

DATE IN 11-12-05	SUSPENSE	ENGINEER STOBER	LOGGED IN 7-13-05	TYPE NSL	APP NO. P50M0519440942
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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.

JAMES BRUCE
 PO BOX 1056
 SANTA FE NM 87504
 Print or Type Name

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

Signature

Title

Date

e-mail Address

2005 JUL 12 AM 10 33

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

July 12, 2005

Hand delivered

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

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>	1905 feet FNL & 1350 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.

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.)

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.

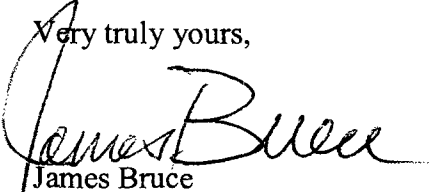
Attached as Exhibit E is an isopach of the primary zone. The bottomhole location is situated to be in the middle of the main pay zone. Tight or non-productive wells immediately to the east and west stress the need to hit the thickest part of the pay, and the proposed location minimizes the length and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

A copy of the directional drilling plan is attached as Exhibit F. The top of the Atoka is approximately 8675 feet, and the bottomhole location is 9020 feet. Therefore the two main zones will be at least 990 feet from the east line of Section 1, leaving the wellbore unorthodox only in a north-south direction. Because the location is internal to the well unit, notice of this application has not been given to anyone.

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,



James Bruce

Attorney for Unit Petroleum Company

REC'D JUN 21 2005

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

reverse side)

UNIT 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
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

UNIT PETROLEUM COMPANY

(MATT DOFFER 432-685-9020)

3. ADDRESS AND TELEPHONE NO.

(432-685-9020)
407 NORTH BIG SPRING ST. SUITE 101 MIDLAND, TEXAS 79701

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

10. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

1305'

16. NO. OF ACRES IN LEASE

-

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

13. 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
17 1/2"	H-40 13 3/8"	48#	300'	450 Sx. circulate cement TS
12 1/2"	J-55 9 5/8"	36#	1500'	800 Sx. " " "
8 3/4"	N-80 5 1/2"	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 17 1/2" 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, + 1/2# Flocele/Sx. Circulate cement to surface.
3. Drill 12 1/2" 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, + 1/2# Flocele/Sx. Circulate cement to surface.
4. Drill 8 3/4" hole to 9290' MD (9010' TVD) Run and set 9290' of 5 1/2" 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 be
CONDITIONS OF APPROVAL IF ANY:

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

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

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	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

