

District I
1625 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

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

Form C-101
May 27, 2004

RECEIVED
JUL 22 2005
OCD-ARTESIA

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address LCX ENERGY, LLC. 110 NORTH MARTENFELD SUITE 200 MIDLAND, TEXAS 79701		2 OGRID Number 218885
3 Property Code 34975	4 Property Name 1724 ROSS	5 API Number 30-015-34235
6 Proposed Pool 1 Wildcat - WOLFCAMP		7 Well No. 121
8 Proposed Pool 2		

7 Surface Location

UL or lot no. 0	Section 12	Township 17S	Range 24E	Lot Idn	Feet from the 660'	North/South line SOUTH	Feet from the 1880'	East/West line EAST	County EDDY
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	------------------------	------------------------	----------------

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no. B	Section 12	Township 17S	Range 24E	Lot Idn	Feet from the 660'	North/South line NORTH	Feet from the 1880'	East/West line EAST	County EDDY
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	------------------------	------------------------	----------------

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 3669'
16 Multiple NO	17 Proposed Depth MD-8790' TVD-4940'	18 Formation WOLFCAMP	19 Contractor BIG DOG DRILLING	20 Spud Date WHEN APPROVED
Depth to Groundwater 100'+		Distance from nearest fresh water well 3/4 Mi?		Distance from nearest surface water COTTON WOOD CREEK 3+ Mi North
Pit: Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 15M bbls Drilling Method: Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				
Closed-Loop System ☐				

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#	350'	400 Sx.	Surface
12 1/4"	9 5/8"	40#	1250'	700 Sx.	Surface
8 3/4"	7"	26#	5000'	700 Sx.	900' FS
6 1/8"	4 1/2"	11.6#	MD-8790 TVD4940'	425 Sx.	4390' Top Liner

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.

SEE ATTACHED SHEET

NOTIFY OCD OF SPUD & TIME TO
WITNESS CEMENTING OF
SURFACE & INTERMEDIATE
CASING

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines. ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed name: Joe T. Janica

Title: Agent

E-mail Address:

Date: 07/21/05

Phone: 505-391-8503

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Conditions of Approval Attached ☐

JUL 26 2005
JUL 26 2005

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 350'. Run and set 350' of 13 3/8" 48# H-40 ST&C casing. Cement with 400 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. circulate cement to surface.
3. Drill 12¼" hole to 1250'. Run and set 1250' of 9 5/8" 40# J-55 ST&C casing. Cement with 500 Sx. of Class "C" cement + 2% CaCl, + 5% NaCl, + 6% Bentonite, + ¼# Flocele/Sx, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. Circulate cement to surface.
4. Drill 8 3/4" hole to 5000'. Run and set 5000' of 7" 26# L-80 LT&C casing. Cement with 500 Sx. of Class "C" cement + 6% Bentonite, + 5% Salt, + ¼# Flocele/Sx., tail in with 200 Sx. of Class "C" cement + 2% CaCl, estimate to- of cement 900' from surface.
5. Run in hole with CIBP on wireline and set at 4750'±. Run in hole with Whipstock set at 4690'± orient 180° South, Run in hole with mill and cut a window at 4690'±. Run in hole with 6 1/8" bit and bottom hole assembly to drill horizontal hole to TVD of 4940'±, MD of 8790±.
6. Run and set 4400' of 4½" 11.6# L-80 liner from 4390' to 8790'±. Cement with 425 Sx. of Class "C" Premium Plus cement + additives. Cement to top of liner.

There is no known presence of H₂S in this area, no H₂S has been encountered in any of the wells drilled in this area. The Bureau of Land Management does not have any record of H₂S being present there.

Joel Janice

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		WOLFCAMP
Property Code	Property Name	Well Number
	1724 ROSS	121
OGRID No.	Operator Name	Elevation
218885	LCX ENERGY, LLC	3669' GR.

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	17 S	24 E		660	SOUTH	1880	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
B	12	17 S	24 E		660	NORTH	1880	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

NOTE:

- 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1983. Distances shown hereon are mean horizontal surface values.

PROJECT AREA →

PRODUCING AREA →

Plane Coordinate
X = 177,989.5
Y = 371,137.1

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Joe T. Janica

Printed Name

Agent

Title

07/21/05

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.

