

Schlumberger

Anadrill

MDC Operations
9900 West Interstate 20
Midland, Texas 79706
Phone (915) 563-3057
Fax (915) 563-3059

May 2, 1999

Oil Conservation Division
District I
P.O. Box 1960
Hobbs, New Mexico 88241-1960

Re: CONOCO
Hardy #36 State #27
Section 36, T 20S, R 37E
Lea County, NM.
API # 30-025-34794

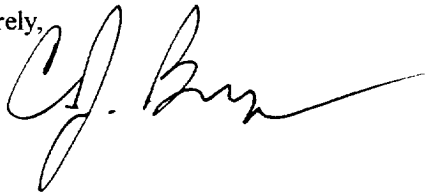
SUR: J: 2200/54 1650/E
BHL: I: 1954/54 821/E

Enclosed, please find the original and one copy of the survey performed on the referenced well by Anadrill, a division of Schlumberger Technology Corporation. Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
CJ Bourque MWD I	#01	7555' to 8410'	2/06/01 - 2/15/01	MWD

A certified plat on which the bottom hole is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,



Cc: CONOCO

Enclosures: 2

Schlumberger

Anadrill

MDC Operations
9900 West Interstate 20
Midland, Texas 79706
Phone (915) 563-3057
Fax (915) 563-3059

State of New Mexico
County of Lea

I, CJ Bourque, certify that; I am employed by Anadrill, a division of Schlumberger Technology Corporation; that I did on the day's of 2/06/01 through 2/15/01 conduct or supervise the taking of MWD surveys from a depth of 7555 feet to a depth of 8410 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Anadrill, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of CONOCO, for the Hardy #36 State #27, API # 30-025-34794, in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Anadrill, a division of Schlumberger Technology Corporation.



CJ Bourque,
DSE

Proposed Well Profile

Report Date: February 16, 2001 Client: Conoco Field: Lea Co. NM Structure / Slot: Hardy "36" State #27 / Hardy "36" State #27 Well: Hardy "36" State #27 Borehole: Hardy "36" State #27 UWI/API#: Proposal Name / Modified Date: actual / February 16, 2001 Tort / AHD / DDI/ERD ratio: 122.250° / 837.61 ft / 5.052 / 0.109 Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet Location Lat/Long: N 32 31 41.835, W 103 12 6.215 Location Grid N/E Y/X: N 557773.799 ftUS, E 890105.570 ftUS Grid Convergence Angle: +0.60854011° Grid Scale Factor: 1.00004840	Survey / DLS Computation Method: Minimum Curvature / Lubinsk Vertical Section Azimuth: 107.000° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: KB TVD Reference Elevation: 3493.0 ft relative to MSL Sea Bed / Ground Level Elevation: 0.000 ft relative to MSL Magnetic Declination: 8.621° Total Field Strength: 49864.650 nT Magnetic Dip: 60.797° Declination Date: February 12, 2001 Magnetic Declination Model: BGGM 2000 North Reference: True North Total Corr Mag North -> True North: -8.621° Local Coordinates Referenced To: Structure Reference Point
---	--

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
Tie-In	7540.00	1.31	175.67	7539.61	-7.78	12.24	-4.39	13.01	340.26	0.00	119.7MTF
	7555.00	16.40	119.70	7554.40	-5.64	11.01	-2.53	11.30	347.07	104.69	-37.5
	7566.00	22.40	108.40	7564.77	-2.02	9.58	0.81	9.61	4.85	64.10	-10.7
	7576.00	27.00	106.50	7573.85	2.15	8.33	4.80	9.62	29.94	46.67	-14.7
	7586.00	32.10	104.00	7582.55	7.08	7.04	9.56	11.87	53.61	52.46	-10.4
	7596.00	37.80	102.30	7590.74	12.79	5.75	15.13	16.19	69.20	57.82	-6.3
	7606.00	43.40	101.40	7598.33	19.27	4.42	21.50	21.95	78.40	56.30	5.5
	7616.00	48.90	102.10	7605.26	26.45	2.95	28.56	28.71	84.11	55.23	13.2
	7626.00	54.10	103.60	7611.48	34.25	1.20	36.18	36.20	88.10	53.31	17.7
	7637.00	59.80	105.70	7617.48	43.46	-1.13	45.10	45.11	91.44	54.23	16.7
	7645.00	64.00	107.10	7621.25	50.52	-3.13	51.87	51.96	93.45	54.72	23.4
	7651.00	67.20	108.60	7623.72	55.98	-4.80	57.07	57.27	94.81	57.99	-4.8
	7672.00	77.70	107.70	7630.05	75.97	-11.03	76.07	76.86	98.25	50.17	-12.3

