

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 LCX ENERGY, LLC. 6 DESTA DRIVE SUITE 6800 MIDLAND, TEXAS 79705		OGRID Number 218885 API Number 30-015-34156 RECEIVED JUN 09 2005 OOD-ARTESIA	
Property Code 34884	Property Name 1625 WERNER	Well No. # 231	
Proposed Pool 1 COTTONWOOD CREEK-ABO WILDCAT		Proposed Pool 2 75255	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	16S	25E		760'	NORTH	660'	EAST	EDDY CO.

Proposed 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
D	23	16S	25E		760'	NORTH	660'	WEST	EDDY CO.

Additional Well Information

Work Type Code N	Well Type Code G	Cable/Rotary ROTARY	Lease Type Code P	Ground Level Elevation 3436'
Multiple NO	Proposed Depth TVD 4975' MD 9000	Formation ABO	Contractor UNKNOWN	Spud Date WHEN APPROVED
Depth to Groundwater 100'		Distance from nearest fresh water well .9 Miles		
Distance from nearest surface water COTTONWOOD CREEK 2.4 Mi North				
Pit: Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 18M bbls Drilling Method: Closed-Loop System ☐ 0 Pints Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

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
17½"	13 3/8"	48#	350'	450 Sx.	Surface
12¼"	9 5/8"	36#	1200'	475 Sx.	Surface
8 3/4"	7"	26#	5500'	670 Sx.	1000' FS
6 1/8"	4½"	11.6	MD 9000'TVD4975'	No cement	Liner not cem.

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 CASING

intermediate

Fresh Water Mud to @ 1200'

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 ☐.

OIL CONSERVATION DIVISION

Approved by:

Jim W. Gurn
District II Supervisor

Printed name: Joe T. Janica
Agent

Title:

Approval Date: JUN 20 2005

Expiration Date: JUN 20 2006

E-mail Address:

Date: 06/08/05

Phone: 505-391-8503

Conditions of Approval Attached ☐

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 450 Sx. of Class "C" cement + 25CaCl, + ¼# Flocele/Sx., circulate cement to surface.
3. Drill 12¼" hole to 1200'. Run and set 1200' of 9 5/8" 36# J-55 ST&C casing. Cement with 375 Sx. of 65/35 Class "C" POZ + 5% NaCl, + 6% Bentonite + ¼# Flocele/Sx., tail in with 100 Sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
4. Drill 8 3/4" hole to 550'. Run and set 5500' of 7" 26# J=55 LT&C casing. Cement with 500 Sx. of 50/50 Class "C" POZ, + 5% Salt, + 10% Gel, tail in with 170 Sx. of Class "C" cement + additives. Top of cement must be at least 1000' From surface.
5. Run in hole with CIBP and set at 4690'±, run in hole with whipstock and check orientation for 270° West, go in hole with mill and cut a window in 7" casing at 4675'±. Pick up lateral drilling assembly with a 6 1/8" bit and drill a 3960'± lateral to BHL at 760' FNL & 660' FWL SECTION 23 T16S-R25E EDDY CO. NM. TVD 4975'± MD 9000'±.
6. Run and set a 4400' 4½" 11.6# L-80 HDL slotted liner from 9000' MD back to 4600'± liner hanger set at 4600'±. This liner will not be cemented.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		COTTONWOOD CREEK -ABO WILDCAT
Property Code	Property Name	Well Number
	1625 WERNER	231
OGRID No.	Operator Name	Elevation
218885	LCX ENERGY, LLC	3436'

