

Subj: Unit Petr. Company's proposed Monte Carlo Fed. Com. # 55
 Date: 8/19/2005 11:44:22 AM Mountain Standard Time
 From: michael.stogner@state.nm.us
 To: jamesbruc@aol.com
 CC: bryan.arrant@state.nm.us

Supp Date:

9/21/2005

Mr. Bruce:

I have reviewed your application for Unit Petroleum Company's proposed Monte Carlo Federal Com. Well No. 1. The "Special Rules and Regulations for the Atoka-Pennsylvanian Gas Pool," as promulgated by Division Order No. R-8170, as amended, provide for (i) 320-acre spacing and proration units comprising two contiguous quarter sections within a single governmental section being a legal subdivision of the U. S. Public Land Surveys; and (ii) for wells to be located in the northwest quarter or the southeast quarter of the section and shall be located no nearer than 990 feet to the outer boundary of the quarter section nor nearer than 330 feet to any governmental quarter-quarter section line.

Notice to all effected offsetting interests (all sides) under Division Rule 1207.A (2) is therefore required before I can act on your application. Please submit proof of notice and a land plan that shows all effected lands by the end of the month.

Also, please provide me a copy of Unit's proposed directional drilling plan for this well. Thanks.

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9/1/05
 Amended Application
 w/ notice is enclosed
 Jim Bruce

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

September 1, 2005

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

2005 SEP 1 AM 9 55

Dear Mr. Stogner:

Pursuant to Division Rule 104.F(2), Unit Petroleum Company applies for approval of an unorthodox gas well location for the following well:

<u>Well name:</u>	Monte Carlo Fed. Com. Well No. 1
<u>Surface location:</u>	2385 feet FNL & 271 feet FEL
<u>Bottomhole location:</u>	1845 feet FNL & 1487 feet FEL
<u>Well unit:</u>	E½ of Section 1, Township 18 South, Range 26 East, N.M.P.M. Eddy County, New Mexico

The well will be drilled to a depth sufficient to test the Atoka and Morrow formations (Atoka-Pennsylvanian Gas Pool). Under Order No. R-8170, as amended, the pool is spaced on 320 acres, with wells to be located no closer than 990 feet to a quarter section line nor closer than 330 feet to a quarter-quarter section line. In addition, wells are to be located in the NW¼ or SE¼ of a section.

A federal-form APD is attached as Exhibit A, and a state-form APD is attached as Exhibit B. (The surface location is on federal land, and the bottomhole location is on fee land, so the Bureau of Land Management (the "BLM") requested that both forms be filed.) A sundry notice has been filed with the BLM, showing that the bottomhole location has been changed from its original location to the above location.

The location is based on topographic and geologic reasons. Attached as Exhibit C are topographic plats of the area. The Pecos River and some surface relief severely restrict surface locations in the western two-thirds of the well unit. As a result, there is no "standard" location

available in the NE¼NE¼ of Section 1. There are existing roads in the SE¼NE¼ of Section 1, where the BLM will allow a surface location. See Exhibit D.

Attached as Exhibit E is an isopach of the primary zone. The bottomhole location is situated to be in the middle of the main pay zone. Tight or non-productive wells immediately to the east and west stress the need to hit the thickest part of the pay, and the proposed location minimizes the length and cost of the directional wellbore. In addition, a well has already been drilled in the SE¼ of Section 1.

A copy of the revised directional drilling plan is being obtained and will be submitted to the Division. The following locations for formation tops are estimated:

Cisco/Canyon: 2180 feet FNL & 732 feet FEL at a TVD of 7690 feet

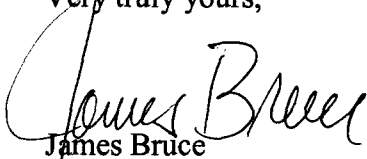
Atoka: 1975 feet FNL and 1206 feet FEL at a TVD of 8675 feet

The unorthodox location is internal to the well unit. However, because the well is in the "wrong" quarter section, notice of this application has been given to the offsets, listed on Exhibits F and G. The notice letter mailed to the offsets is attached as Exhibit H.

Applicant understands that the Atoka-Pennsylvanian Gas Pool covers the entire Pennsylvanian interval, but request unorthodox approval only in the Atoka and Morrow segments of the pool.

Please contact me if you need any further information on this application.

Very truly yours,

A handwritten signature in cursive script that reads "James Bruce". The signature is written in dark ink and is positioned above the printed name.

James Bruce

Attorney for Unit Petroleum Company

REC'D JUN 21 2005

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

reverse side)

UMLD NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL

☐

GAS

☒

OTHER

SINGLE

☒

MULTIPLE

☐

2. NAME OF OPERATOR

UNIT PETROLEUM COMPANY

(MATT DOFFER 432-685-9020)

3. ADDRESS AND TELEPHONE NO.

407 NORTH BIG SPRING ST. SUITE 101 MIDLAND, TEXAS 79701

(432-685-9020)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

2385' FNL & 271' FEL SECTION 1 T18S-R26E EDDY CO. MN

At proposed prod. zone 1905' FNL & 1350' FEL SECTION 1 T18S-R26E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 15 miles Southeast of Artesia New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

1305'

16. NO. OF ACRES IN LEASE

-

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

100'

19. PROPOSED DEPTH

MD 9290'
TVD 9010'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR..3363'

22. APPROX. DATE WORK WILL START*

WHEN APPROVED

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Conductor	NA	40'	Cement to surface W/Redi-mix
17½"	H-40 13 3/8"	48#	300'	450 Sx. circulate cement TS
12½"	J-55 9 5/8"	36#	1500'	800 Sx. " " "
8 3/4"	N-80 5½"	17	9290'	500 Sx. Est. TOC 6000'

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.

2. Drill 17½" hole to 300'. Run and set 300' of 13 3/8" 48# H-40 ST&C casing. Cement with 450 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. Circulate cement to surface.

3. Drill 12½" hole to 1500'. Run and set 1500' of 9 5/8" 36# J-55 ST&C casing. Cement with 550 Sx. of 35/65 Class "C" POZ cement + additives, tail in with 250 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. Circulate cement to surface.

4. Drill 8 3/4" hole to 9290' MD (9010' TVD) Run and set 9290' of 5½" 17# N-80 LT&C casing. Cement with 500 Sx. of Class "H" Premium Plus cement + additives, Estimate top of cement 6000' from surface, top of cement must be at least 500' above the uppermost hydrocarbon producing interval.