7683.00	79.50	107.30	7632.22	86.75	-14.27	86.35	87.52	99.38	16.75	-6.6
7694.00	81.20	107.10	7634.07	97.59	-17.48	96.71	98.28	100.24	15.56	-12.4
7704.00	82.10	106.90	7635.52	107.49	-20.37	106.17	108.11	100.86	9.21	15.9
7714.00	83.50	107.30	7636.77	117.41	-23.29	115.65	117.97	101.38	14.55	0.0
7719.00	84.20	107.30	7637.31	122.38	-24.76	120.40	122.92	101.62	14.00	19.4
7748.00	87.90	108.60	7639.30	151.30	-33.68	147.92	151.70	102.83	13.52	-3.2
7780.00	89.70	108.50	7639.97	183.28	-43.86	178.25	183.56	103.82	5.63	38.7
7811.00	90.20	108.90	7640.00	214.27	-53.80	207.61	214.47	104.53	2.07	51.3
7843.00	90.60	109.40	7639.78	246.24	-64.29	237.84	246.38	105.13	2.00	-21.8
7875.00	91.10	109.20	7639.30	278.21	-74.87	268.04	278.30	105.61	1.68	-71.6
7907.00	91.20	108.90	7638.66	310.19	-85.31	298.28	310.24	105.96	0.99	-171.3
7938.00	89.90	108.70	7638.36	341.17	-95.30	327.62	341.20	106.22	4.24	-164.8
7971.00	87.70	108.10	7639.06	374.15	-105.71	358.93	374.17	106.41	6.91	7.1
8001.00	88.50	108.20	7640.05	404.13	-115.05	387.42	404.14	106.54	2.69	0.0
8032.00	89.20	108.20	7640.67	435.11	-124.73	416.86	435.12	106.66	2.26	180.0
8065.00	87.20	108.20	7641.71	468.09	-135.04	448.19	468.09	106.77	6.06	-151.5
8095.00	85.00	107.00	7643.75	498.02	-144.09	476.72	498.02	106.82	8.35	-18.4
8126.00	85.60	106.80	7646.29	528.91	-153.07	506.28	528.91	106.82	2.04	-26.5
8158.00	86.20	106.50	7648.58	560.83	-162.21	536.86	560.83	106.81	2.10	168.7
8189.00	85.70	106.60	7650.77	591.75	-171.02	566.50	591.75	106.80	1.64	-153.5
8220.00	84.70	106.10	7653.36	622.64	-179.72	596.14	622.64	106.78	3.60	15.9
8251.00	85.40	106.30	7656.04	653.52	-188.33	625.80	653.53	106.75	2.35	44.9
8282.00	85.90	106.80	7658.39	684.43	-197.14	655.43	684.44	106.74	2.28	-123.8
8314.00	85.30	105.90	7660.84	716.33	-206.12	686.05	716.34	106.72	3.37	33.6
8346.00	85.90	106.30	7663.30	748.23	-214.97	716.70	748.25	106.70	2.25	-176.2
8378.00	84.40	106.20	7666.00	780.12	-223.89	747.31	780.13	106.68	4.70	-177.0
8410.00	80.60	106.00	7670.18	811.83	-232.69	777.79	811.85	106.66	11.89	180.0
Projected to Bit	8464.00	74.10	106.00	864.49	-247.20	828.41	864.51	106.62	12.04	0.0

Survey Error Model: (No Error Model Selected)

DISTRICT I
P.O. Box 1860, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1984
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name HARDY STATE "36"	Well Number 27
OGHD No.	Operator Name CONOCO INC.	Elevation 3493'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	36	20 S	37 E		2200	SOUTH	1650	EAST	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.						

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 the information contained herein to be true and complete to the best of my knowledge and belief. Signature _____ Printed Name _____ Title _____ Date _____
	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. November 11, 1999 Date Surveyed _____ Signature & Seal of Professional Surveyor _____
	W.O. No. 9399A Certificate No. Gary L. Jones 7977
	BASIN SURVEYS

Schlumberger**Anadrill**

MDC Operations
9900 West Interstate 20
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May 2, 1999

Oil Conservation Division
District I
P.O. Box 1960
Hobbs, New Mexico 88241-1960

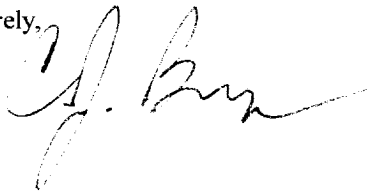
Re: CONOCO
Hardy #36 State #27
Section 36, T 20S, R 37E
Lea County, NM.
API # 30-025-34794

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<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
CJ Bourque MWD I	#01	7555' to 8410'	2/06/01 - 2/15/01	MWD

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Enclosures: 2

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State of New Mexico
County of Lea