Surface Location

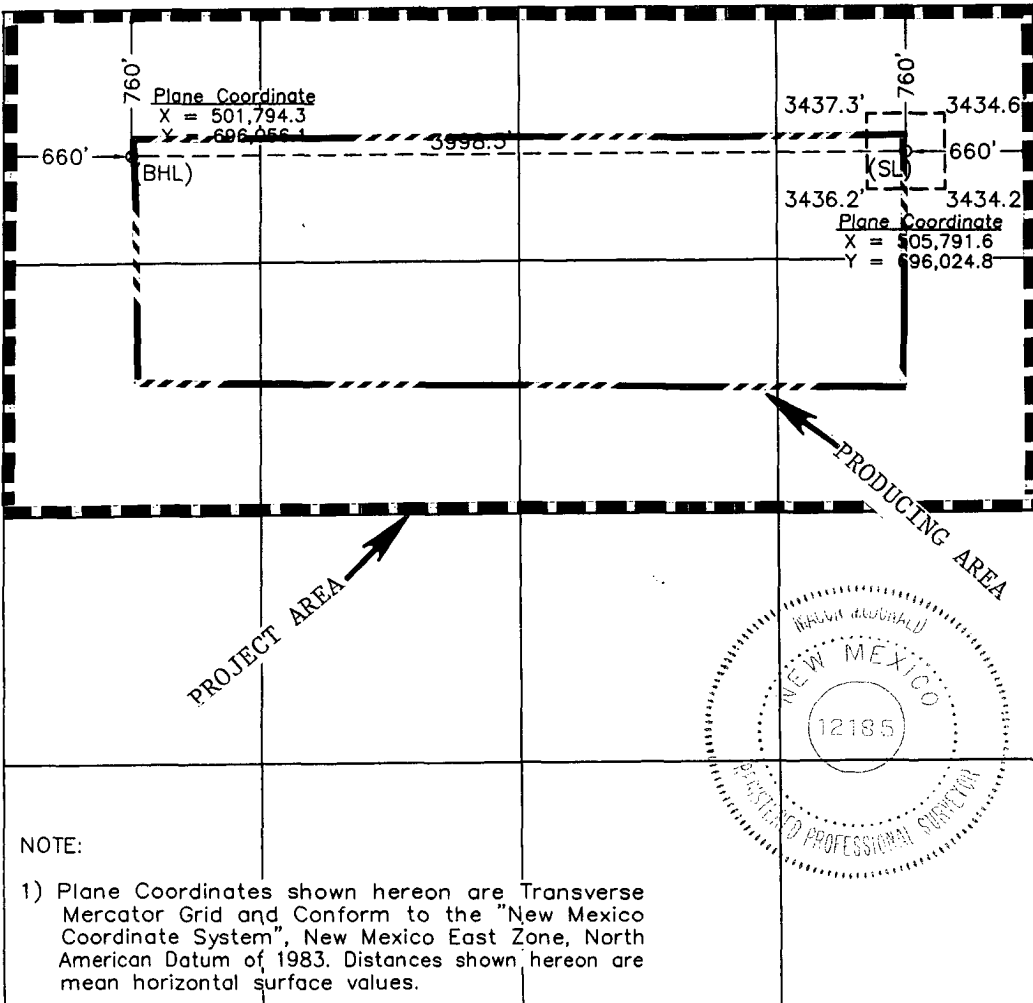
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	16 S	25 E		760	NORTH	660	EAST	EDDY

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
D	23	16 S	25 E		760	NORTH	660	WEST	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