UNIT PETROLEUM COMPANY ACCEPTS THE RESPONSIBILITY FOR THE OPERATION OF THIS LEASE.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Agent

DATE

06/20/05

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to a leasehold interest.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.
LC-066445

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARMOR LEASE NAME, WELL NO. MONTE
CARLO FEDERAL COM. # 1

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
ATOKA PENN (PRO-GAS)

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
SECTION 1 T18S-R26E

12. COUNTY OR PARISH
EDDY CO. NEW

13. STATE
MEXICO



State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1625 N. FRENCH DR., HOBBBS, 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

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
	70800	ATOKA PENN (PRO. GAS)
Property Code	Property Name	Well Number
	MONTE CARLO FEDERAL COM	1
OGRID No.	Operator Name	Elevation
115970	UNIT PETROLEUM COMPANY	3363'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	18-S	26-E		2385	NORTH	271	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
G	1	18-S	26-E		1905	NORTH	1350	EAST	EDDY

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

LOT 4 40.23 AC LOT 3 40.16 AC LOT 2 40.10 AC LOT 1 40.03 AC PROJECT AREA PRODUCING AREA GEODETIC COORDINATES NAD 27 NME SURF. Y=646013.9 N X=501994.0 E LAT.=32°45'39.48" N LONG.=104°19'36.64" W BYH. Y=647094.1 N X=500913.6 E GRAZ=293°57'50" DIST=1182.3' 1905' 2385' 1350' 271' SEE DETAIL 3343.5' 3338.7' 600' 3320.9' 3366.0'	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Joe T. Janica</i> Signature Joe T. Janica Printed Name Agent Title 06/20/05 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. MAY 19, 2005 Date Surveyed REV 05/31/05 JR Signature & Seal of Professional Surveyor <i>Gary E. Edson</i> 05-11-0774 Certificate No. GARY EDSON 12841
---	---

EXHIBIT "A"

1025 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101

May 27, 2004

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address UNIT PETROLEUM, COMPANY 407 NORTH BIG SPRING SUITE 101 MIDLAND, TEXAS 79701		1 OGRID Number 115970
2 Property Code	Property Name MONTE CARLO FEDERAL COM.	3 API Number 30 -
4 Proposed Pool 1 ATOKA PENN PRO GAS (70800)		5 Proposed Pool 2

7 Surface Location

UL or lot no. H	Section 1	Township 18S	Range 26E	Lot Idn	Feet from the 2385'	North South line NORTH	Feet from the 271'	East/West line EAST	County EDDY
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8 Proposed Bottom Hole Location If Different From Surface

UL or lot no. G	Section 1	Township 18S	Range 26E	Lot Idn	Feet from the 1905'	North South line NORTH	Feet from the 1350'	East/West line EAST	County EDDY
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Additional Well Information

10 Work Type Code N	11 Well Type Code G	12 Cable/Rotary ROTARY	13 Lease Type Code P	14 Ground Level Elevation 3363'
15 Multiple NO	16 Proposed Depth MD-9290'TVD-9010'	17 Formation ATOKA	18 Contractor UNKNOWN	19 Spud Date WHEN APPROVED
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 18M 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
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48#	300'	450 Sx.	"
12 1/2"	9 5/8"	36#	1500'	800 Sx.	"
8 3/4"	5 1/2"	17#	9290'	500 Sx	6000' From S.*

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.

* Top of cement must be at least 500' above the upper most hydrocarbon productive zone.

SEE ATTACHED SHEET

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 NMOCDD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by:	
Title: Agent		Approval Date: Expiration Date:	
E-mail Address:			
Date: 07/01/05	Phone: 505-391-8503	Conditions of Approval Attached ☐	

DISTRICT I

1625 N. FRANKLIN DR., ROSA, NM 88440

DISTRICT II

1201 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Artec, 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 JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 70800	Pool Name ATOKA PENN (PRO. GAS)
Property Code	Property Name MONTE CARLO FEDERAL COM	Well Number 1
OGED No. 115970	Operator Name UNIT PETROLEUM COMPANY	Elevation 3363'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	18-S	26-E		2385	NORTH	271	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
G	1	18-S	26-E		1905	NORTH	1350	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