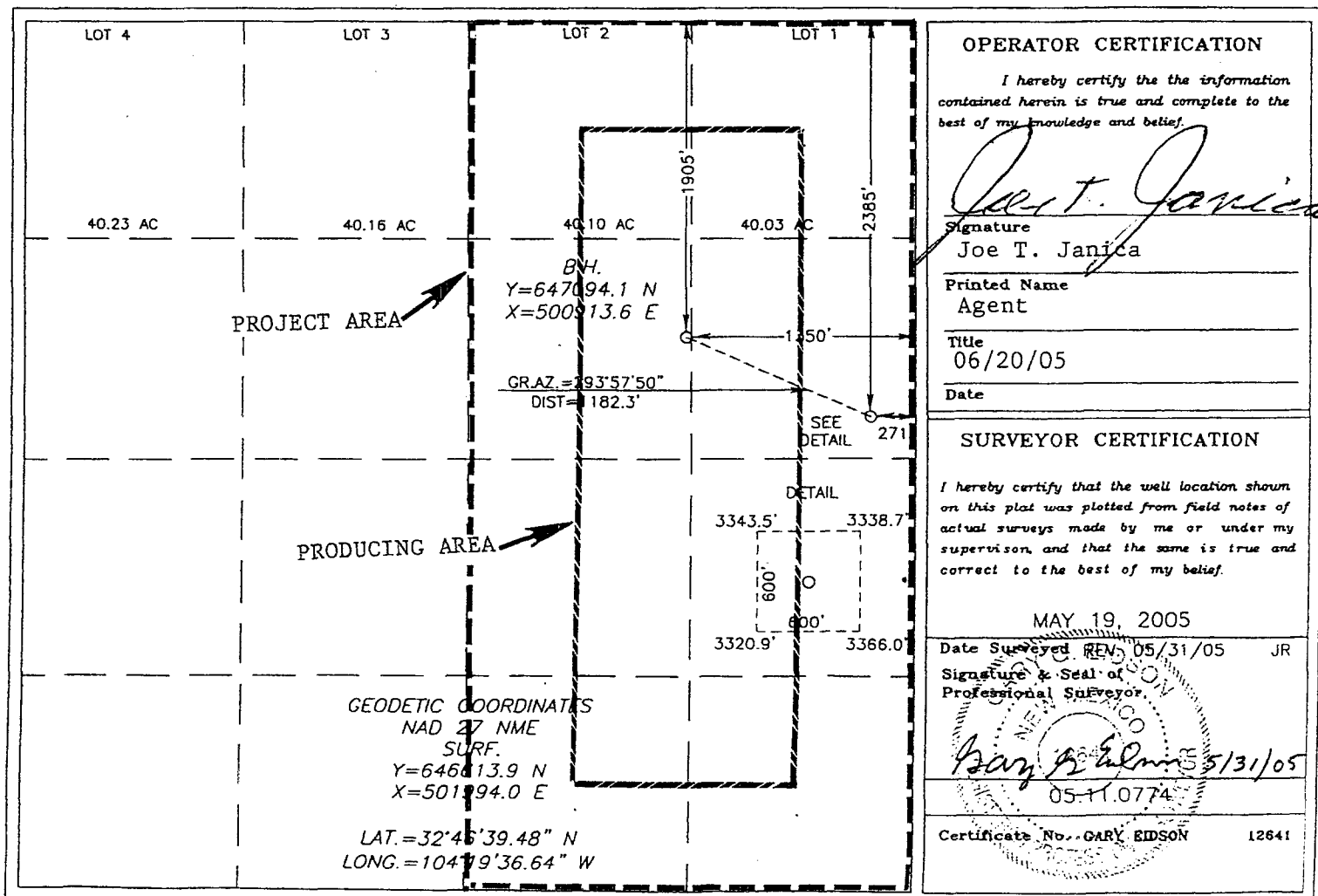


EXHIBIT "A"

1625 N. French Dr., Hobbs, NM 83240

District II

1301 W. Grand Avenue, Artesia, NM 83210

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 API Number 30 -
Property Code	Property Name MONTE CARLO FEDERAL COM.	Well No. 1
Proposed Pool 1 ATOKA PENN PRO GAS (70800)		Proposed Pool 2

⁷ Surface Location

UL or lot no. H	Section 1	Township 18S	Range 26E	Lot 1/4	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 1/4	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

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3363'
¹⁶ Multiple NO	¹⁷ Proposed Depth MD-9290' TVD-9010'	¹⁸ Formation ATOKA	¹⁹ Contractor UNKNOWN	²⁰ Spud Date WHEN APPROVED
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Lincr. Synthetic ☒ 12 mills 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.

