well No. 1H.

Dear Mr. Fesmire:

EOG Resources, Inc. is the operator of a standard 320-acre spacing unit in the Undesignated Cottonwood Creek-Wolfcamp West Gas Pool (**Pool Code 75260**) comprised of the E/2 of Section 25, Township 16 South, Range 24 East, N.M.P.M., Eddy County, New Mexico. This spacing unit is dedicated to EOG's New 25 Federal Well No. 1H which has been horizontally drilled and produces from the Wolfcamp formation.

EOG seeks administrative approval of the simultaneous dedication of this standard 320-acre gas spacing unit to the following two horizontal gas wells:

- A. the existing **New 25 Federal Well No. 1H (API No. 30-015-34842)** horizontally drilled from a surface location 660 feet from the South line and 760 feet from the East line to an end point or bottom hole location 660 feet from the North line and 760 feet from the East line of said Section 25; and
- B. the proposed **New 25 Federal Well No. 2H (API No. 30-015 -34895)** to be horizontally drilled from a surface location 660 feet from the South line and 1880 feet from the East line to a proposed end point or bottomhole location 660 feet from the North line and 1880 feet from the East line of said Section 25.

HOLLAND & HART^{LLP}



The wellbore directional survey of the New 25 Federal Well No. 1H shows the path of the wellbore within the Wolfcamp formation to be standard pursuant to Division Rules 104.C (2) (a) and 111.A (7). EOG now intends to horizontally drill and complete its proposed New 25 Federal Well No. 2H to be drilled to the targeted subsurface end-point or bottomhole location, 660 feet from the North line and 1880 feet from the East line (Unit B) of Section 25. EOG proposes to drill this well in compliance with the set-back requirements of Division Rules 104.C(2) 9b) and 111.A(7) for deep gas wells in southeast New Mexico.

Attached hereto as **Exhibit A** is a copy of Division Form C-102 for this well that shows the proposed surface and bottomhole location of the well. **Exhibit B** is EOG's Directional Survey for the 1H Well that confirms the projected wellbore deviation.

Exhibit C is a map of offset operators around the spacing unit in Section 25. **Exhibit D** is a list of affected parties as defined by Division Rules. As required by Rule 1210, a copy of this application (with attachments) has been sent to those affected parties in accordance with Rule 1207(A)(5) and they have been advised that if they have an objection to this application it must be filed in writing with the Division's Santa Fe office within twenty days from the date this notice was sent.

The simultaneous dedication of the E/2 of said Section 25 to the New 25 Federal Well Nos. 1H and 2H will afford EOG the opportunity to efficiently produce the Wolfcamp formation under this spacing unit. EOG's proposed simultaneous dedication of these wells does not exceed the number of wells allowed by Division Rule for this spacing unit.

Your attention to this application is appreciated.

Sincerely,

Ocean Munds-Dry
Attorney for EOG Resources, Inc.

Enclosures



March 5, 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED**AFFECTED INTEREST OWNERS**

Re: Application of EOG Resources, Inc., for simultaneous dedication,
Eddy County, New Mexico.

Ladies and Gentlemen:

This letter is to advise you that EOG Resources, Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking the simultaneous dedication of the proposed New 25 Federal Well No. 2H to be drilled from a surface location 660 feet from the South line and 1880 feet from the East line and a bottomhole location 660 feet from the North line and 1880 feet from the East line and the existing New 25 Federal Well No. 1H drilled from a surface location 660 feet from the South line and 760 feet from the East line and a bottomhole location 660 feet from the North line and 760 feet from the East line to the E/2 in Section 25, Township 16 South, Range 24 East, NMPM, Eddy County, New Mexico.

As an owner of an interest that may be affected by the proposed well, you may object to this application. Objections must be filed in writing within twenty days from this date at the Division's Santa Fe office that is located at 1220 South Saint Francis Drive, Santa Fe, New Mexico. 87505. If no objection is received within this twenty-day period, this application for an unorthodox well location may be approved.

Very truly yours,

Ocean Munds-Dry
Ocean Munds-Dry
ATTORNEY FOR EOG RESOURCES, INC.