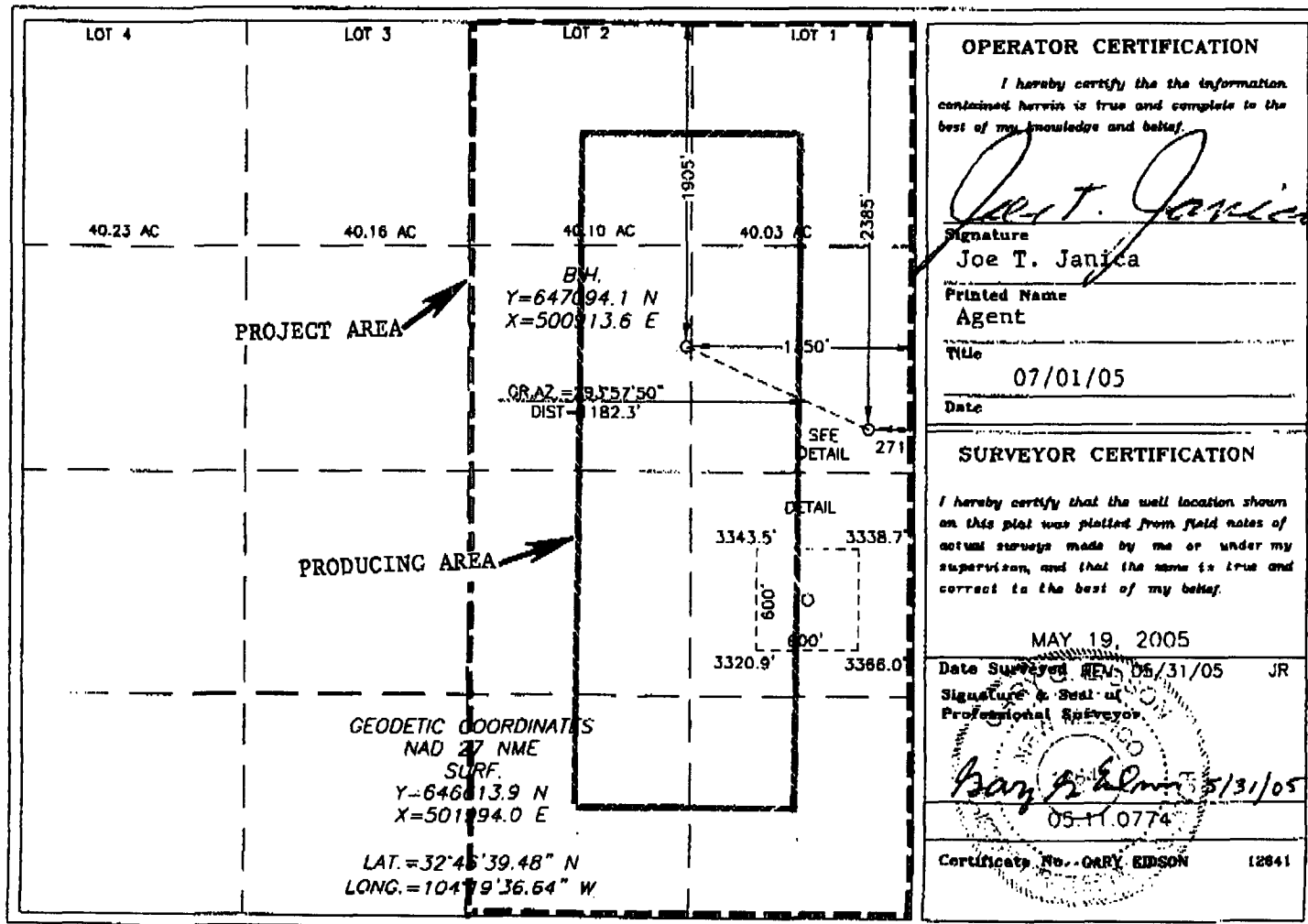
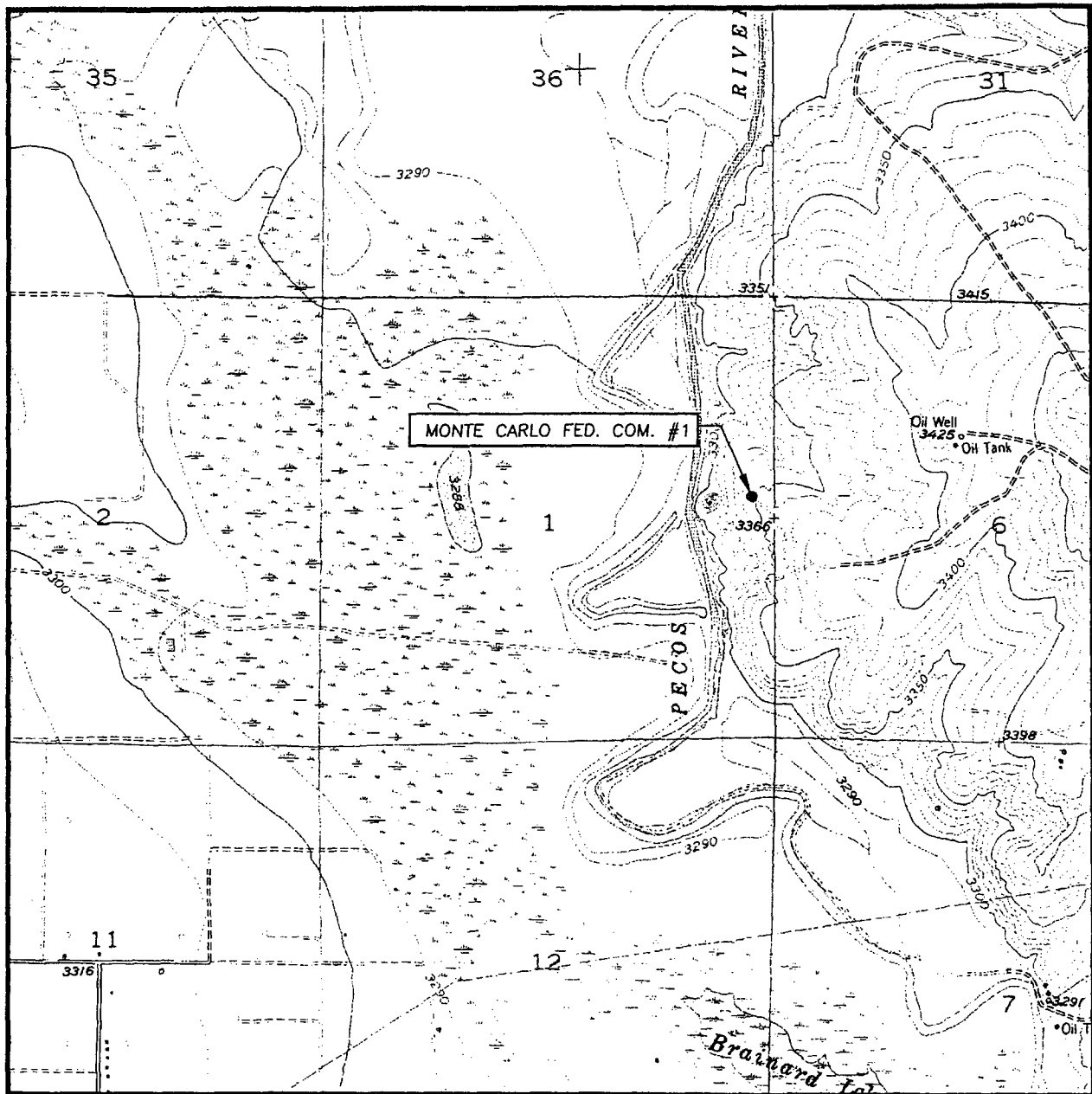


EXHIBIT "A"

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
SPRING LAKE, N.M. - 10'

SEC. 1 TWP. 18-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2385' FNL & 271' FEL

ELEVATION 3363'

OPERATOR UNIT PETROLEUM COMPANY

LEASE MONTE CARLO FED. COM.

U.S.G.S. TOPOGRAPHIC MAP
SPRING LAKE, N.M.

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



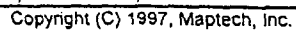
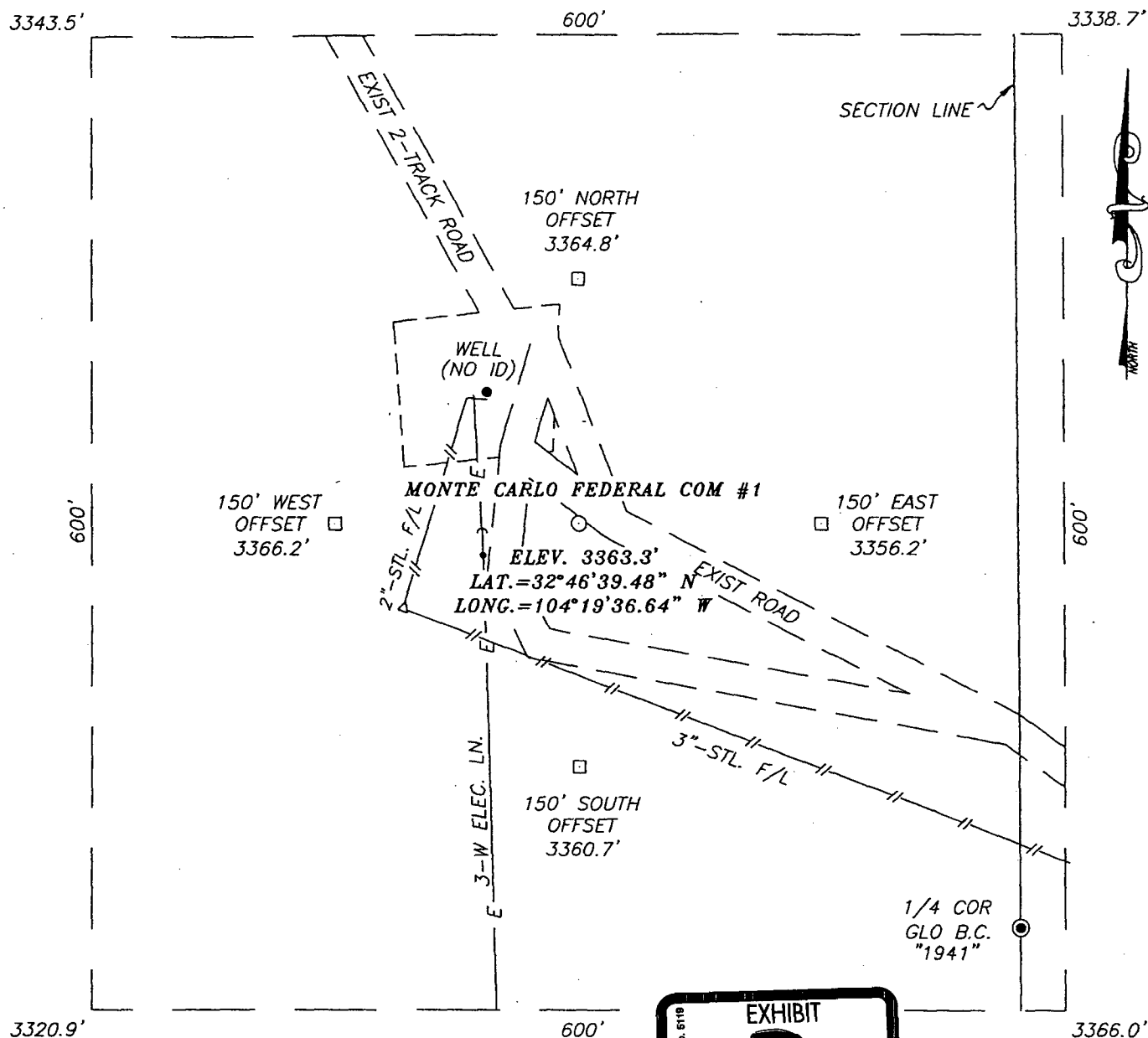