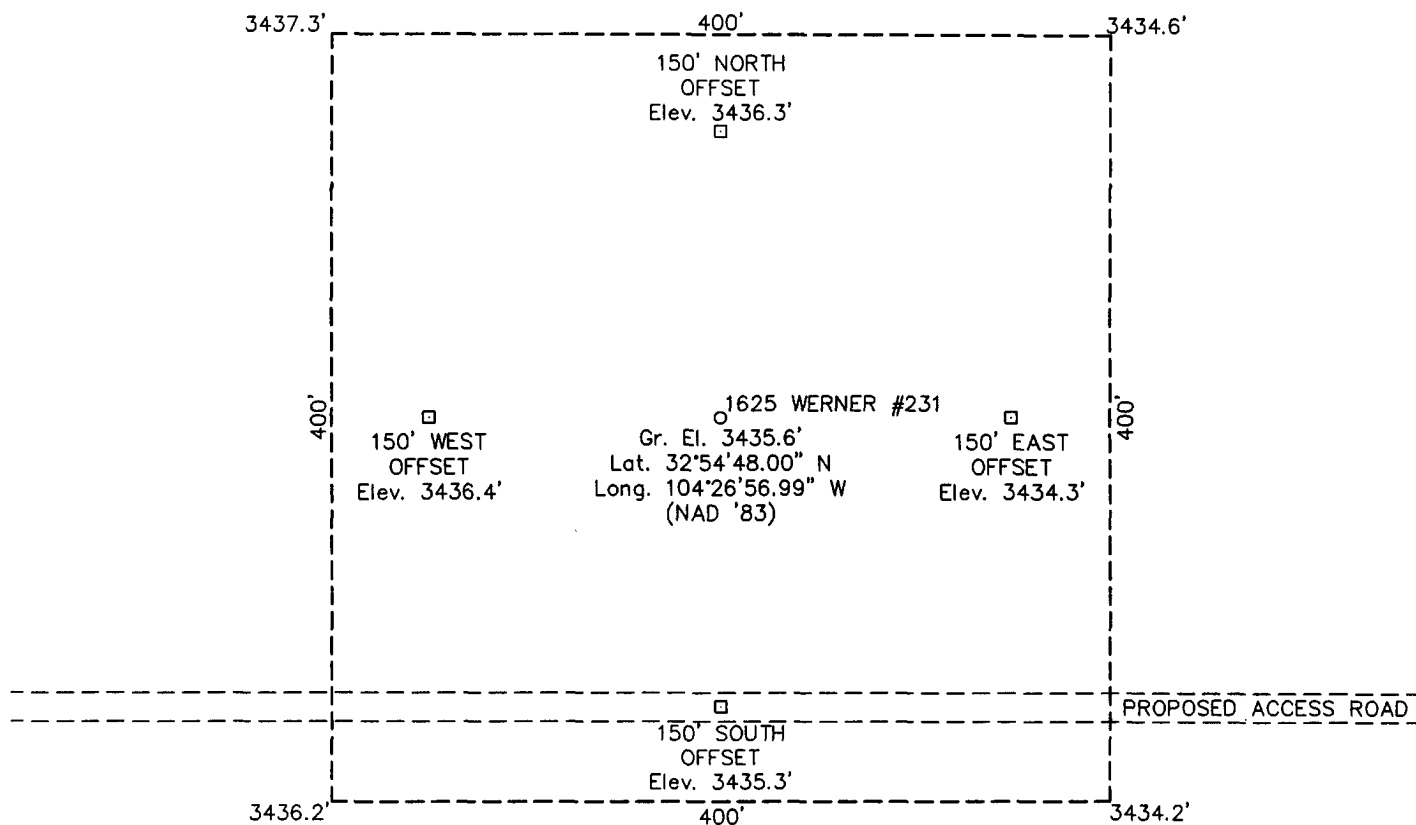
 Plane Coordinate X = 501,794.3 Y = 696,056.1 Plane Coordinate X = 505,791.6 Y = 696,024.8 NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1983. Distances shown hereon are mean horizontal surface values.				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 06/08/05 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 orrect to the best of my belief. May 17, 2005 Date Surveyed Signature & Seal of Professional Surveyor W.O. Num. 2005-0429 Certificate No. MACON McDONALD 12185	
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SECTION 23, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.

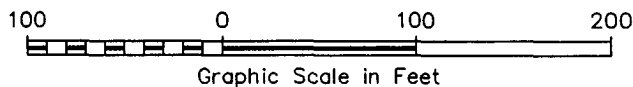
EDDY COUNTY

NEW MEXICO

L-2005-0429-A

**DRIVING DIRECTIONS**

FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND U.S. HIGHWAY 82 IN ARTESIA, NM GO NORTH AND NORTHWEST ON SAID U.S. HIGHWAY 285 FOR 2.2 MILES. THEN TURN LEFT ON COMPRESS ROAD (COUNTY ROAD 115) AND GO WEST FOR 1.2 MILES TO 26TH STREET THEN TURN RIGHT AND GO NORTH ON 26TH STREET FOR 0.75 MILES TO FRANCO ROAD. THEN TURN LEFT AND GO WEST ON FRANCO ROAD FOR 1 MILE TO AN EXISTING 2 TRACT ROAD. THEN TURN RIGHT AND GO NORTH ON THE EXISTING 2-TRACK ROAD, ALONG THE EAST LINE OF SECTION 26 AND 23, A DISTANCE OF 1.15 MILES TO A POINT FROM WHICH THE PROPOSED LOCATION IS LOCATED WEST APPROXIMATELY 625 FEET.