Enclosures

Exhibit D
Application of EOG Resources, Inc.
Simultaneous Dedication of
E/2 of Section 25, Township 16 South, Range 24 East, NMPM
Eddy County, New Mexico

Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210

LCX Energy, LLC
101 N. Marenfeld Suite 200
Midland, Texas 79701

Capstone Oil & Gas Company
P.O. Box 10187
Midland, Texas 79702

CMW Interests, Inc.
24 Smith Road, Suite 405
Midland, Texas 79705

Elger Exploration, Inc.
P.O. Box 2623
Midland, Texas 79702-2623

Featherstone Development Corporation
1801 W. 2nd
Roswell, New Mexico 88201

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 & 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

API Number 30-015-34895	Pool Code 75260	Pool Name Undes Cottonwood Creek; Wofcamp West
Property Code	Property Name NEW 25 FEDERAL	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3663'

Surface Location

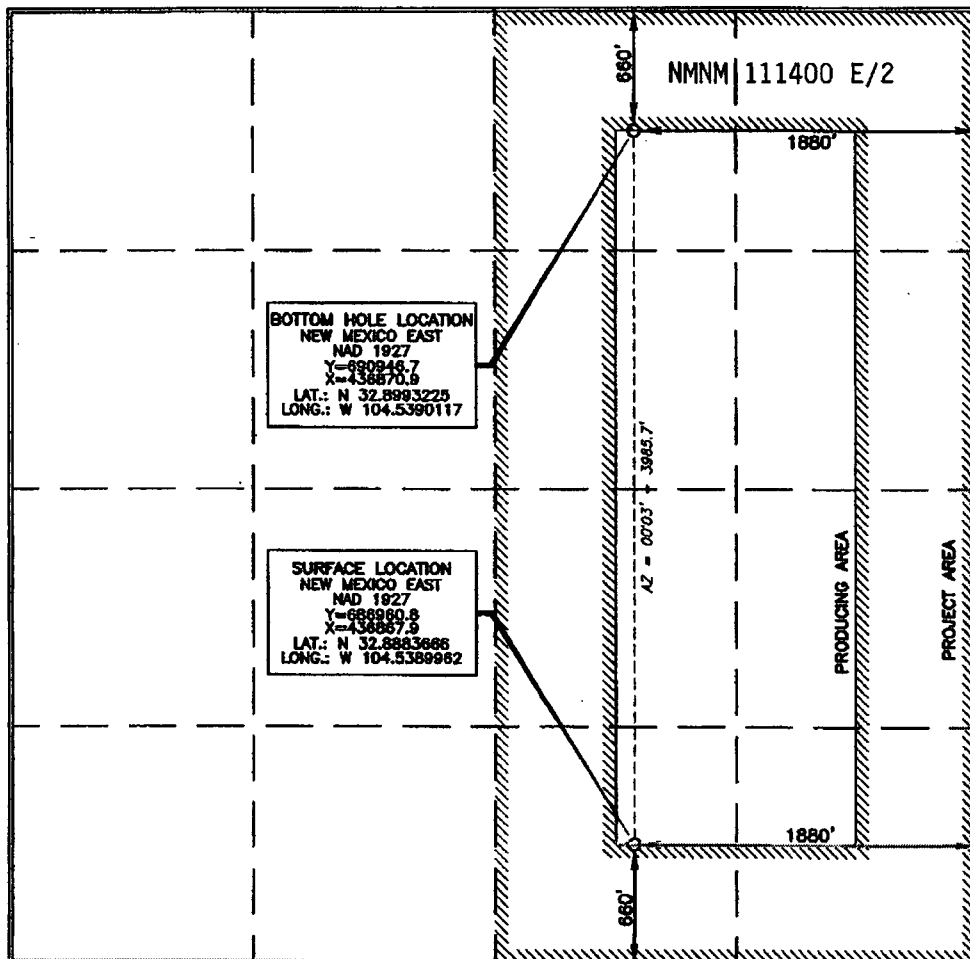
UL or lot no.	Section	Township	Range	Lot km	Feet from the	North/South line	Feet from the	East/West line	County
0	25	16 SOUTH	24 EAST, N.M.P.M.		660	SOUTH	1880	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot km	Feet from the	North/South line	Feet from the	East/West line	County
B	25	16 SOUTH	24 EAST, N.M.P.M.		660	NORTH	1880	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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.

Donny G. Glanton 4/17/06
Signature Date

Donny G. Glanton
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.