June 20, 2005

Date Surveyed

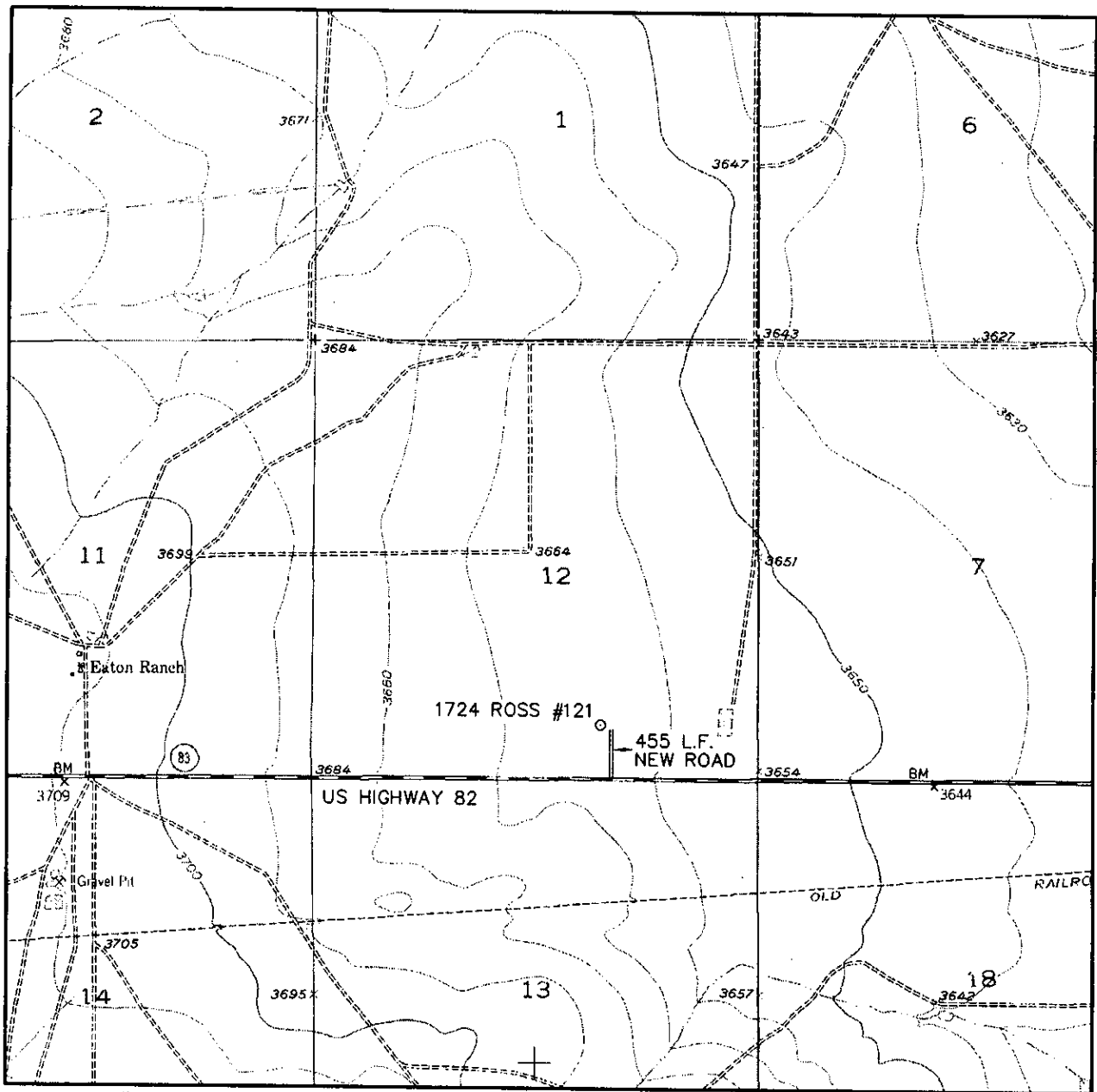
Signature & Seal of Professional Surveyor

JSR

W.O. Num. 2005-0526

Certificate No. MACON McDONALD 12185

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOPE SE - 20'

SEC. 12 TWP. 17-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1880' FEL & 660' FSL

ELEVATION 3669'