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CJ Bourque,
DSE

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	7555.00	16.40	119.70	7554.40	-5.64	11.01	-2.53	11.30	347.07	104.69	-37.5
	7566.00	22.40	108.40	7564.77	-2.02	9.58	0.81	9.61	4.85	64.10	-10.7
	7576.00	27.00	106.50	7573.85	2.15	8.33	4.80	9.62	29.94	46.67	-14.7
	7586.00	32.10	104.00	7582.55	7.08	7.04	9.56	11.87	53.61	52.46	-10.4
	7596.00	37.80	102.30	7590.74	12.79	5.75	15.13	16.19	69.20	57.82	-6.3
	7606.00	43.40	101.40	7598.33	19.27	4.42	21.50	21.95	78.40	56.30	5.5
	7616.00	48.90	102.10	7605.26	26.45	2.95	28.56	28.71	84.11	55.23	13.2
	7626.00	54.10	103.60	7611.48	34.25	1.20	36.18	36.20	88.10	53.31	17.7
	7637.00	59.80	105.70	7617.48	43.46	-1.13	45.10	45.11	91.44	54.23	16.7
	7645.00	64.00	107.10	7621.25	50.52	-3.13	51.87	51.96	93.45	54.72	23.4
	7651.00	67.20	108.60	7623.72	55.98	-4.80	57.07	57.27	94.81	57.99	-4.8
	7672.00	77.70	107.70	7630.05	75.97	-11.03	76.07	76.86	98.25	50.17	-12.3

7683.00	79.50	107.30	7632.22	86.75	-14.27	86.35	87.52	99.38	16.75	-6.6
7694.00	81.20	107.10	7634.07	97.59	-17.48	96.71	98.28	100.24	15.56	-12.4
7704.00	82.10	106.90	7635.52	107.49	-20.37	106.17	108.11	100.86	9.21	15.9
7714.00	83.50	107.30	7636.77	117.41	-23.29	115.65	117.97	101.38	14.55	0.0
7719.00	84.20	107.30	7637.31	122.38	-24.76	120.40	122.92	101.62	14.00	19.4
7748.00	87.90	108.60	7639.30	151.30	-33.68	147.92	151.70	102.83	13.52	-3.2
7780.00	89.70	108.50	7639.97	183.28	-43.86	178.25	183.56	103.82	5.63	38.7
7811.00	90.20	108.90	7640.00	214.27	-53.80	207.61	214.47	104.53	2.07	51.3
7843.00	90.60	109.40	7639.78	246.24	-64.29	237.84	246.38	105.13	2.00	-21.8
7875.00	91.10	109.20	7639.30	278.21	-74.87	268.04	278.30	105.61	1.68	-71.6
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7938.00	89.90	108.70	7638.36	341.17	-95.30	327.62	341.20	106.22	4.24	-164.8
7971.00	87.70	108.10	7639.06	374.15	-105.71	358.93	374.17	106.41	6.91	7.1
8001.00	88.50	108.20	7640.05	404.13	-115.05	387.42	404.14	106.54	2.69	0.0
8032.00	89.20	108.20	7640.67	435.11	-124.73	416.86	435.12	106.66	2.26	180.0
8065.00	87.20	108.20	7641.71	468.09	-135.04	448.19	468.09	106.77	6.06	-151.5
8095.00	85.00	107.00	7643.75	498.02	-144.09	476.72	498.02	106.82	8.35	-18.4
8126.00	85.60	106.80	7646.29	528.91	-153.07	506.28	528.91	106.82	2.04	-26.5
8158.00	86.20	106.50	7648.58	560.83	-162.21	536.86	560.83	106.81	2.10	168.7
8189.00	85.70	106.60	7650.77	591.75	-171.02	566.50	591.75	106.80	1.64	-153.5
8220.00	84.70	106.10	7653.36	622.64	-179.72	596.14	622.64	106.78	3.60	15.9
8251.00	85.40	106.30	7656.04	653.52	-188.33	625.80	653.53	106.75	2.35	44.9
8282.00	85.90	106.80	7658.39	684.43	-197.14	655.43	684.44	106.74	2.28	-123.8
8314.00	85.30	105.90	7660.84	716.33	-206.12	686.05	716.34	106.72	3.37	33.6
8346.00	85.90	106.30	7663.30	748.23	-214.97	716.70	748.25	106.70	2.25	-176.2
8378.00	84.40	106.20	7666.00	780.12	-223.89	747.31	780.13	106.68	4.70	-177.0
8410.00	80.60	106.00	7670.18	811.83	-232.69	777.79	811.85	106.66	11.89	180.0
Projected to Bit	8464.00	74.10	106.00	864.49	-247.20	828.41	864.51	106.62	12.04	0.0

Survey Error Model: (No Error Model Selected)

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd. Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994
instructions on back

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34794	2 Pool Code 96893	3 Pool Name North Hardy Strawn
4 Property Code 13396	5 Property Name Hardy "36" State	6 Well Number #27
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation 3493'

10 Surface Location

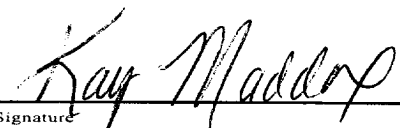
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	36	20S	37 E		2200	South	1650	East	Lea

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
I	36	20 S	37 E		1952	South	821	East	Lea

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No. NSL Order # 4430-A (NSBHL)
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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

16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Kay Maddox Printed Name Regulatory Agent Title March 20, 2001 Date
					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