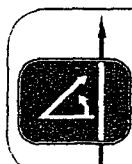
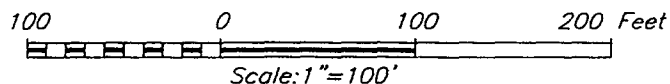
EXHIBIT "C"
TOPOGRAPHIC MAP SHOWING
ROADS & DIRECTIONS TO
UNIT PETROLEUM COMPANY
MONTE CARLO FEDERAL COM. # 1
SHL UNIT "H" SECTION 1
BHL UNIT "G" SECTION 1
T18S-R26E EDDY CO. NM

SECTION 1, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #201 (CHALK BLUFF RD.) GO SOUTH/SE ON CO. RD. #201 FOR APPROX. 4.0 MILES. TURN RIGHT (WEST) AND GO APPROX. 0.1 MILES WEST. ROAD BENDS LEFT (SW) AND GOES APPROX. 0.23 MILES. VEER RIGHT @ "Y" INTERSECTION AND GO WEST FOR APPROX. 0.2 MILES. VEER RIGHT @ "Y" AND GO WEST/NW FOR APPROX 0.55 MILES. VEER LEFT @ "Y" AND GO SW FOR APPROX. 0.6 MILES. ROAD BENDS RIGHT (NW) AND GOES APPROX. 0.13 MILES TO THE SWc OF EXIST WELL PAD. FOLLOW ROAD FOR APPROX. 0.15 MILES. PROPOSED LOCATION IS APPROX. 20' WEST.

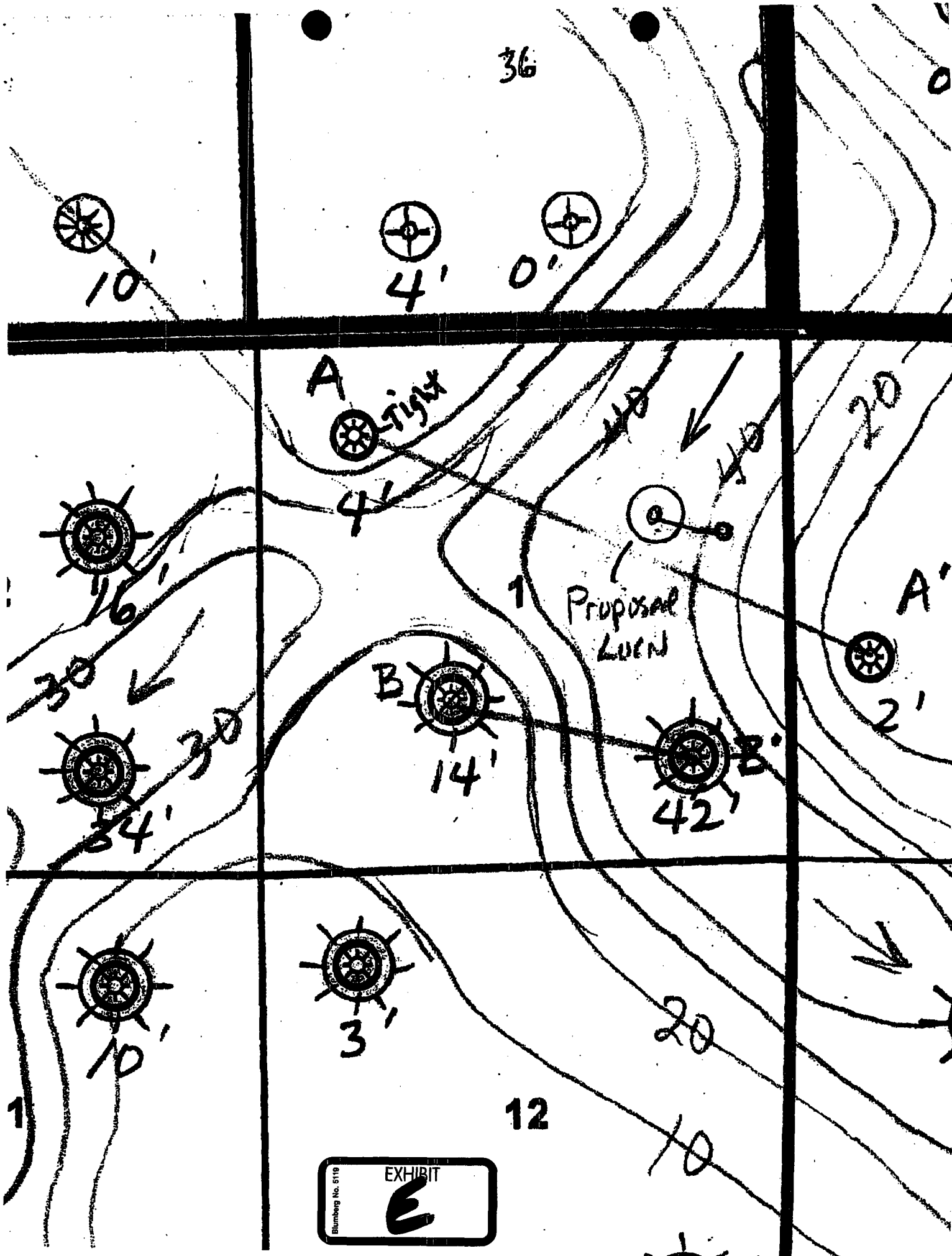


PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

UNIT PETROLEUM COMPANY

MONTE CARLO FEDERAL COM #1 WELL
LOCATED 2385 FEET FROM THE NORTH LINE
AND 271 FEET FROM THE EAST LINE OF SECTION 1,
TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 05/19/05	Sheet 1 of 1 Sheets
W.O. Number: 05.11.0774	Dr By: J.R.
Date: 05/20/05	Disk: CD#5
05110774	Scale: 1"=100'