OPERATOR LCX ENERGY, LLC

LEASE 1724 ROSS

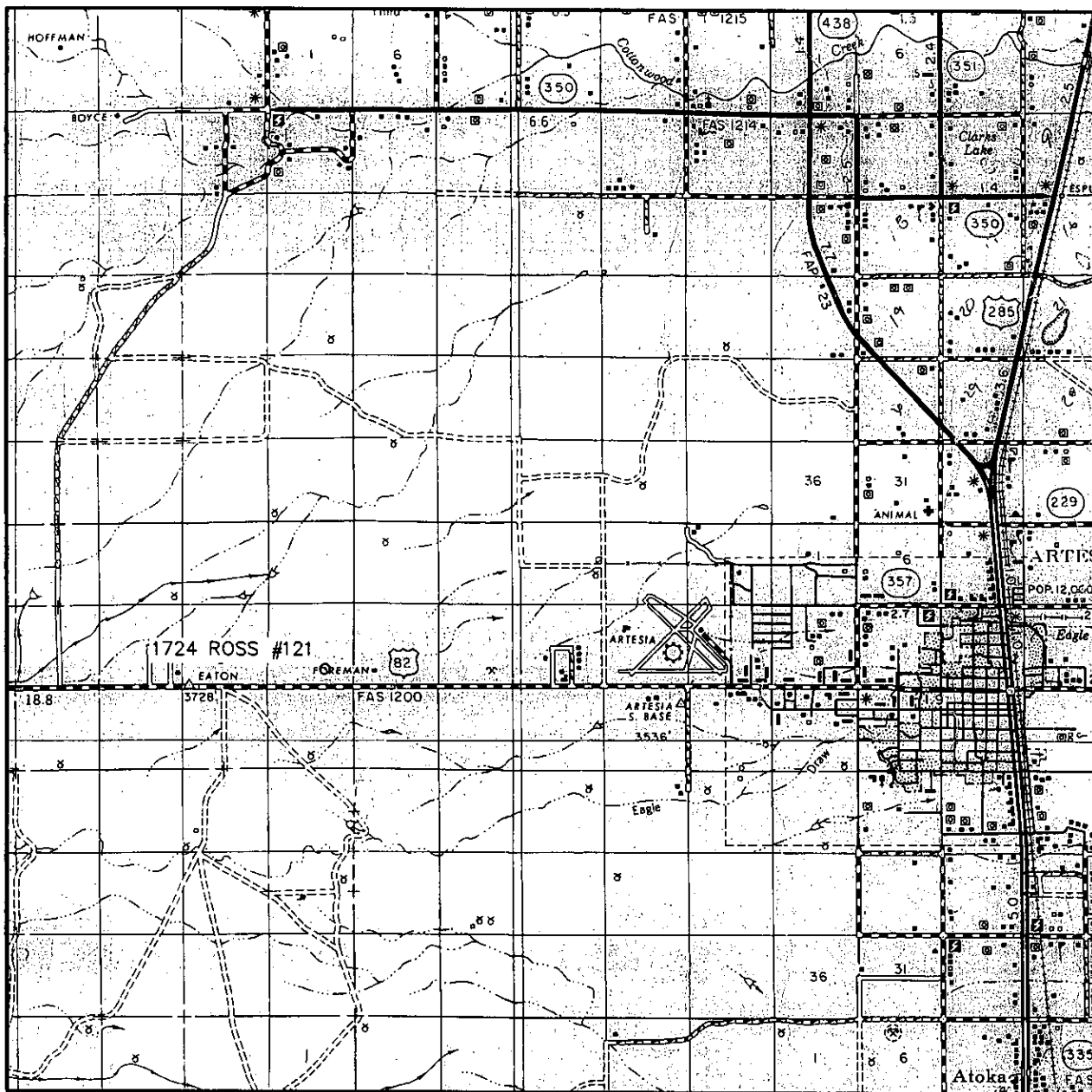
U.S.G.S. TOPOGRAPHIC MAP
HOPE NE, N.M.



WEST
COMPANY
of Midland, Inc.