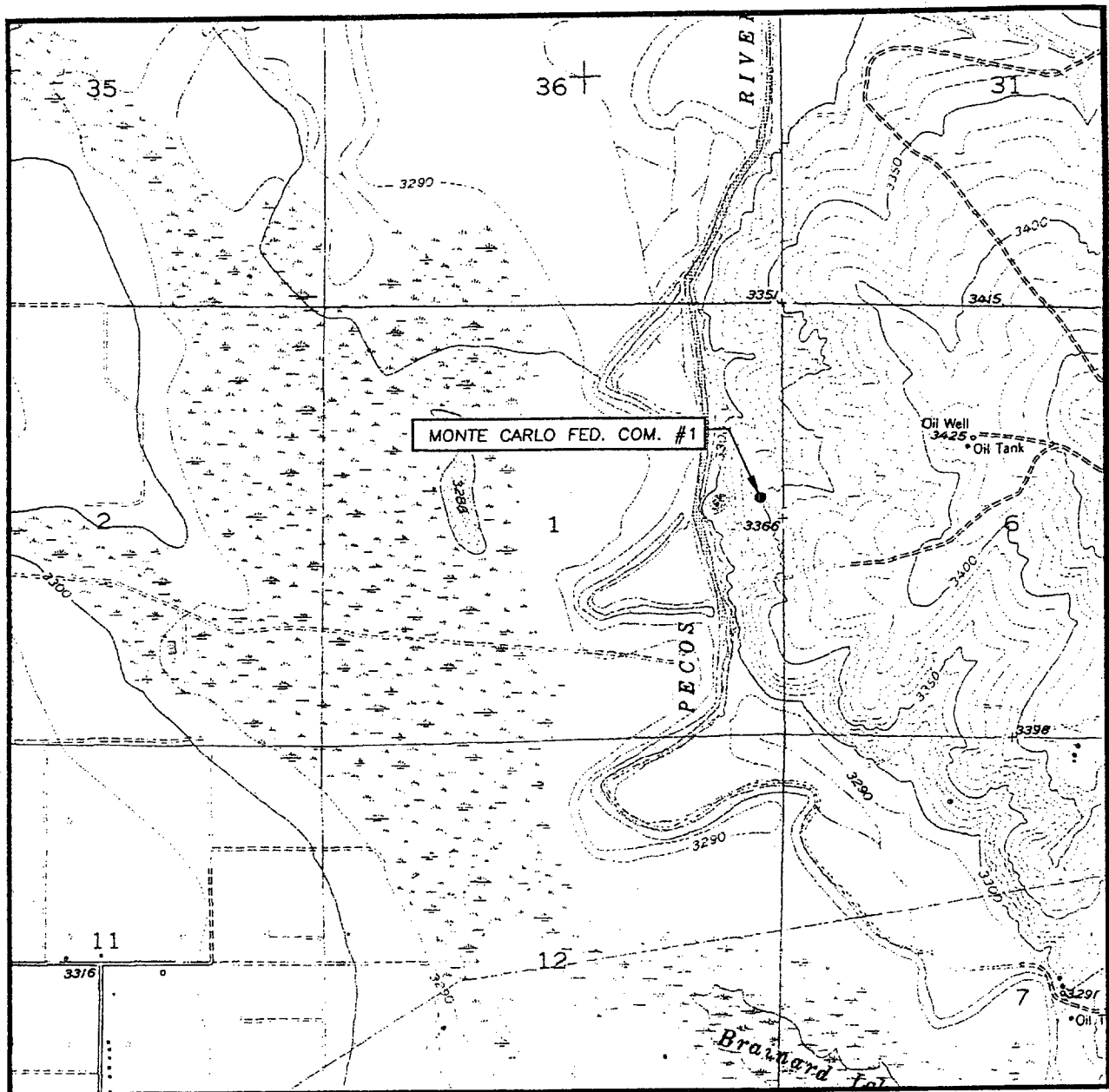
SEE ATTACHED SHEET



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 NMOC 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 ☐	

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'