**LCX ENERGY, LLC****1625 WERNER #231**

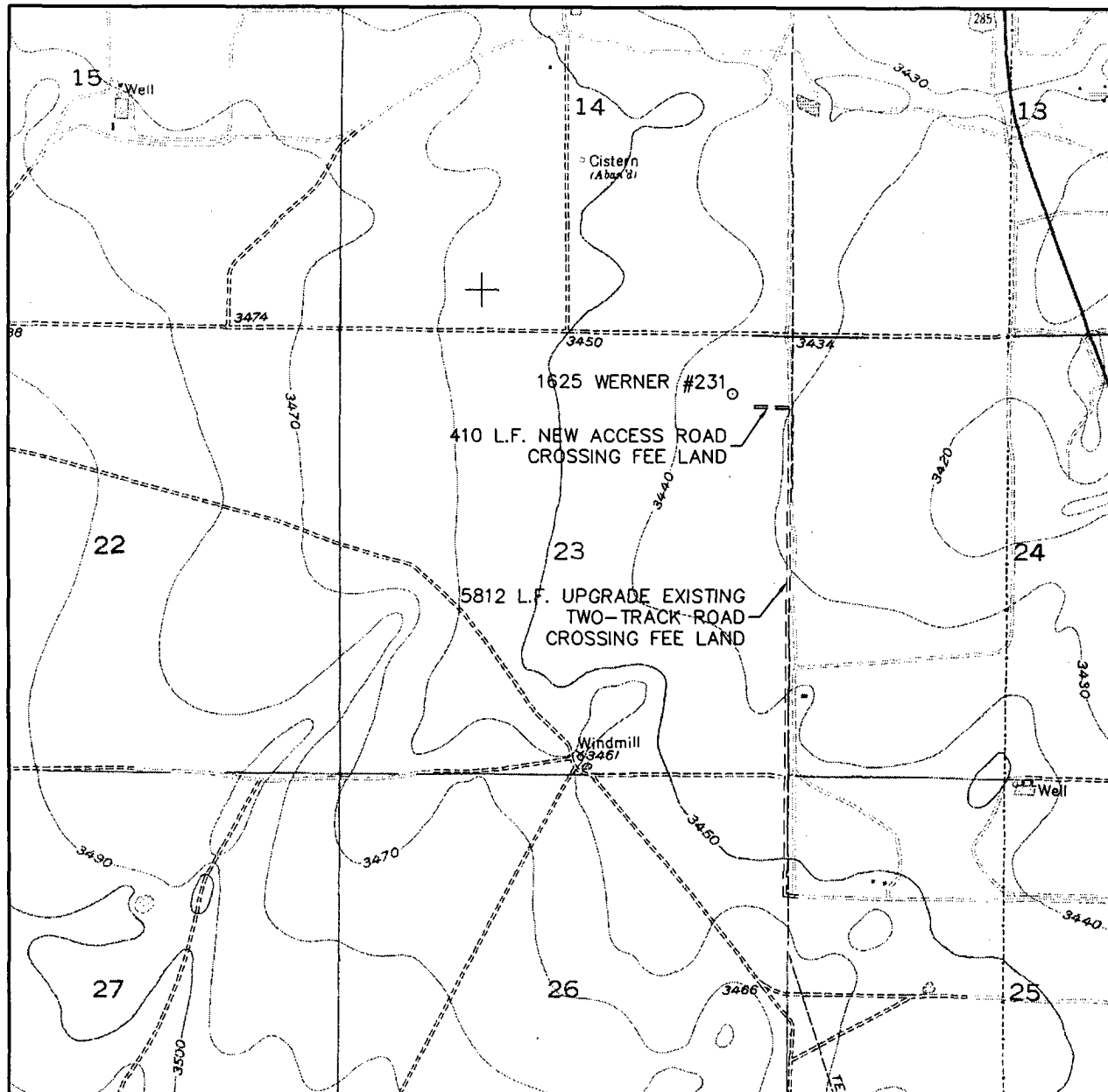
Located 760' FNL & 660' FEL, Section 23
Township 16 South, Range 25 East, N.M.P.M.
Eddy County, New Mexico

**WEST
COMPANY**
of Midland, Inc.

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

Drawn By: LVA	Date: May 23, 2005
Scale: 1"=100'	Field Book: 303 / 11-15
Revision Date:	Quadrangle: Espuela
W.O. No: 2005-0429	Dwg. No.: L-2005-0429-A