OFFSET OPERATORS
MONTE CARLO FED. COM. WELL NO. 1

DESCRIPTION

OPERATOR/ADDRESS

W/2 Section 31, T17S-R27E

Yates Petroleum Corporation
Attention: Susan Vierra
105 South 4th Street
Artesia, New Mexico 88210

S/2 Section 36, T17S-R26E

SDX Resources, Inc.
P.O. Box 5061
Midland, Texas 79702

W/2 Section 1, T18S-R26E

Fasken Oil & Ranch, Ltd.
Attention: Sally Kvasnicka
303 West Wall, Suite 1800
Midland, Texas 79701

Section 6, T18S-R27E

BP America Production Company
Attention: Tom Furtwangler
501 Westlake Park Blvd – WL-1 6.918
Houston, Texas 77079

Devon Energy Production Company, L.P.
Attention: Ken Gray
20 North Broadway, Suite 1500
Oklahoma City, OK 73102

Occidental Permian Ltd.
P.O. Box 50250
Midland, Texas 79710-0250

Section 12, T18S-R26E

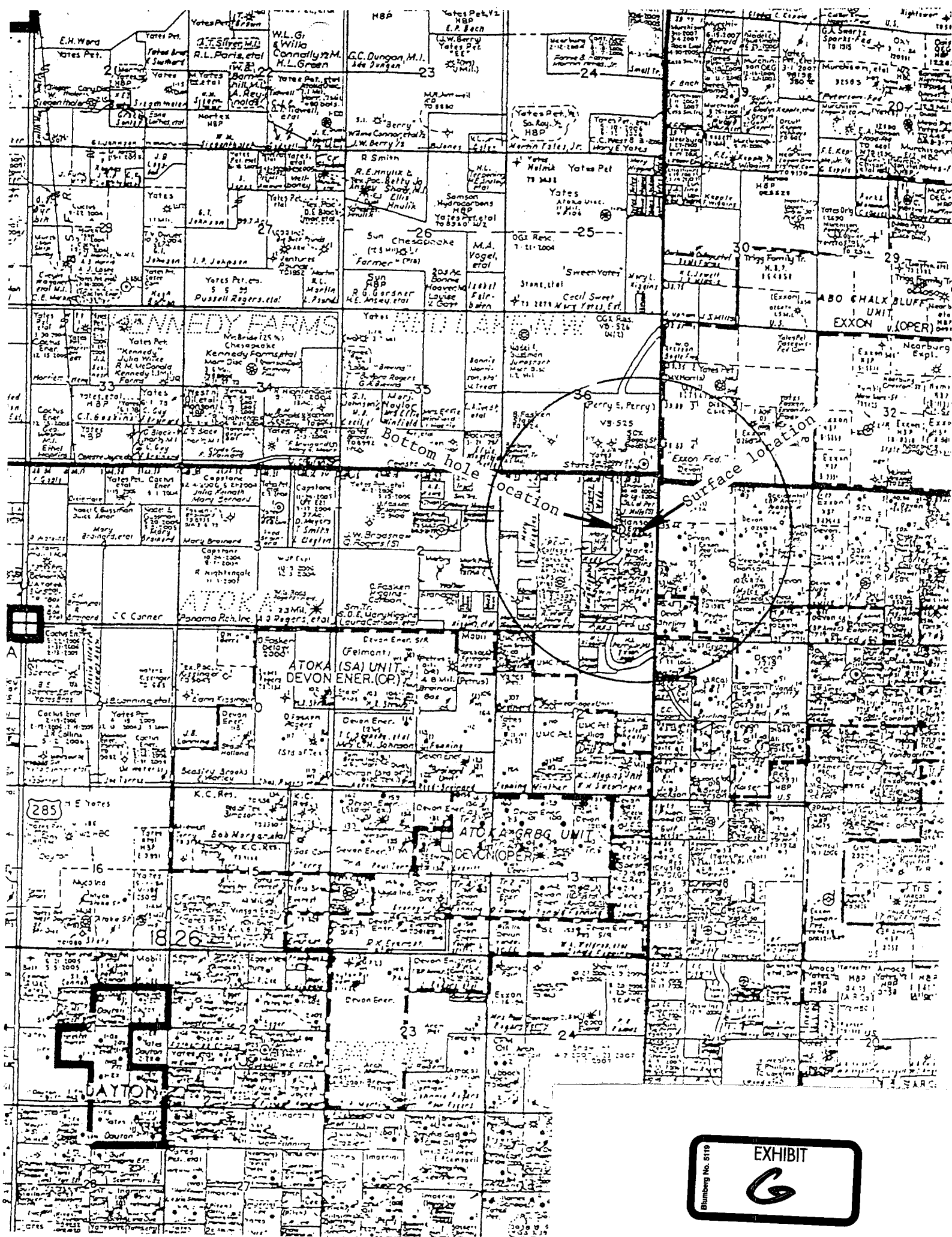
Gruy Petroleum Management Company
Attention: Roger Alexander
600 E. Los Colinas Blvd, Suite 1100
Irving, Texas 75038

N/2 & SW/4 Section 7, T18S-R27E

OXY USA Inc.
Attention: Patrick Sparks
P.O. Box 50250
Midland, Texas 79710-0250

Devon Energy Production Company, L.P.
(See address above)





JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

September 1, 2005

To: Persons on Exhibit 1

Ladies and gentlemen:

Unit Petroleum Company has filed an application with the New Mexico Oil Conservation Division seeking an unorthodox gas well location in the Atoka and Morrow formations in the E½ of Section 1, Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico. A copy of the application is enclosed. If you object to the application, you must notify the Division in writing no later than Wednesday, September 21, 2005 (the Division's address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505). Failure to object will preclude you from contesting this matter at a latter date.