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 12 TWP. 17-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 660' FSL & 1880' FEL

ELEVATION 3669'

OPERATOR LCX ENERGY, LLC

LEASE 1724 ROSS



**WEST
COMPANY**
of Midland, Inc.

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

SECTION 12, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M.
EDDY COUNTY NEW MEXICO

L-2005-0495

150' NORTH
OFFSET
Elev. 3669.1'
□

150' WEST
OFFSET □
Elev. 3669.6'

1724 ROSS #121
Gr. El. 3669'
Lat. 32°50'42.48" N
Long. 104°24'19.87" W
(NAD '83)

150' EAST
OFFSET □
Elev. 3668.1'

□
150' SOUTH
OFFSET
Elev. 3668.9'



DRIVING DIRECTIONS

FROM THE INTERSECTION OF US HIGHWAY 285 AND 82 IN ARTESIA, DRIVE WEST ALONG HIGHWAY 82 APPROXIMATELY 8.2 MILES. LOCATION IS NORTH OF HIGHWAY 82 660'.

PERENCO, LLC

1724 ROSS #121

Located 660' FSL & 1880' FEL, Section 12
Township 17 South, Range 24 E, N.M.P.M.
Eddy County, New Mexico

Drawn By: JSR	Date: June 22, 2005
Scale: 1"=100'	Field Book: 303 / 19-26
Revision Date:	Quadrangle: Espuela
W.O. No: 2005-0526	Dwg. No.: L-2005-0526