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
ESPUELA - 10'

SEC. 23 TWP. 16-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 760' FNL & 660' FEL

ELEVATION 3436'

OPERATOR LCX ENERGY, LLC

LEASE 1625 WERNER

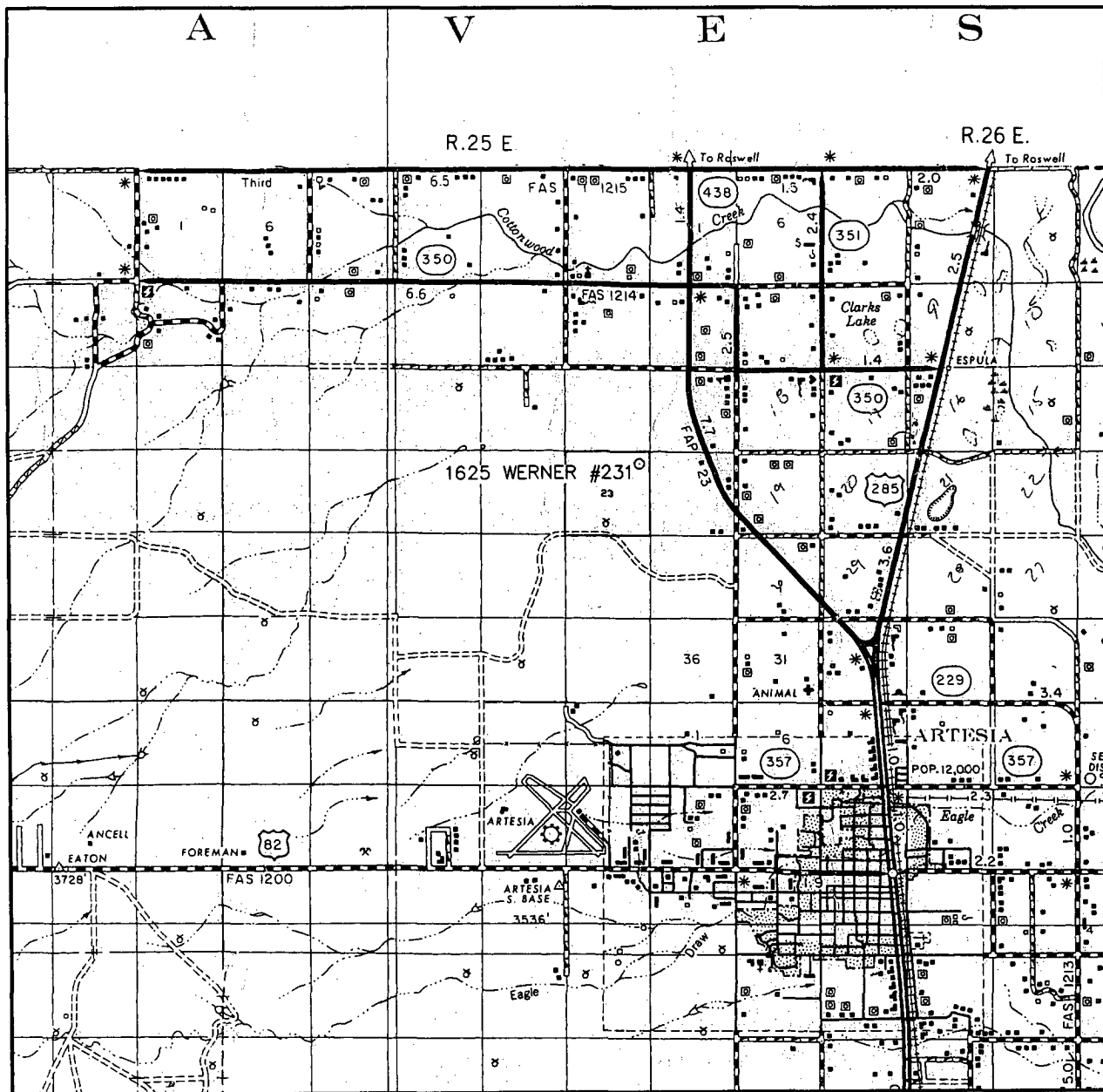
U.S.G.S. TOPOGRAPHIC MAP
ESPUELA, N.M.