15079
FEBRUARY 16, 2006
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Abel
Certificate Number 15079

WOF 060216WL-b (COO)

EXHIBIT A

District I
1825 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 & 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

API Number 30-D15-34842	Pool Code 75260	Pool Name Undes Cottonwood Creek; Wolfcamp, West
Property Code	Property Name NEW 25 FEDERAL	Well Number 1H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3647'

Surface Location

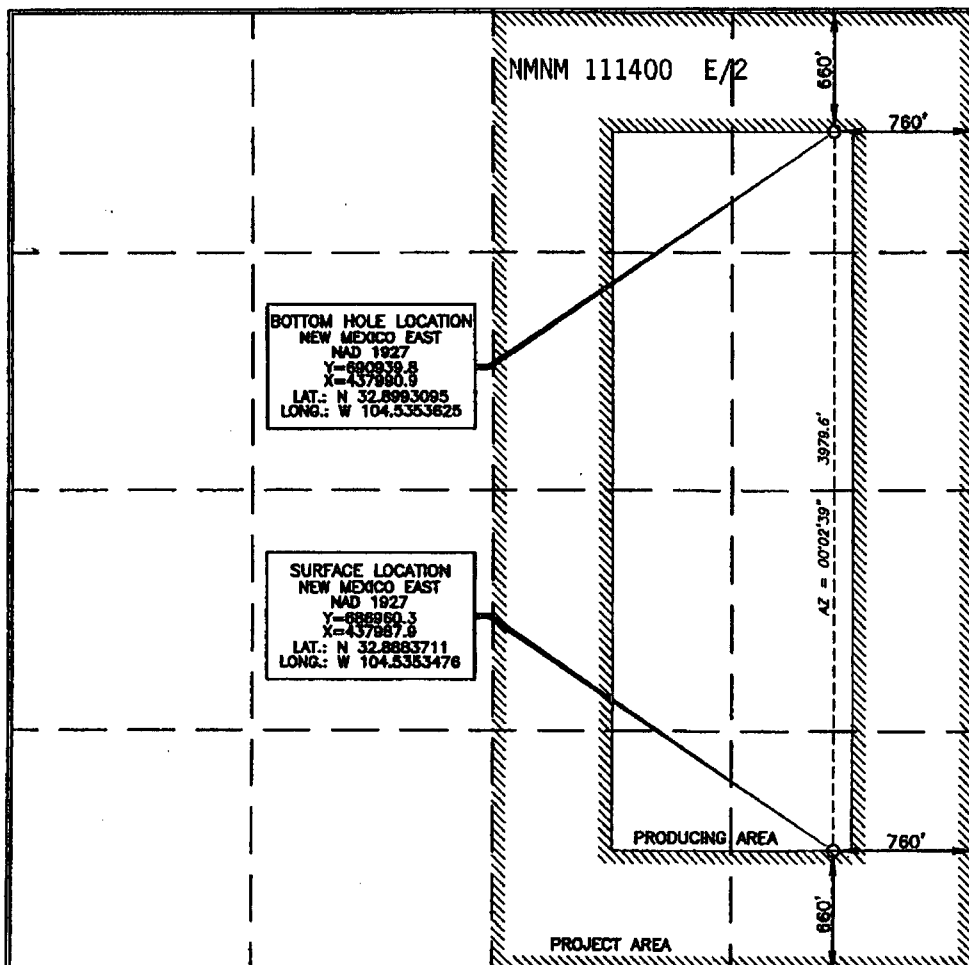
UL or lot no.	Section	Township	Range	Lot kdn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	16-SOUTH	24 EAST, N.M.P.M.		660	SOUTH	760	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot kdn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	16 SOUTH	24 EAST, N.M.P.M.		660	NORTH	760	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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.

Donny G. Glanton 3/9/06
Signature Date

Donny G. Glanton
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.