**WEST
COMPANY**
of Midland, Inc.

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

Proposal

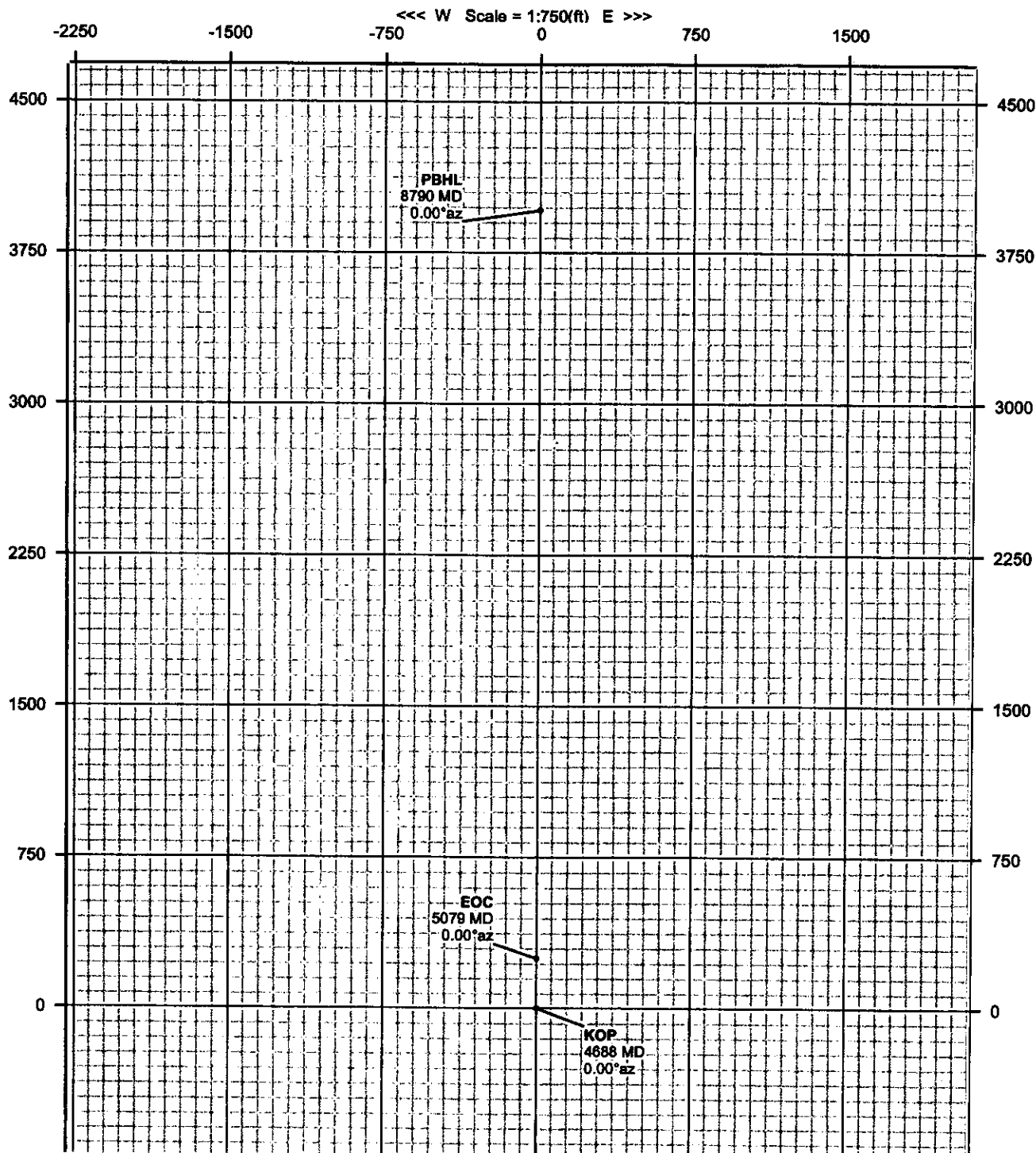


Report Date: June 6, 2005 Client: Endeavor Energy Field: Eddy County, NM Nad 83 Structure / Slot: 1724 Ross #121 / 1724 Ross #121 Well: 1724 Ross #121 Borehole: 1724 Ross #121 UWI/API#: Survey Name / Date: 1724 Ross 121_r1 / June 6, 2005 Tort / AHD / DOI / ERD ratio: 90.000° / 3960.00 ft / 5.802 / 0.802 Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet Location Lat/Long: N 32 27 58.536, W 104 17 54.240 Location Grid N/E Y/X: N 533358.051 NUS, E 552111.259 NUS Grid Convergence Angle: +0.01875232° Grid Scale Factor: 0.99990922	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 0.000° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 0.0 ft relative to Sea Bed / Ground Level Elevation: 0.000 ft relative to Magnetic Declination: 8.638° Total Field Strength: 49318.957 nT Magnetic Dip: 60.427° Declination Date: June 06, 2005 Magnetic Declination Model: IGRF 2005 North Reference: Grid North Total Corr Mag North -> Grid North: +8.619° Local Coordinates Referenced To: Well Head
--	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00M
KOP	4687.89	0.00	0.00	4687.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00M
	4700.00	2.79	0.00	4700.00	0.29	0.29	0.00	0.29	0.00	23.00	0.00M
	4800.00	25.79	0.00	4796.25	24.80	24.80	0.00	24.80	0.00	23.00	0.00G
	4900.00	48.79	0.00	4875.28	84.98	84.98	0.00	84.98	0.00	23.00	0.00G
	5000.00	71.79	0.00	4924.52	171.25	171.25	0.00	171.25	0.00	23.00	0.00G
EOC	5079.19	90.00	0.00	4937.00	249.11	249.11	0.00	249.11	0.00	23.00	0.00G
PBHL	8790.08	90.00	0.00	4937.00	3960.00	3960.00	0.00	3960.00	0.00	0.00	0.00G

Endeavor Energy

WELL		FIELD		STRUCTURE	
1724 Ross #121		Eddy County, NM Nad 83		1724 Ross #121	
Magnetic Parameters Model: IGRF 2006		Surface Location Lat: N32 27 58.530 Lon: W104 17 54.240		NADES New Mexico State Plane, Eastern Zone, US Feet Northing: 633398.05 RLRS Easting: 562111.20 RLRS Grid Conv: +0.01876282" Scale Fact: 0.9999992239	
Dip: 80.427° Mag Dec: +8.838°		Date: June 08, 2006 FB: 49318.0 nT		Miscellaneous Blk: 1724 Ross #121 Plan: 1724 Ross 121_v1 TVD Ref: FKIS (0.00 R above) Brw Date: Mon 02:00 AM June 08, 2006	