**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. 23 TWP. 16-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 760' FNL & 660' FEL

ELEVATION 3436'

OPERATOR LCX ENERGY, LLC

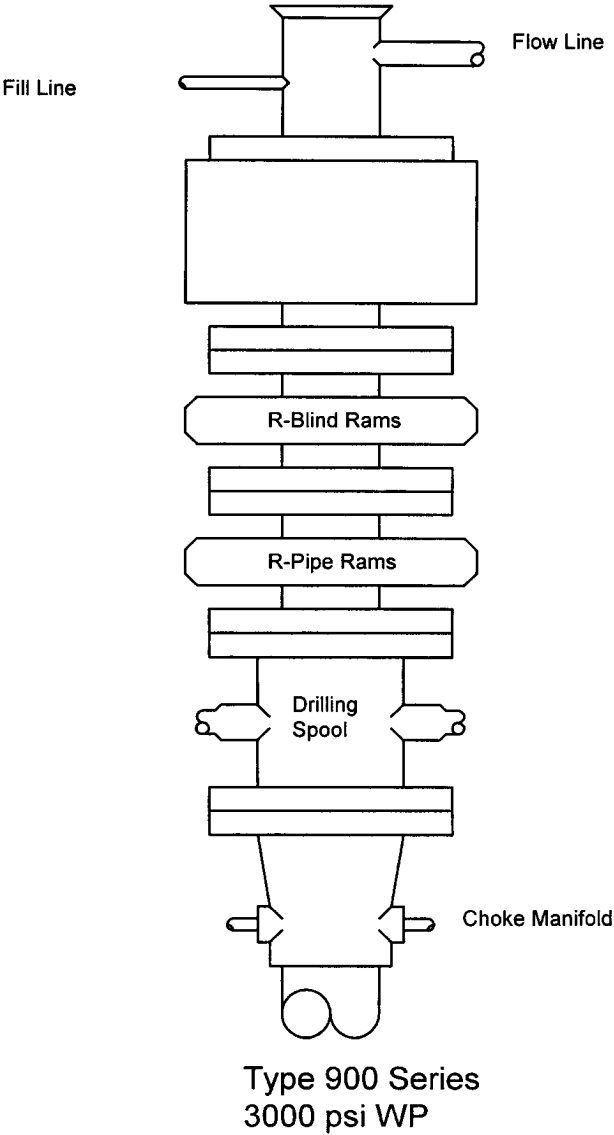
LEASE 1625 WERNER



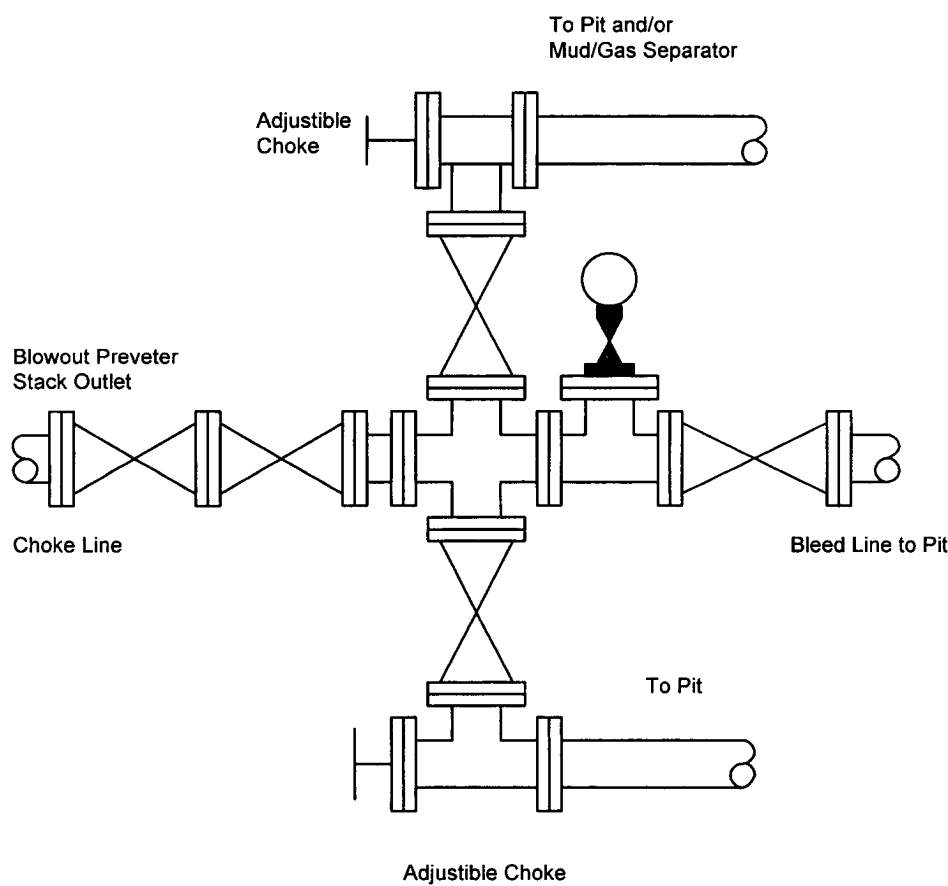
**WEST
COMPANY**
of Midland, Inc.