Very truly yours,


James Bruce
Attorney for Unit Petroleum Company



OFFSET OPERATORS
MONTE CARLO FED. COM. WELL NO. 1

DESCRIPTION

OPERATOR/ADDRESS

W/2 Section 31, T17S-R27E

Yates Petroleum Corporation
Attention: Susan Vierra
105 South 4th Street
Artesia, New Mexico 88210

S/2 Section 36, T17S-R26E

SDX Resources, Inc.
P.O. Box 5061
Midland, Texas 79702

W/2 Section 1, T18S-R26E

Fasken Oil & Ranch, Ltd.
Attention: Sally Kvasnicka
303 West Wall, Suite 1800
Midland, Texas 79701

Section 6, T18S-R27E

BP America Production Company
Attention: Tom Furtwangler
501 Westlake Park Blvd – WL-1 6.918
Houston, Texas 77079

Devon Energy Production Company, L.P.
Attention: Ken Gray
20 North Broadway, Suite 1500
Oklahoma City, OK 73102

Occidental Permian Ltd.
P.O. Box 50250
Midland, Texas 79710-0250

Section 12, T18S-R26E

Gruy Petroleum Management Company
Attention: Roger Alexander
600 E. Los Colinas Blvd, Suite 1100
Irving, Texas 75038

N/2 & SW/4 Section 7, T18S-R27E

OXY USA Inc.
Attention: Patrick Sparks
P.O. Box 50250
Midland, Texas 79710-0250

Devon Energy Production Company, L.P.
(See address above)



 Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

Stogner, Michael, EMNRD

From: JamesBruc@aol.com [JamesBruc@aol.com]

Sent: Thu 9/1/2005 7:44 PM

To: Stogner, Michael, EMNRD

Cc:

Subject: Unit Petroleum/unorthodox location/1-18S-26E

Attachments:  [unit-monte carlo-drilling plan.pdf\(220KB\)](#)

Mike: Attached is the directional drilling plan.

Jim

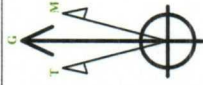


Field: Monte Carlo
Site: Eddy County, NM
Well: Monte Carlo Federal Com #1
Wellpath: 1
Plan: Plan #1

Unit Petroleum Co.

LEGEND

1
Plan #1



Azimuth to Grid North
Magnetic North: 8.69°

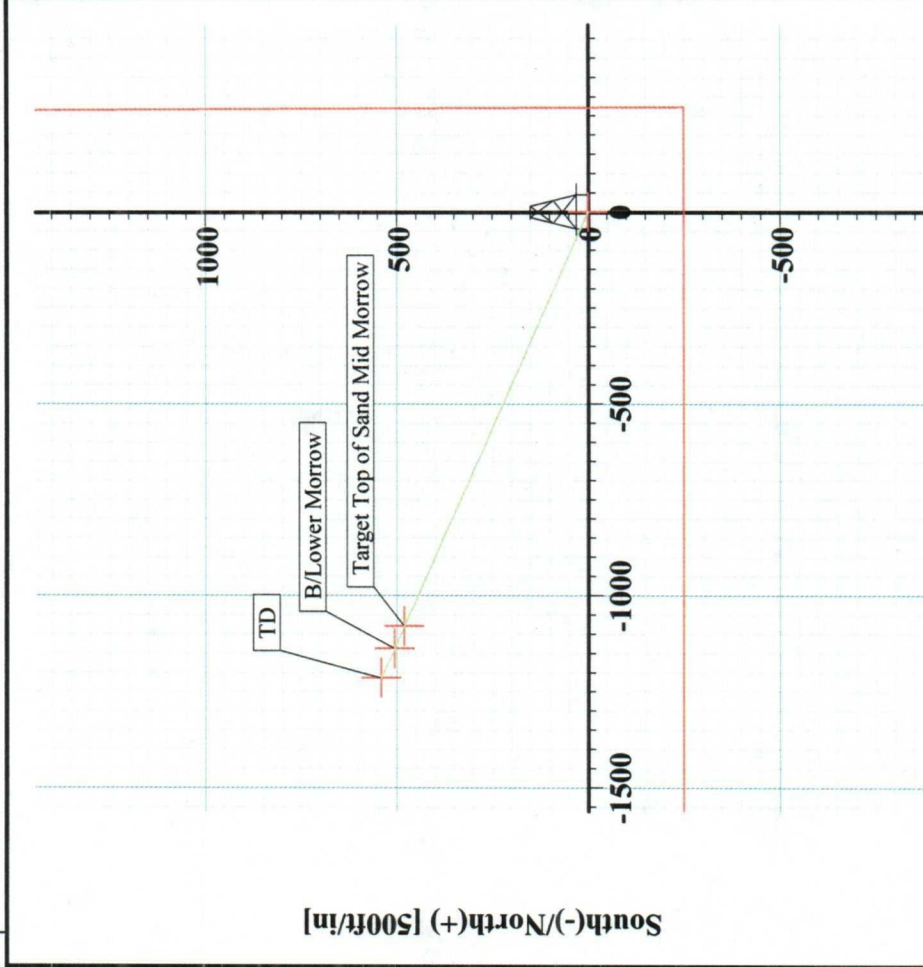
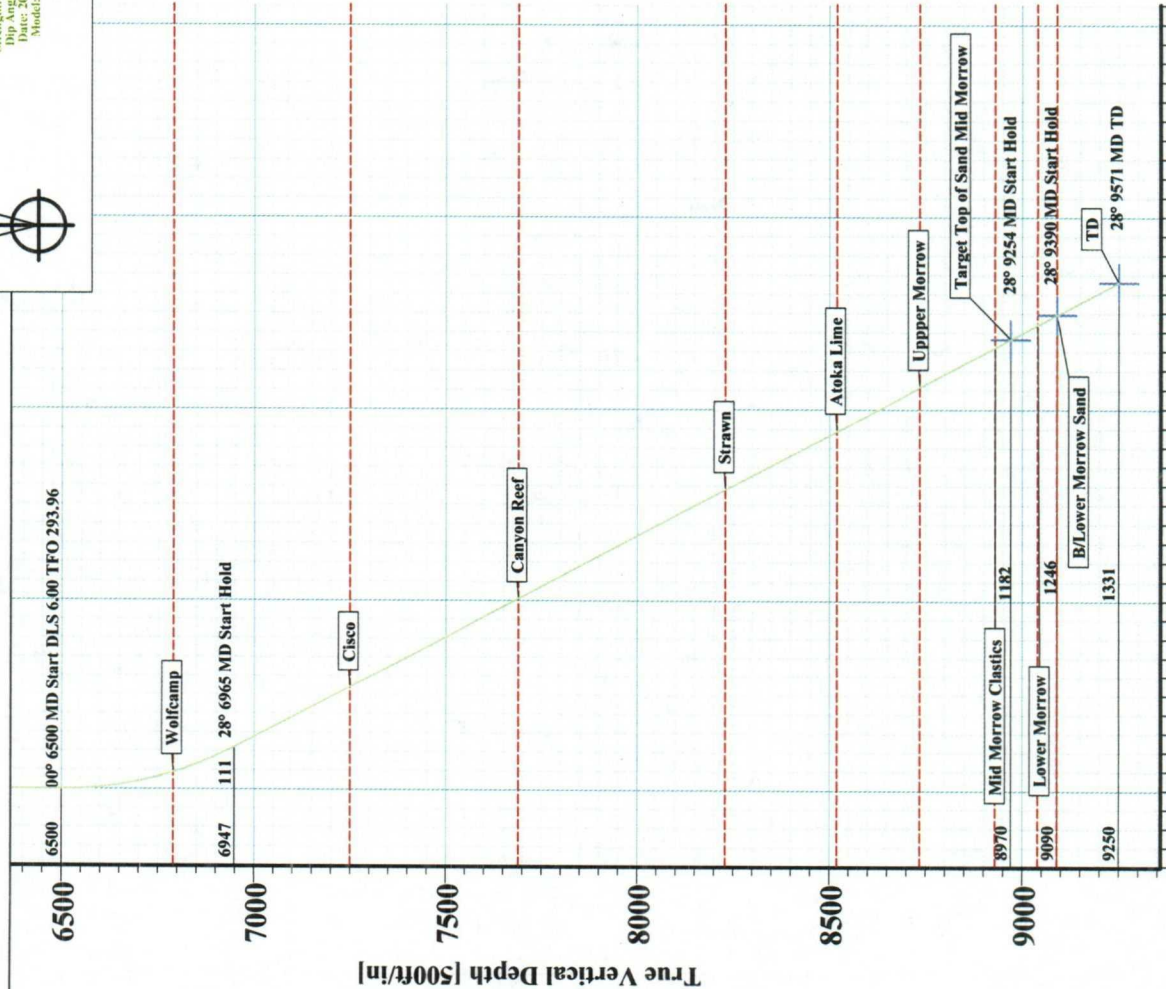
Magnetic Field
Strength: 495.0nT
Declination: 11.13°
Dip: 20.05-04.13°
Model: IGR2005