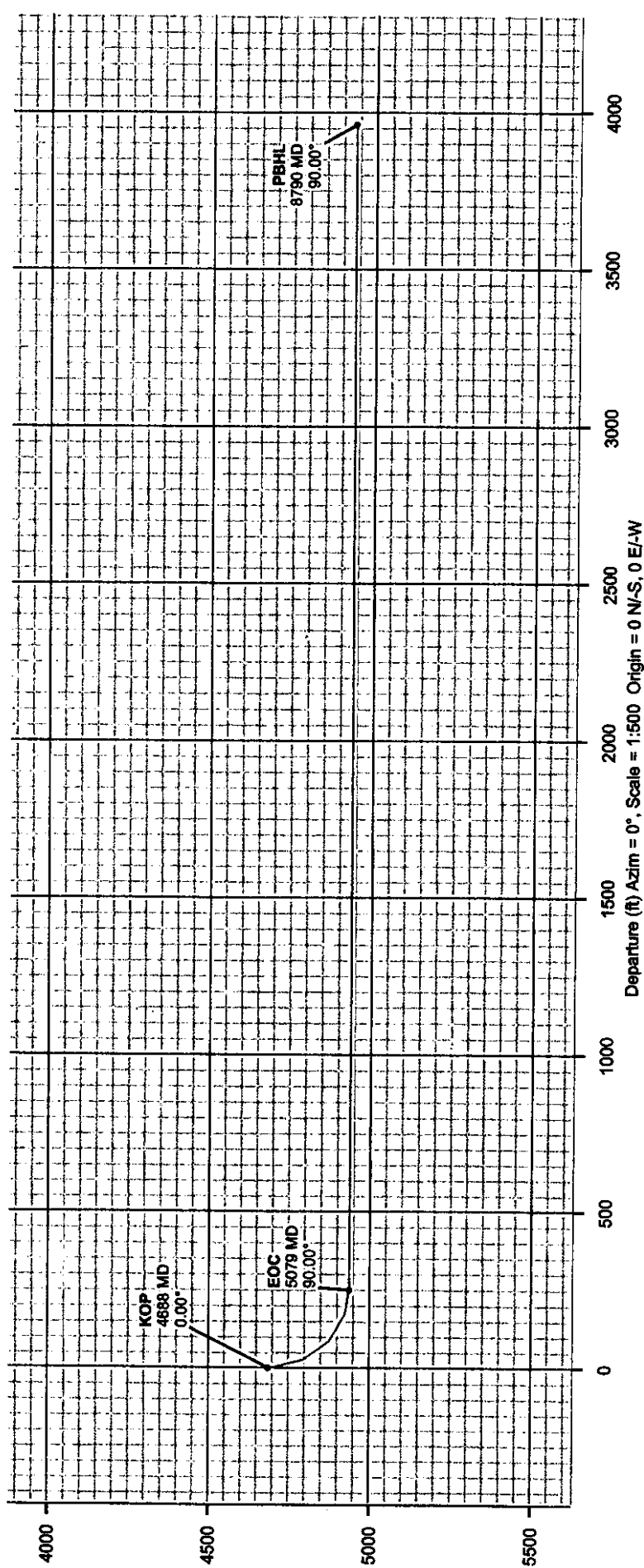
INTREPID
Directional Drilling Specialists



Endeavor Energy

WELL	1724 Ross #121	FIELD	Eddy County, NM Nad 83	STRUCTURE	1724 Ross #121
------	----------------	-------	------------------------	-----------	----------------

Magnetic Parameters		Dip: 60.427°		Date: June 08, 2005	Surface Location		NAUDS New Mexico State Project, Eastern Zone, US Feet		Miscellaneous	
Model: KQF 2005		Magn Dec: -8.838°	FB: 49219.0 at		Lat: N28 27 58.530	Northings: 55350.06 RUS	Old Corr: -0.017032°	Spot: 1724 Ross #121	TYD Ref: R08 (0.00 8 above)	
					Long: W104 17 54.240	Eastings: 55211.58 RUS	Scale Feet: 0.000002228	Plan: 1724 Ross #121	Stop Date: Mon 08:30 AM June 08, 2005	



INTERPID
Directional Drilling Specialists

BLOWOUT PREVENTER SYSTEM

3000 PSI

Fill Line

Flow Line

R-Blind Rams

R-Pipe Rams

Drilling
Spool

Choke Manifold

900 SERIES
3000 PSI WP

Choke Manifold Assembly for 5M WP System

To Pit and/or
Mud/Gas Separator

Adjustable
Choke

Blowout Preveter
Stack Outlet

Choke Line

Bleed Line to Pit

To Pit

Adjustable Choke