NEW MEXICO
FEBRUARY 15 2006
Date of Survey
Signature and Seal of Professional Surveyor
Certificate Number 15079

WOF 060216WL-a (COC)

KEEPER GYRO SURVEY

Directional Survey Report

Well Number	:	NEW 25 FED #1H
Well Location	:	EDDY COUNTY, NEW MEXICO
Job Number	:	32K0606502
Location Latitude	:	32.890
Survey Date	:	23-JUN-2006
S.D.C. Personnel	:	ANGEL GUEBARA
Length Units	:	Feet
North Reference	:	GRID North
Grid Correction	:	0.11 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	0.04
Calculation Method	:	Minimum Curvature

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° S C I E N T I F I C D R I L L I N G C O N T R O L S °

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Page 1

EXHIBIT B

NEW 25 FED #1H GYRO.txt

(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100
0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
100.00	100.00	0.49	0.57	7.88	0.49	0.07	0.57
200.00	200.00	0.90	0.24	247.72	0.90	-0.06	0.72
300.00	299.99	0.65	0.40	240.60	0.65	-0.56	0.16
400.00	399.99	0.33	0.46	248.35	0.33	-1.24	0.08
500.00	499.99	-0.11	0.53	230.80	-0.11	-1.97	0.17
600.00	599.98	-0.92	0.72	214.99	-0.92	-2.69	0.25
700.00	699.97	-1.96	0.67	205.57	-1.96	-3.30	0.12
800.00	799.97	-3.09	0.69	186.71	-3.09	-3.62	0.22
900.00	899.96	-4.40	0.83	171.72	-4.40	-3.59	0.24
1000.00	999.95	-5.72	0.71	168.19	-5.72	-3.36	0.13
1100.00	1099.94	-6.78	0.52	175.52	-6.78	-3.20	0.20
1200.00	1199.94	-7.64	0.52	155.28	-7.64	-2.97	0.18
1300.00	1299.93	-8.45	0.51	154.30	-8.45	-2.59	0.02
1400.00	1399.93	-9.06	0.24	187.96	-9.06	-2.43	0.33
1500.00	1499.93	-9.62	0.40	184.92	-9.61	-2.49	0.16
1600.00	1599.93	-10.20	0.28	167.15	-10.20	-2.46	0.16
1700.00	1699.93	-10.56	0.22	230.05	-10.56	-2.56	0.26
1800.00	1799.93	-10.96	0.33	190.83	-10.96	-2.76	0.21
1900.00	1899.92	-11.43	0.47	244.25	-11.42	-3.18	0.38
2000.00	1999.92	-12.11	0.83	225.69	-12.11	-4.07	0.41
2100.00	2099.91	-13.00	0.59	221.56	-13.00	-4.93	0.24
2200.00	2199.91	-13.85	0.61	208.96	-13.85	-5.53	0.13
2300.00	2299.90	-14.80	0.67	214.78	-14.79	-6.12	0.09
2400.00	2399.89	-15.91	0.83	209.63	-15.90	-6.81	0.17
2500.00	2499.88	-17.03	0.69	215.12	-17.02	-7.51	0.15
2600.00	2599.87	-18.15	0.84	211.03	-18.15	-8.24	0.16
2700.00	2699.86	-19.39	0.83	212.93	-19.38	-9.01	0.03
2800.00	2799.85	-20.46	0.56	198.74	-20.45	-9.56	0.32
2900.00	2899.85	-21.30	0.51	212.21	-21.29	-9.96	0.13
3000.00	2999.84	-22.17	0.62	203.69	-22.16	-10.41	0.13
3100.00	3099.84	-22.91	0.34	214.99	-22.90	-10.79	0.29
3200.00	3199.84	-23.50	0.49	215.23	-23.49	-11.21	0.15
3300.00	3299.84	-24.12	0.41	220.30	-24.11	-11.69	0.09
3400.00	3399.83	-24.59	0.24	170.59	-24.59	-11.88	0.31
3500.00	3499.83	-25.11	0.43	146.39	-25.11	-11.64	0.23
3600.00	3599.83	-25.79	0.71	125.86	-25.78	-10.93	0.34
3700.00	3699.82	-26.54	0.98	116.98	-26.54	-9.66	0.30
3800.00	3799.80	-27.49	1.27	120.52	-27.49	-7.95	0.30
3900.00	3899.78	-28.49	1.01	119.77	-28.49	-6.23	0.26
4000.00	3999.76	-29.38	0.92	123.95	-29.37	-4.80	0.11
4100.00	4099.74	-30.35	1.26	118.31	-30.34	-3.16	0.36
4200.00	4199.70	-31.37	1.89	107.68	-31.37	-0.62	0.69
4300.00	4299.62	-32.35	2.72	101.77	-32.35	3.28	0.86
4400.00	4399.50	-33.30	2.90	100.81	-33.31	8.08	0.19
4449.00	4448.44	-33.78	2.91	101.50	-33.79	10.52	0.07