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

BLOWOUT PREVENTER SYSTEM



Choke Manifold Assembly for 3M WP System



Proposal

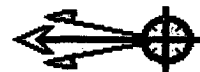
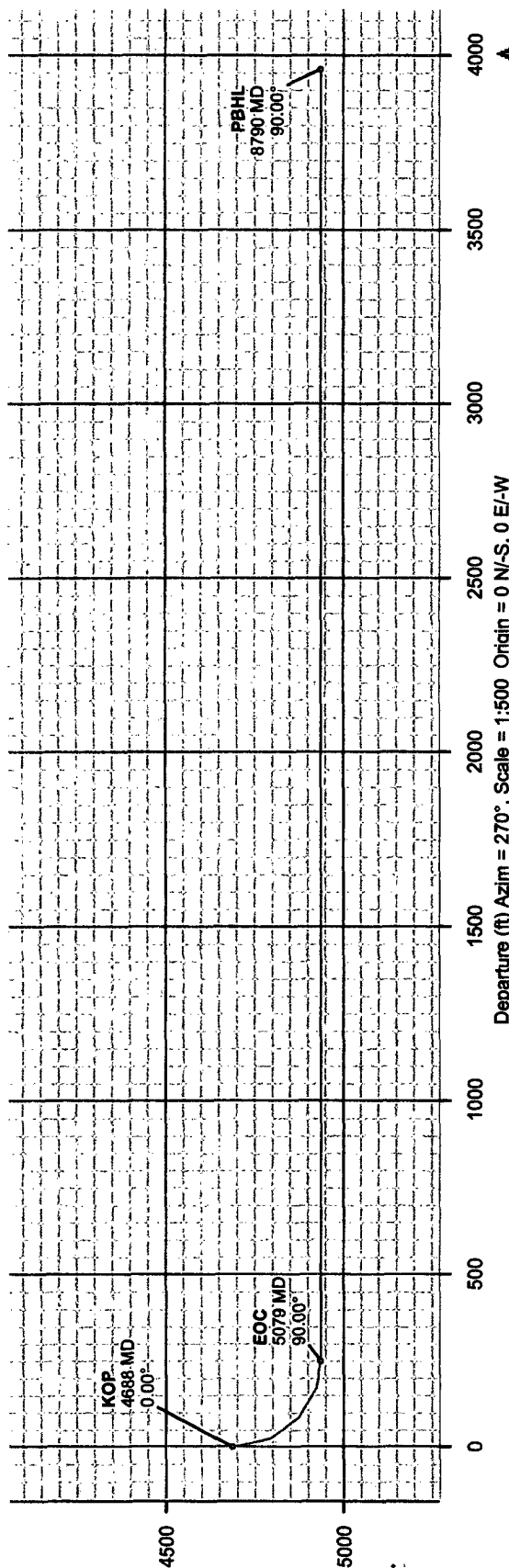
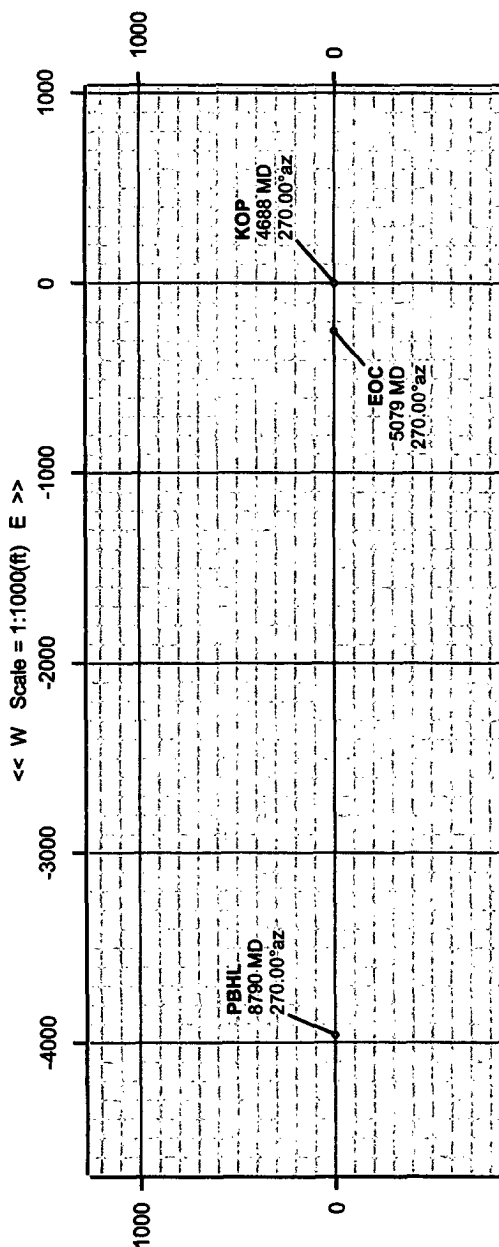