WELL DETAILS

Name	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
Monte Carlo Federal Com #1	0.00	0.00	646613.90	501994.00	32°46'39.479N	104°19'36.644W	N/A

TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape
LL	3380.00	0.00	0.00	646613.90	501994.00	32°46'39.479N	104°19'36.644W	Polygon
Target Top of Sand Mid Morrow	8970.00	480.20	-1080.40	647094.10	500911.60	32°46'44.231N	104°19'49.299W	Point
Upper Morrow	9090.00	480.20	-1080.40	647094.10	500911.60	32°46'44.231N	104°19'49.299W	Point
TD	9250.00	540.42	-1215.89	647154.32	500778.11	32°46'44.877N	104°19'50.880W	Point



West(-)/East(+) [500ft/in]

Sec	MD	Inc	Az	TVD	+N/S	+E/W	Dip deg	TFace	A/Sce	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	
3	6965.04	27.90	293.96	6946.57	480.20	-1080.40	6.00	293.96	111.01	
4	8970.00	27.90	293.96	8970.00	480.20	-1080.40	6.00	293.96	111.01	Target Top of Sand Mid Morrow
5	9090.00	27.90	293.96	9090.00	480.20	-1080.40	6.00	293.96	111.01	
6	9571.13	27.90	293.96	9250.00	540.42	-1215.89	0.00	0.00	1330.58	TD

Scientific Drilling Planning Report

Company: Unit Petroleum Co.
Field: Monte Carlo
Site: Eddy County, NM
Well: Monte Carlo Fedral Com #1
Wellpath: 1

Date: 2005-07-27 **Time:** 14:14:51 **Page:** 1
Co-ordinate(NE) Reference: Well: Monte Carlo Fedral Com #1
Vertical (TVD) Reference: GL 3363+17= 3380.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Azi)
Plan: Plan #1

Page: 1

Field: Monte Carlo

Map System:US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Eddy County, NM

Site Position:	Northing:	646613.90 ft	Latitude:	32 46 39.479 N
From: Map	Easting:	501994.00 ft	Longitude:	104 19 36.644 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	0.00 ft		Grid Convergence:	0.00 deg

Well: Monte Carlo Fedral Com #1

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	646613.90 ft	Latitude:	32	46	39.479 N
	+E/-W	0.00 ft	Easting :	501994.00 ft	Longitude:	104	19	36.644 W
Position Uncertainty:		0.00 ft						

Wellpath: 1

Drilled From: **Surface**

Current Datum:	GL 3363+17=	Height	3380.00 ft	Above System Datum:	Mean Sea Level
Magnetic Data:	2005-04-13			Declination:	8.70 deg
Field Strength:	49519 nT			Mag Dip Angle:	60.72 deg
Vertical Section:	Depth From (TVD)	+N/-S		+E/-W	Direction
	ft	ft		ft	deg
	0.00	0.00		0.00	293.96

Plan: Plan #1

Date Composed: 2005-04-13

Principal: Yes

Version: 1
Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6965.04	27.90	293.96	6946.87	45.09	-101.45	6.00	6.00	-14.20	293.96	
9254.30	27.90	293.96	8970.00	480.20	-1080.40	0.00	0.00	0.00	0.00	Target Top of Sand Mid Mo
9390.08	27.90	293.96	9090.00	506.01	-1138.47	0.00	0.00	0.00	0.00	B/Lower Morrow
9571.13	27.90	293.96	9250.00	540.42	-1215.89	0.00	0.00	0.00	0.00	TD

Section 1 : Start Hold

[illegible]

Scientific Drilling

Planning Report

Company: Unit Petroleum Co.
Field: Monte Carlo
Site: Eddy County, NM
Well: Monte Carlo Fedral Com #1
Wellpath: 1

Date: 2005-07-27 **Time:** 14:14:51
Co-ordinate(NE) Reference: Well: Monte Carlo Fedral Com #1
Vertical (TVD) Reference: GL 3363+17= 3380.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Azi)
Plan: Plan #1

Page: 2

Section 1 : Start Hold

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	TFO deg
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3380.00	0.00	0.00	3380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start DLS 6.00 TFO 293.96

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	TFO deg
6550.00	3.00	293.96	6549.98	0.53	-1.20	1.31	6.00	6.00	0.00	0.00
6600.00	6.00	293.96	6599.82	2.12	-4.78	5.23	6.00	6.00	0.00	0.00
6650.00	9.00	293.96	6649.38	4.78	-10.74	11.76	6.00	6.00	0.00	0.00
6700.00	12.00	293.96	6698.54	8.48	-19.07	20.87	6.00	6.00	0.00	0.00
6750.00	15.00	293.96	6747.15	13.22	-29.73	32.54	6.00	6.00	0.00	0.00
6794.65	17.68	293.96	6790.00	18.32	-41.21	45.10	6.00	6.00	0.00	0.00
6800.00	18.00	293.96	6795.09	18.98	-42.71	46.74	6.00	6.00	0.00	0.00
6850.00	21.00	293.96	6842.22	25.76	-57.96	63.43	6.00	6.00	0.00	0.00
6900.00	24.00	293.96	6888.40	33.53	-75.44	82.56	6.00	6.00	0.00	0.00
6950.00	27.00	293.96	6933.53	42.27	-95.11	104.08	6.00	6.00	0.00	0.00

Scientific Drilling Planning Report

Company: Unit Petroleum Co.
Field: Monte Carlo
Site: Eddy County, NM
Well: Monte Carlo Fedral Com #1
Wellpath: 1