The Horizontal Displacement (in Feet) at
Measured Depth 4449.00 is 35.39 in a Direction of 162.71 Degrees

Pathfinder Energy

Survey Report

Company: EOG Resources				Date: 7/5/2006				Time: 11:02:29				Page: 1			
Field: Thames Field				Co-ordinate(NE) Reference: Well: New 25 Fed #1H, Grid North											
Site: New 25 Fed #1H				Vertical (TVD) Reference: SITE 3647.0											
Well: New 25 Fed #1H				Section (VS) Reference: Well (0.00N,0.00E,0.04Azi)											
Wellpath: Original Hole				Survey Calculation Method: Minimum Curvature								Db: Sybase			
Field: Thames Field Eddy, Co. NM USA															
Map System:US State Plane Coordinate System 1927						Map Zone:		New Mexico, Eastern Zone							
Geo Datum:NAD27 (Clarke 1866)						Coordinate System:		Well Centre							
Sys Datum:Mean Sea Level						Geomagnetic Model:		igrf2005							
Site: New 25 Fed #1H															
S-25, T-25S, R-24E															
Site Position:				Northing:		686960.30 ft		Latitude:		32 53 18.136 N					
From: Map				Easting:		437987.90 ft		Longitude:		104 32 7.251 W					
Position Uncertainty: 0.00 ft								North Reference:		Grid					
Ground Level: 3647.00 ft								Grid Convergence:		-0.11 deg					
Well: New 25 Fed #1H															
Slot Name:															
Well Position: +N/-S 0.00 ft				Northing:		686960.30 ft		Latitude:		32 53 18.136 N					
+E/-W 0.00 ft				Easting :		437987.90 ft		Longitude:		104 32 7.251 W					
Position Uncertainty: 0.00 ft															
Wellpath: Original Hole															
Current Datum: SITE				Height:3647.00 ft		Drilled From:		Surface							
Magnetic Data: 6/24/2006						Tie-on Depth:		0.00 ft							
Field Strength: 49445 nT						Above System Datum:		Mean Sea Level							
Vertical Section: Depth From (TVD)						Declination:		8.66 deg							
ft				+N/-S ft		+E/-W ft		Direction deg							
0.00				0.00		0.00		0.04							
Survey: Pathfinder MWD Surveys															
Start Date: 6/27/2006															
Company: Pathfinder Energy															
Engineer: Midwellplan															
Tool: From: Definitive Path															
Survey: Pathfinder MWD Surveys															
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment					
4300.00	2.72	101.77	4299.63	-32.37	3.27	-32.36	0.00	0.00	0.00						
4342.00	2.81	83.04	4341.58	-32.45	5.27	-32.44	2.15	0.21	-44.60						
4373.00	4.04	46.91	4372.53	-31.61	6.82	-31.60	7.82	3.97	-116.55						
4405.00	6.60	26.79	4404.39	-29.20	8.47	-29.19	9.78	8.00	-62.87						
4436.00	10.20	23.71	4435.05	-25.09	10.38	-25.08	11.70	11.61	-9.94						
4468.00	13.89	22.39	4466.34	-18.94	12.98	-18.93	11.56	11.53	-4.12						
4499.00	17.67	20.28	4496.17	-11.09	16.03	-11.07	12.33	12.19	-6.81						
4531.00	21.46	18.44	4526.32	-0.97	19.57	-0.96	12.00	11.84	-5.75						
4562.00	25.50	16.59	4554.74	10.81	23.27	10.82	13.25	13.03	-5.97						
4593.00	29.37	14.57	4582.25	24.56	27.09	24.58	12.84	12.48	-6.52						
4624.00	33.24	11.14	4608.74	40.27	30.64	40.29	13.74	12.48	-11.06						
4656.00	36.58	7.89	4634.98	58.32	33.65	58.35	11.94	10.44	-10.16						
4687.00	40.10	4.11	4659.29	77.44	35.63	77.47	13.64	11.35	-12.19						
4719.00	43.35	0.95	4683.17	98.71	36.55	98.74	12.09	10.16	-9.87						
4750.00	47.04	359.72	4705.02	120.70	36.67	120.72	12.23	11.90	-3.97						
4782.00	51.27	359.54	4725.94	144.90	36.52	144.93	13.23	13.22	-0.56						
4813.00	56.28	359.10	4744.25	169.90	36.22	169.92	16.20	16.16	-1.42						
4844.00	61.11	358.22	4760.36	196.37	35.59	196.39	15.77	15.58	-2.84						
4876.00	64.90	357.43	4774.88	224.86	34.51	224.88	12.05	11.84	-2.47						
4907.00	67.18	357.17	4787.47	253.15	33.17	253.187.39		7.35	-0.84						
4939.00	70.08	357.26	4799.13	282.91	31.73	282.949.07		9.06	0.28						
4970.00	73.34	357.61	4808.85	312.31	30.41	312.34	10.57	10.52	1.13						
5001.00	76.41	357.70	4816.94	342.21	29.18	342.239.91		9.90	0.29						
5033.00	79.40	358.14	4823.65	373.48	28.05	373.509.44		9.34	1.37						