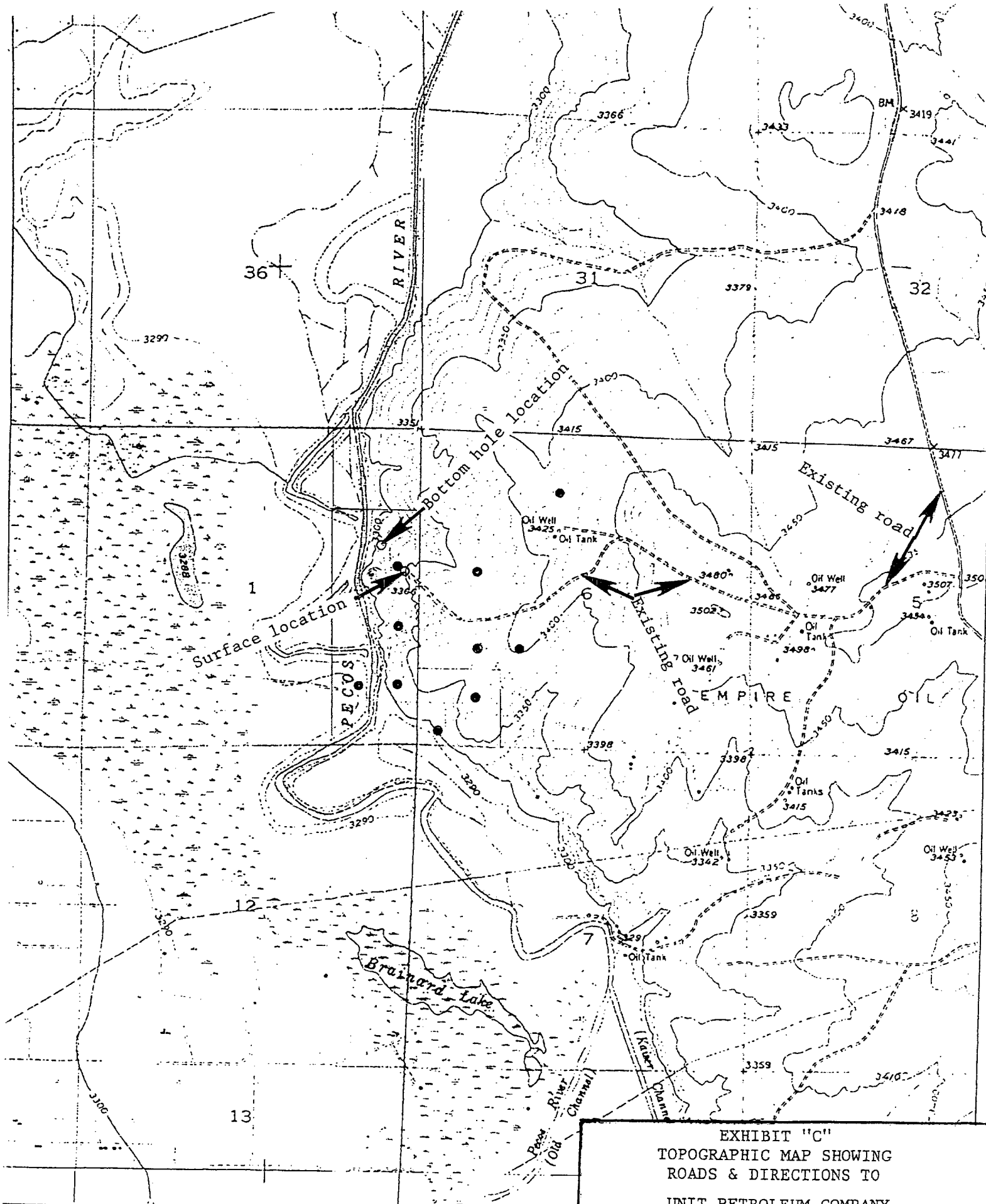
OPERATOR UNIT PETROLEUM COMPANY

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

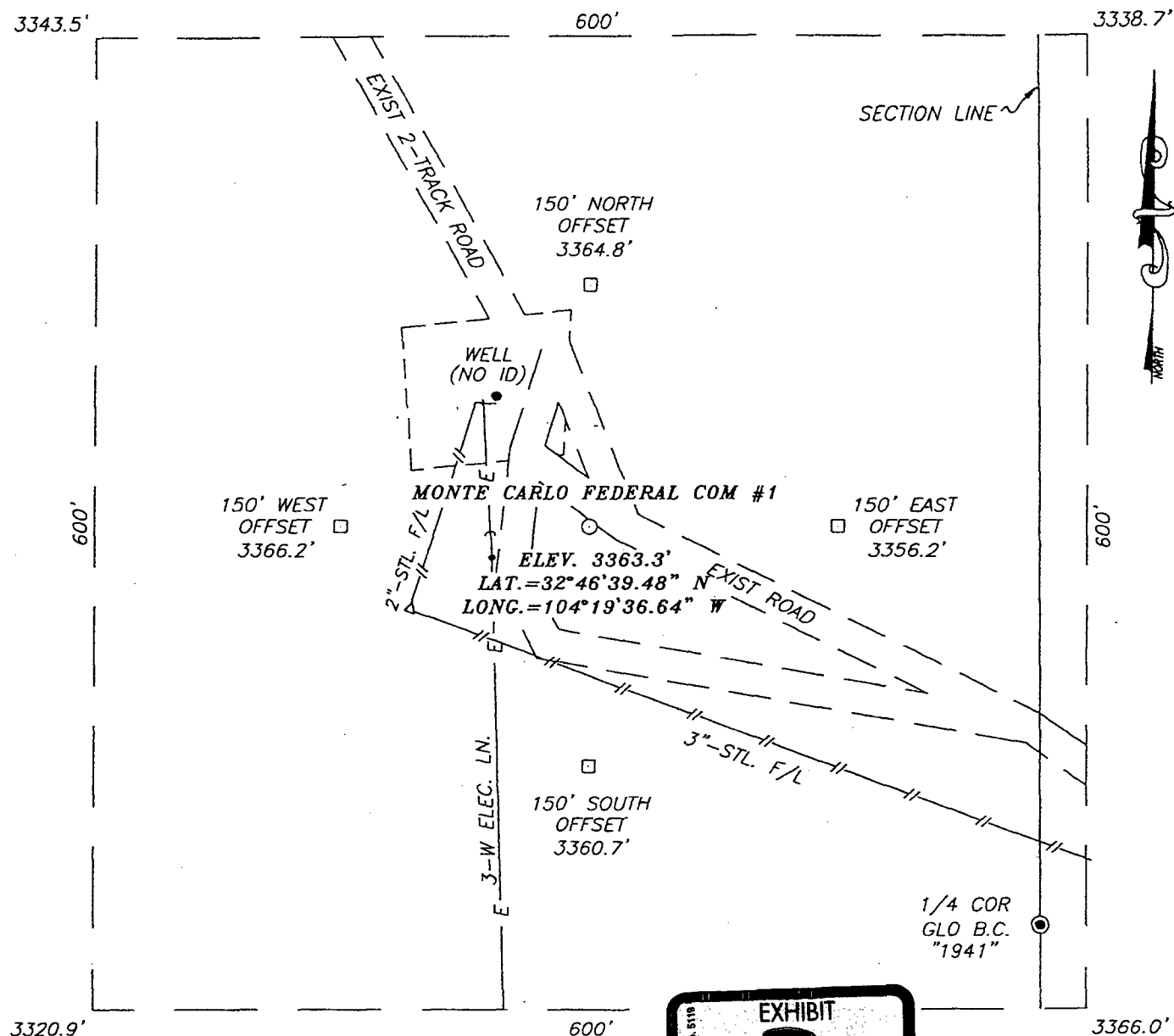




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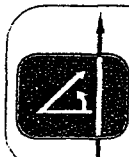
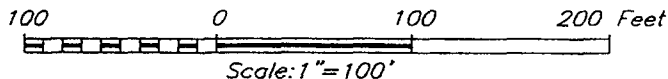
EXHIBIT "C"
 TOPOGRAPHIC MAP SHOWING
 ROADS & DIRECTIONS TO
 UNIT PETROLEUM COMPANY
 MONTE CARLO FEDERAL COM. # 1
 SHL UNIT "H" SECTION 1
 BHL UNIT "G" SECTION 1
 T18S-R26E EDDY CO. NM

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.