Date: 2005-07-27 Time: 14:14:51 Pa
Co-ordinate(NE) Reference: Well: Monte Carlo Fedral Com #1
Vertical (TVD) Reference: GL 3363+17= 3380.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Azi)
Plan: Plan #1

Page: 3

Section 2 : Start DLS 6.00 TFO 293.96

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	TFO deg
6965.04	27.90	293.96	6946.87	45.09	-101.45	111.01	6.00	6.00	0.00	0.00

Section 3 : Start Hold

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	TFO deg
7000.00	27.90	293.96	6977.77	51.73	-116.40	127.37	0.00	0.00	0.00	0.00
7100.00	27.90	293.96	7066.15	70.74	-159.16	174.17	0.00	0.00	0.00	0.00
7200.00	27.90	293.96	7154.52	89.75	-201.92	220.97	0.00	0.00	0.00	0.00
7300.00	27.90	293.96	7242.90	108.75	-244.68	267.76	0.00	0.00	0.00	0.00
7308.04	27.90	293.96	7250.00	110.28	-248.12	271.53	0.00	0.00	0.00	0.00
7400.00	27.90	293.96	7331.27	127.76	-287.45	314.56	0.00	0.00	0.00	0.00
7500.00	27.90	293.96	7419.64	146.77	-330.21	361.36	0.00	0.00	0.00	0.00
7600.00	27.90	293.96	7508.02	165.77	-372.97	408.15	0.00	0.00	0.00	0.00
7700.00	27.90	293.96	7596.39	184.78	-415.74	454.95	0.00	0.00	0.00	0.00
7800.00	27.90	293.96	7684.77	203.79	-458.50	501.75	0.00	0.00	0.00	0.00
7805.92	27.90	293.96	7690.00	204.91	-461.03	504.52	0.00	0.00	0.00	0.00
7900.00	27.90	293.96	7773.14	222.79	-501.26	548.54	0.00	0.00	0.00	0.00
8000.00	27.90	293.96	7861.52	241.80	-544.02	595.34	0.00	0.00	0.00	0.00
8100.00	27.90	293.96	7949.89	260.81	-586.79	642.14	0.00	0.00	0.00	0.00
8200.00	27.90	293.96	8038.27	279.81	-629.55	688.93	0.00	0.00	0.00	0.00
8300.00	27.90	293.96	8126.64	298.82	-672.31	735.73	0.00	0.00	0.00	0.00
8400.00	27.90	293.96	8215.02	317.83	-715.08	782.53	0.00	0.00	0.00	0.00
8416.95	27.90	293.96	8230.00	321.05	-722.33	790.46	0.00	0.00	0.00	0.00
8500.00	27.90	293.96	8303.39	336.83	-757.84	829.32	0.00	0.00	0.00	0.00
8600.00	27.90	293.96	8391.77	355.84	-800.60	876.12	0.00	0.00	0.00	0.00
8700.00	27.90	293.96	8480.14	374.85	-843.37	922.92	0.00	0.00	0.00	0.00
8745.10	27.90	293.96	8520.00	383.42	-862.65	944.02	0.00	0.00	0.00	0.00
8800.00	27.90	293.96	8568.51	393.85	-886.13	969.71	0.00	0.00	0.00	0.00
8900.00	27.90	293.96	8656.89	412.86	-928.89	1016.51	0.00	0.00	0.00	0.00
8988.39	27.90	293.96	8735.00	429.66	-966.69	1057.87	0.00	0.00	0.00	0.00
9000.00	27.90	293.96	8745.26	431.87	-971.65	1063.31	0.00	0.00	0.00	0.00
9100.00	27.90	293.96	8833.64	450.87	-1014.42	1110.10	0.00	0.00	0.00	0.00
9200.00	27.90	293.96	8922.01	469.88	-1057.18	1156.90	0.00	0.00	0.00	0.00
9209.04	27.90	293.96	8930.00	471.60	-1061.04	1161.13	0.00	0.00	0.00	0.00
9254.30	27.90	293.96	8970.00	480.20	-1080.40	1182.31	0.00	0.00	0.00	0.00

$$\begin{array}{r} 21 \\ 2385 \\ - 109 \\ \hline 2276 \end{array}$$

SL

$$\begin{array}{r} 2385 \text{ FNL} \\ 271 \text{ FBL} \end{array}$$

$$\begin{array}{r} 2385 \\ 109 \\ \hline 2494 \text{ FNL} \end{array}$$

$$\begin{array}{r} 271 \\ 245 \\ \hline 516 \text{ FBL} \end{array}$$

Section 4 : Start Hold

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	TFO deg
9300.00	27.90	293.96	9010.39	488.89	-1099.94	1203.70	0.00	0.00	0.00	0.00
9333.51	27.90	293.96	9040.00	495.25	-1114.27	1219.38	0.00	0.00	0.00	0.00
9390.08	27.90	293.96	9090.00	506.01	-1138.47	1245.85	0.00	0.00	0.00	0.00

Section 5 : Start Hold

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	TFO deg
9400.00	27.90	293.96	9098.76	507.89	-1142.71	1250.49	0.00	0.00	0.00	0.00
9500.00	27.90	293.96	9187.14	526.90	-1185.47	1297.29	0.00	0.00	0.00	0.00
9571.13	27.90	293.96	9250.00	540.42	-1215.89	1330.58	0.00	0.00	0.00	0.00

Targets

[illegible]

Scientific Drilling Planning Report

Company: Unit Petroleum Co.
Field: Monte Carlo
Site: Eddy County, NM
Well: Monte Carlo Fedral Com #1
Wellpath: 1

Date: 2005-07-27 **Time:** 14:14:51 **Page:** 4
Co-ordinate(NE) Reference: Well: Monte Carlo Fedral Com #1
Vertical (TVD) Reference: GL 3363+17= 3380.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Azi)
Plan: Plan #1

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec	← Longitude → Deg Min Sec
Target Top of Sand Mid Morrow			8970.00	480.20	-1080.40	647094.10	500913.60	32 46 44.231 N	104 19 49.299 W
-Plan hit target									
B/Lower Morrow			9090.00	506.10	-1138.47	647120.00	500855.53	32 46 44.487 N	104 19 49.979 W
-Plan hit target									
TD			9250.00	540.42	-1215.89	647154.32	500778.11	32 46 44.827 N	104 19 50.886 W
-Plan hit target									

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
6794.65	6790.00	Wolfcamp		0.00	0.00
7308.04	7250.00	Cisco		0.00	0.00
7805.92	7690.00	Canyon Reef		0.00	0.00
8416.95	8230.00	Strawn		0.00	0.00
8745.10	8520.00	Atoka Lime		0.00	0.00
8988.39	8735.00	Uppper Morrow		0.00	0.00
9209.04	8930.00	Mid Morrow Clastics		0.00	0.00
9333.51	9040.00	Lower Morrow		0.00	0.00
9390.08	9090.00	B/Lower Morrow Sand		0.00	0.00

S-L.
 2385' FNL 271' FEL

2385
 - 540
 1845' FNL

271' FEL
 1216
 1487' FEL