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: New 25 Fed #1H Well: New 25 Fed #1H Wellpath: Original Hole	Date: 7/5/2006 Time: 11:02:29 Page: 2 Co-ordinate(NE) Reference: Well: New 25 Fed #1H, Grid North Vertical (TVD) Reference: SITE 3647.0 Section (VS) Reference: Well (0.00N,0.00E,0.04Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5065.00	83.19	358.14	4828.49	405.08	27.02	405.10	11.84	11.84	0.00	
5096.00	86.70	357.96	4831.22	435.94	25.97	435.96	11.34	11.32	-0.58	
5127.00	88.46	357.96	4832.53	466.89	24.87	466.915.68		5.68	0.00	
5159.00	88.72	358.31	4833.32	498.87	23.83	498.881.36		0.81	1.09	
5190.00	90.48	358.49	4833.53	529.85	22.96	529.875.71		5.68	0.58	
5222.00	92.24	359.01	4832.77	561.83	22.27	561.855.73		5.50	1.62	
5253.00	92.15	358.84	4831.59	592.81	21.68	592.820.62		-0.29	-0.55	
5284.00	91.71	358.40	4830.54	623.78	20.94	623.792.01		-1.42	-1.42	
5316.00	91.28	359.19	4829.71	655.76	20.27	655.782.81		-1.34	2.47	
5348.00	91.19	359.19	4829.02	687.75	19.81	687.760.28		-0.28	0.00	
5379.00	91.10	359.19	4828.40	718.74	19.38	718.750.29		-0.29	0.00	
5410.00	90.84	359.01	4827.87	749.73	18.89	749.751.02		-0.84	-0.58	
5473.00	90.04	357.78	4827.39	812.70	17.12	812.722.33		-1.27	-1.95	
5536.00	89.52	356.82	4827.63	875.63	14.16	875.641.73		-0.83	-1.52	
5599.00	89.78	356.82	4828.02	938.53	10.66	938.540.41		0.41	0.00	
5662.00	91.10	355.67	4827.53	1001.39	6.54	1001.40	2.78	2.10	-1.83	
5725.00	91.28	354.79	4826.22	1064.16	1.30	1064.16	1.43	0.29	-1.40	
5787.00	90.84	354.36	4825.08	1125.87	-4.56	1125.87	0.99	-0.71	-0.69	
5851.00	89.25	352.77	4825.03	1189.47	-11.73	1189.46	3.51	-2.48	-2.48	
5914.00	90.22	351.72	4825.32	1251.89	-20.24	1251.87	2.27	1.54	-1.67	
5978.00	90.04	351.19	4825.17	1315.18	-29.74	1315.15	0.87	-0.28	-0.83	
6041.00	89.08	350.49	4825.66	1377.37	-39.77	1377.34	1.89	-1.52	-1.11	
6135.00	89.52	349.70	4826.80	1469.96	-55.94	1469.92	0.96	0.47	-0.84	
6230.00	89.87	351.54	4827.31	1563.69	-71.42	1563.63	1.97	0.37	1.94	
6324.00	89.34	352.60	4827.96	1656.78	-84.39	1656.72	1.26	-0.56	1.13	
6420.00	91.19	353.74	4827.51	1752.10	-95.81	1752.02	2.26	1.93	1.19	
6515.00	90.22	356.03	4826.35	1846.70	-104.28	1846.62	2.62	-1.02	2.41	
6611.00	89.96	357.52	4826.19	1942.55	-109.68	1942.46	1.58	-0.27	1.55	
6705.00	90.92	359.63	4825.47	2036.51	-112.01	2036.42	2.47	1.02	2.24	
6831.00	90.04	359.01	4824.42	2162.49	-113.51	2162.41	0.85	-0.70	-0.49	
6958.00	91.98	1.21	4822.18	2289.46	-113.27	2289.37	2.31	1.53	1.73	
7085.00	91.36	0.68	4818.48	2416.39	-111.17	2416.30	0.64	-0.49	-0.42	
7244.00	91.01	1.12	4815.19	2575.33	-108.68	2575.25	0.35	-0.22	0.28	
7370.00	88.81	0.68	4815.39	2701.31	-106.70	2701.23	1.78	-1.75	-0.35	
7496.00	88.37	359.98	4818.49	2827.27	-105.97	2827.19	0.66	-0.35	-0.56	
7655.00	88.37	0.86	4823.01	2986.20	-104.81	2986.12	0.55	0.00	0.55	
7814.00	87.85	0.77	4828.25	3145.10	-102.55	3145.02	0.33	-0.33	-0.06	
7972.00	87.58	1.21	4834.55	3302.95	-99.82	3302.87	0.33	-0.17	0.28	
8131.00	88.64	1.30	4839.80	3461.82	-96.34	3461.75	0.67	0.67	0.06	
8221.00	88.72	2.18	4841.87	3551.75	-93.61	3551.68	0.98	0.09	0.98	
8315.00	90.92	1.65	4842.17	3645.69	-90.46	3645.62	2.41	2.34	-0.56	
8441.00	91.19	1.83	4839.85	3771.61	-86.64	3771.55	0.26	0.21	0.14	
8536.00	90.75	0.95	4838.24	3866.57	-84.34	3866.51	1.04	-0.46	-0.93	
8592.00	90.75	0.95	4837.50	3922.56	-83.41	3922.49	0.00	0.00	0.00	