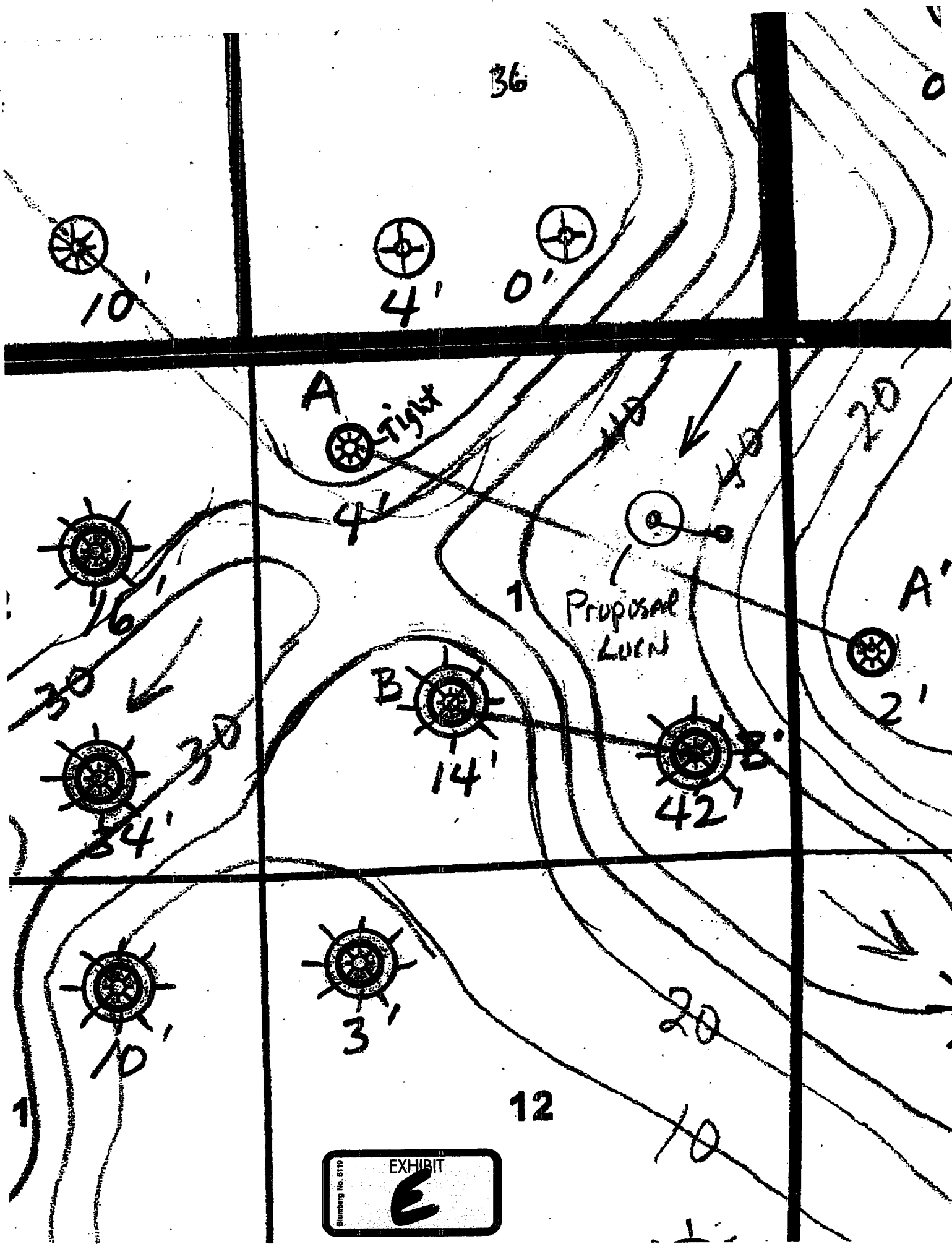


PROVIDING SURVEYING SERVICES
 SINCE 1948
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

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'



Blumberg No. 5119
EXHIBIT
E



Scientific Drilling Planning Report

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

Date: 2005-08-01 Time: 09:54:07 Page: 1
Co-ordinate(NE) Reference: Well: Monte Carlo Fedral Com #1
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Az)
Plan: Plan #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: lgr2005

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

Current Datum: SITE Height 0.00 ft
Magnetic Data: 2005-04-13
Field Strength: 48519 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 293.96
Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.70 deg
Mag Dip Angle: 80.72 deg
+E/-W Direction
ft deg

Plan: Plan #1

Date Composed: 2005-04-13
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	
6957.36	27.44	293.96	6940.08	43.64	-98.19	6.00	6.00	-14.44	293.96	
9289.72	27.44	293.96	9010.00	480.20	-1080.40	0.00	0.00	0.00	0.00	BHL3

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

Blumberg No. 5119

EXHIBIT

F



Scientific Drilling Planning Report

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

Date: 2005-06-01 Time: 09:54:07 Page: 2
Co-ordinate(NE) Reference: Well: Monte Carlo Fedral Corn #1
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Az)
Plan: Plan #1

Section 1 : Start Hold

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
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
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	Azlm 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	6549.96	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
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
6957.36	27.44	293.96	6940.08	43.64	-98.19	107.45	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 Federal Com #1
Wellpath: 1

Date: 2005-06-01 Time: 09:54:07 Page: 3
Co-ordinate(N/E) Reference: Well: Monte Carlo Federal Com #1
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,293.96Az)
Plan: Plan #1