Report Date: June 6, 2005 Client: Endeavor Energy Field: Eddy County, NM Nad 83 Structure / Slot: 1625 Werner #231 / 1625 Werner #231 Well: 1625 Werner #231 Borehole: 1625 Werner #231 UWI/API#: Survey Name / Date: 1625 Werner 231_r1 / June 6, 2005 Tort / AHD / DDI / ERD ratio: 90.000° / 3960.00 ft / 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 ftUS, E 552111.259 ftUS Grid Convergence Angle: +0.01875232° Grid Scale Factor: 0.99990922	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 270.000° 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
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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	270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-90.00M
KOP	4687.89	0.00	270.00	4687.89	0.00	0.00	0.00	0.00	0.00	0.00	-90.00M
	4700.00	2.79	270.00	4700.00	0.29	-0.00	-0.29	0.29	270.00	23.00	-90.00M
	4800.00	25.79	270.00	4796.25	24.80	-0.00	-24.80	24.80	270.00	23.00	0.00G
	4900.00	48.79	270.00	4875.28	84.98	-0.00	-84.98	84.98	270.00	23.00	0.00G
	5000.00	71.79	270.00	4924.52	171.25	-0.00	-171.25	171.25	270.00	23.00	0.00G
EOC	5079.19	90.00	270.00	4937.00	249.11	-0.00	-249.11	249.11	270.00	23.00	0.00G
PBHL	8790.08	90.00	270.00	4937.00	3960.00	-0.00	-3960.00	3960.00	270.00	0.00	0.00G

Endeavor Energy

WELL	1625 Werner #231	FIELD	Eddy County, NM Nad 83	STRUCTURE	1625 Werner #231
Magnetic Parameters		Miscellaneous			
Date:	June 06, 2006	NAD83 New Mexico State Plane, Eastern Zone, US Feet		1625 Werner #231	TYO Ref:
Model:	GRF 2006	N43 27 58.556		Slat	RYD Date:
Dip:	99.437°	North: 533556.05 RU/S		1625 Werner #231	Mon 08:48 AM June 05, 2006
Mag Dec:	+8.638°	East: 49319.017		1625 Werner #231	
		Lat: W104 17 54.240		1625 Werner #231	
		Easting: 862111.26 RU/S		1625 Werner #231	
		Scale Fact: 0.9999992228		1625 Werner #231	



INTERED
Directional Drilling Specialists

RECEIVED
JUN 09 2005
OCD-ARTEBIA

There is no indication of the presence of H₂S while drilling any of the other wells in this area.


Joe T. Janica