EOG Resources

Field: Thames Field
Site: New 25 Fed #1H
Well: New 25 Fed #1H
Wellpath: Original Hole
Survey: Pathfinder MWD Surveys

COMPANY DETAILS

EOG Resources
4000 N. Big Spring, Ste. 500
Midland, TX 79705

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

WELLPATH DETAILS

Original Hole
Rig: SITE 3647.00R
Ref. Datum: Origin +N/S
V. Section Angle: 0.04°
Origin +E/W
Starting From TVD 0.00

SITE DETAILS

New 25 Fed #1H
S-25, T-25S, R-24E
Site Centre Northing: 686960.30
Easting: 437987.90

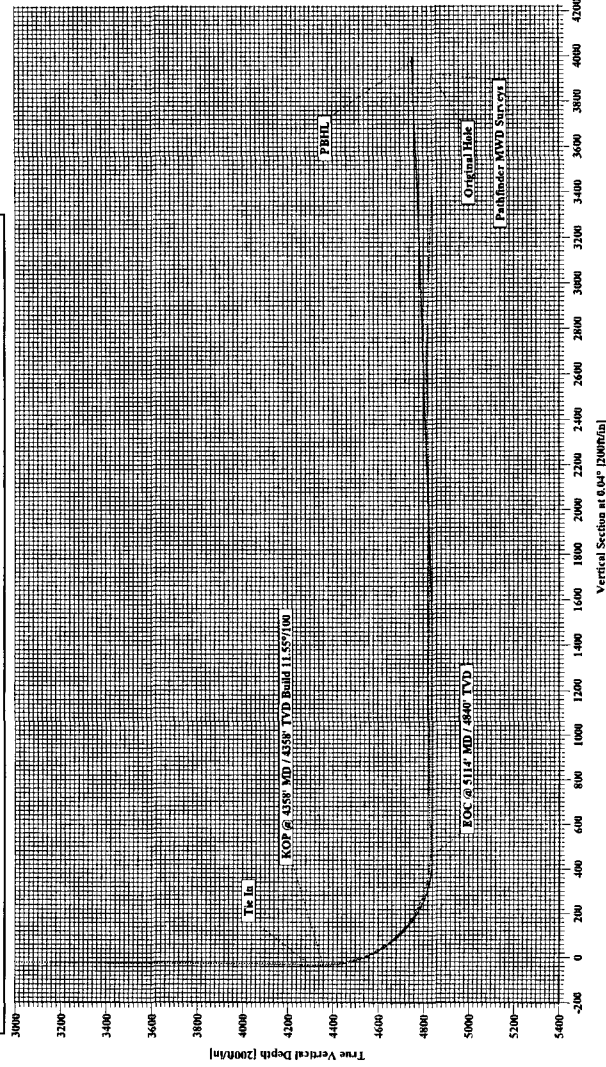
Ground Level: 3647.00
Positional Uncertainty: 0.00
Convergence: -0.11