Section 3 : Start Hold

MD ft	Incl deg	Asm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Bulld deg/100ft	Turn deg/100ft	TFO deg
7000.00	27.44	293.96	6977.92	51.62	-116.14	127.10	0.00	0.00	0.00	0.00
7100.00	27.44	293.96	7066.66	70.34	-158.26	173.18	0.00	0.00	0.00	0.00
7200.00	27.44	293.96	7155.41	89.06	-200.37	219.27	0.00	0.00	0.00	0.00
7300.00	27.44	293.96	7244.16	107.77	-242.48	265.35	0.00	0.00	0.00	0.00
7400.00	27.44	293.96	7332.91	126.48	-284.59	311.44	0.00	0.00	0.00	0.00
7500.00	27.44	293.96	7421.66	145.21	-326.70	357.52	0.00	0.00	0.00	0.00
7600.00	27.44	293.96	7510.40	163.93	-368.82	403.61	0.00	0.00	0.00	0.00
7700.00	27.44	293.96	7599.15	182.64	-410.93	449.69	0.00	0.00	0.00	0.00
7800.00	27.44	293.96	7687.90	201.36	-453.04	495.78	0.00	0.00	0.00	0.00
7900.00	27.44	293.96	7776.65	220.08	-495.15	541.86	0.00	0.00	0.00	0.00
8000.00	27.44	293.96	7865.40	238.80	-537.27	587.94	0.00	0.00	0.00	0.00
8100.00	27.44	293.96	7954.14	257.51	-579.38	634.03	0.00	0.00	0.00	0.00
8200.00	27.44	293.96	8042.89	276.23	-621.49	680.11	0.00	0.00	0.00	0.00
8300.00	27.44	293.96	8131.64	294.95	-663.60	726.20	0.00	0.00	0.00	0.00
8400.00	27.44	293.96	8220.39	313.67	-705.72	772.28	0.00	0.00	0.00	0.00
8500.00	27.44	293.96	8309.14	332.38	-747.83	818.37	0.00	0.00	0.00	0.00
8600.00	27.44	293.96	8397.88	351.10	-789.94	864.45	0.00	0.00	0.00	0.00
8700.00	27.44	293.96	8486.63	369.82	-832.05	910.54	0.00	0.00	0.00	0.00
8800.00	27.44	293.96	8575.38	388.54	-874.17	956.62	0.00	0.00	0.00	0.00
8900.00	27.44	293.96	8664.13	407.25	-916.28	1002.71	0.00	0.00	0.00	0.00
9000.00	27.44	293.96	8752.88	425.97	-958.39	1048.79	0.00	0.00	0.00	0.00
9100.00	27.44	293.96	8841.62	444.69	-1000.50	1094.88	0.00	0.00	0.00	0.00
9200.00	27.44	293.96	8930.37	463.41	-1042.62	1140.96	0.00	0.00	0.00	0.00
9289.72	27.44	293.96	9010.00	480.20	-1080.40	1182.31	0.00	0.00	0.00	0.00



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

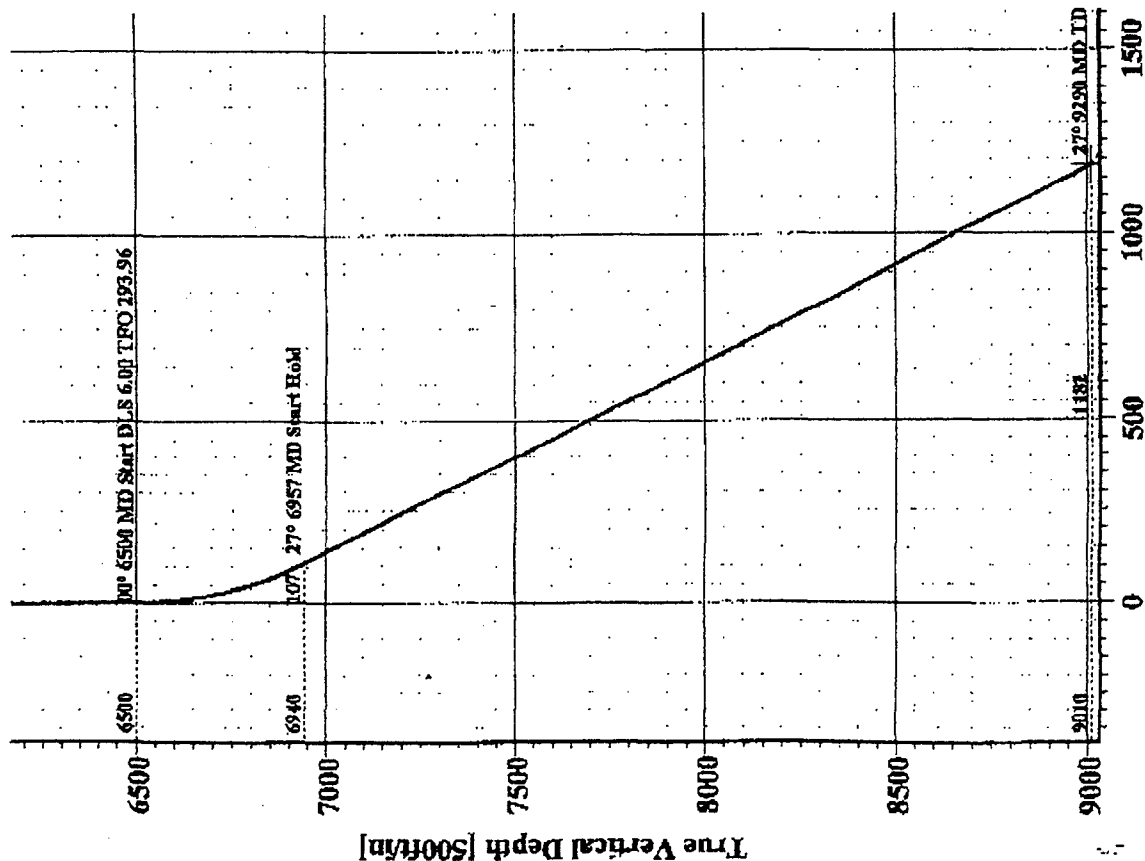
Unit Petroleum Co.