ANNOTATIONS

No.	TVD	MD	Annotation
1	4299.63	4300.00	Tie In
2	4357.56	4358.00	KOP @ 4358' MD / 4358' TVD Build 11.55°/100
3	4832.09	5113.91	EOC @ 5114' MD / 4840' TVD

Survey: Pathfinder MWD Surveys (New 25 Fed #1H/Original Hole)

No	MD	Inc	Az	TVD	+N/-S	+E/W	DLeg	TFace	VSec
45	5978.00	90.04	351.19	4825.17	1315.18	-29.74	0.87	-108.76	1315.15
46	6041.00	89.08	350.49	4825.66	1377.37	-39.77	1.89	-143.90	1377.34
47	6133.00	89.52	349.70	4826.80	1469.96	-55.94	0.96	-60.99	1469.92
48	6230.00	89.87	351.54	4827.31	1563.69	-71.42	1.97	79.24	1563.63
49	6324.00	89.34	352.60	4827.16	1656.78	-84.39	2.26	116.57	1656.72
50	6420.00	91.19	355.74	4827.51	1752.10	-95.81	2.26	31.04	1752.02
51	6515.00	90.22	356.03	4826.35	1846.70	-104.28	2.62	112.94	1846.62
52	6611.00	89.96	357.52	4826.19	1942.55	-109.68	1.58	99.90	1942.46
53	6705.00	90.92	359.63	4825.47	2036.51	-112.01	2.47	65.53	2036.42
54	6831.00	90.04	359.01	4824.42	2162.49	-113.51	0.85	-144.83	2162.41
55	6958.00	91.98	1.21	4822.18	2289.46	-113.27	2.31	48.57	2289.37
56	7085.00	91.36	0.68	4818.48	2416.39	-111.17	0.64	-139.48	2416.30
57	7244.00	91.01	0.12	4815.19	2575.33	-108.68	0.35	128.50	2575.25
58	7398.00	88.77	0.68	4811.53	2701.19	-106.18	0.68	165.69	2701.11
59	7498.00	88.37	359.98	4818.40	2827.27	-105.97	0.66	-159.17	2827.19
60	7655.00	88.37	0.86	4823.01	2986.20	-104.81	0.55	90.01	2986.12
61	7814.00	87.85	0.77	4828.25	3145.10	-102.55	0.33	-170.19	3145.02
62	7972.00	87.58	1.21	4834.55	3302.95	-99.82	0.33	121.56	3302.87
63	8131.00	88.64	1.30	4839.80	3461.82	-96.34	0.67	4.85	3461.75
64	8221.00	88.72	2.18	4841.87	3551.75	-93.61	0.98	84.81	3551.68
65	8315.00	90.92	1.65	4842.17	3645.69	-90.46	2.41	-13.55	3645.62
66	8441.00	91.19	1.83	4839.85	3771.61	-86.64	0.26	33.68	3771.55
67	8581.00	90.19	0.55	4838.54	3865.51	-84.44	0.44	-116.66	3865.43
68	8592.00	90.75	0.95	4837.50	3922.56	-83.41	0.00	0.00	3922.49



Annotations to Grid North
The North: 8.1°
Magnetic North: 8.7°
Magnetic Field
Strength: 49445nT
Dip Angle: 60.75°
Date: 6/24/2006
Model: IGR2005

PATHFINDER

Vertical Section at 8.04° (200ft/in)

West(-)/East(+) [200ft/in] North(+) South(-)
Date: 12/29/06

OFFSETS IN SECTION 25



EXHIBIT C