SECTION DETAILS									
Sec	MD	Sec	Ad	TYD	+N/-S	+E/-W	DLQ	TPR	VRoc
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00
3	8912.6	17.44	203.96	6940.08	41.64	-98.19	6.00	293.96	187.43
4	9399.73	31.44	203.96	9010.00	486.30	-1080.40	0.00	0.00	1182.31

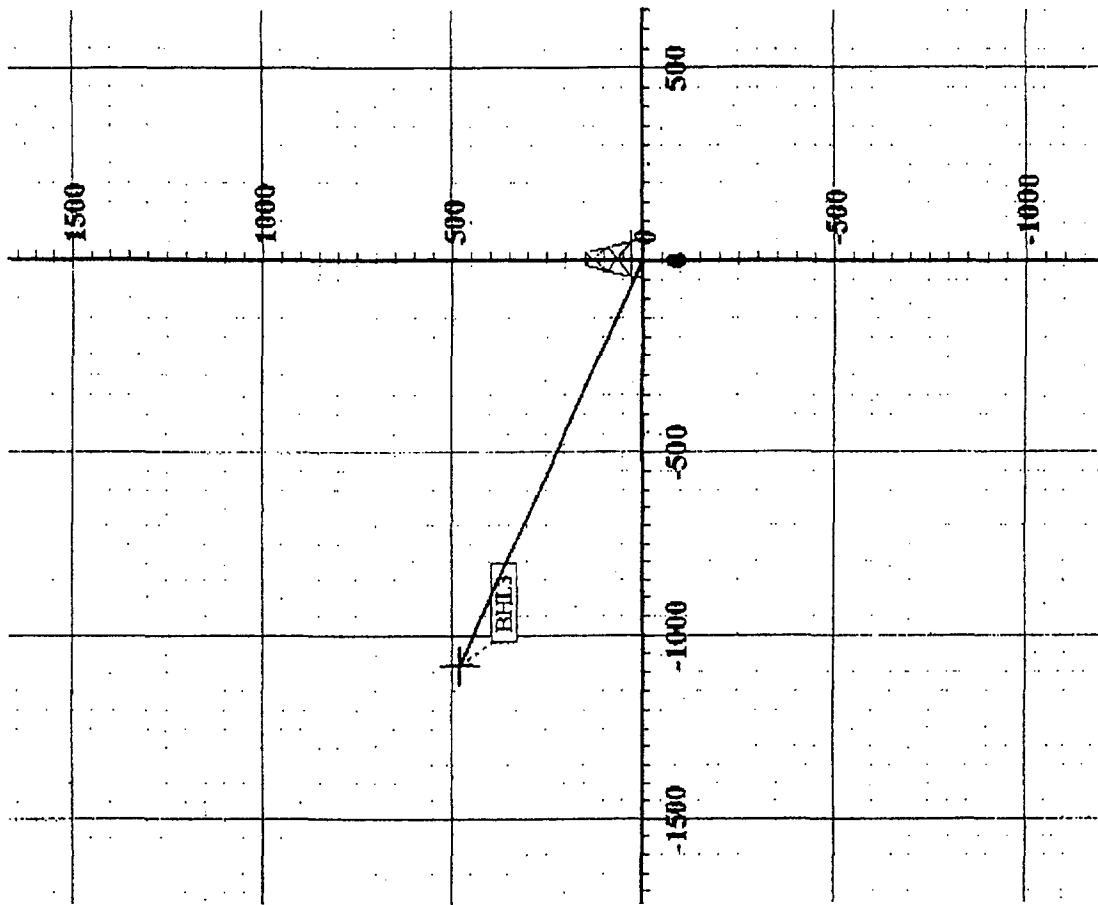
Actuals to Old North
True North 8.49°
Magnetic North 8.49°
Magnetic Decl
Surveyed (1911)
True Azimuth 08.07°
Decl. 1911-2011
North 8.49°

WELL DETAILS

W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W
W	W	W	W	W	W	W	W	W	W



Vertical Section at 293.96° [500ft/in]



West(-)/East(+) [200ft/in]

South(-)/North(+) [200ft/in]