

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

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

¹ Operator Name and Address LCX ENERGY, LLC. 110 NORTH MARIENFELD SUITE 200 MIDLAND, TEXAS 79701		² OGRID Number 218885
		³ API Number 30 - 015-34249
⁴ Property Code 34967	⁵ Property Name 1625 STATE COM.	⁶ Well No. 281
⁷ Proposed Pool 1 COTTONWOOD CREEK WOLFCAMP (75250)		⁸ Proposed Pool 2

⁷ Surface Location

UL or lot no. M	Section 28	Township 16S	Range 25E	Lot Idn	Feet from the 660'	North/South line SOUTH	Feet from the 760'	East/West line WEST	County EDDY CO.
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⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no. D	Section 28	Township 16S	Range 25E	Lot Idn	Feet from the 660'	North/South line NORTH	Feet from the 760'	East/West line WEST	County EDDY CO.
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Additional Well Information

⁹ Work Type Code N	¹⁰ Well Type Code G	¹¹ Cable/Rotary ROTARY	¹² Lease Type Code S	¹³ Ground Level Elevation 3546'
¹⁴ Multiple NO	¹⁵ Proposed Depth TVD-4940' MD-8790'	¹⁶ Formation WOLFCAMP	¹⁷ Contractor BIG DOG	¹⁸ Spud Date WHEN APPROVED
Depth to Groundwater 100' +		Distance from nearest fresh water well 1.5 mi. W		Distance from nearest surface water 2 mi North Cottonwood Creek
Pit: Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 18M 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'	450 Sx.	"
12 1/2"	9 5/8"	36#	1200'	475 Sx.	"
8 3/4"	7"	26#	5000'	670 Sx.	1000' From Sur.
6 1/8"	4 1/2"	11.6#	MD-8790'-TVD4940'	425 Sx.	Top of 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

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 NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed name: Joe T. Janica
Title: Agent
E-mail Address:
Date: 07/27/05
Phone: 505-391-8503

OIL CONSERVATION DIVISION

Approved by:

Jim W. Green
District II Supervisor
Approval Date: JUL 29 2005 | Expiration Date: JUL 29 2006

Conditions of Approval Attached ☐

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

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
	75250	COTTONWOOD CREEK-WOLFECAMP
Property Code	Property Name	Well Number
	1625 STATE COMM	281
OGRD No.	Operator Name	Elevation
218885	LCX ENERGY, LLC	3546

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	16 S	25 E		660	SOUTH	760	WEST	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	28	16 S	25 E		660	NORTH	760	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

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 = 491,285.9 Y = 686,982.1	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 07/27/05 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. July 8, 2005 Date Surveyed Signature & Seal of Professional Surveyor W.O. Num. 2005-0648 Certificate No. MACON McDONALD 12185
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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 360° North. 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.
7. Fresh water spud mud will be used to drill surfqce hole, Fresh water Gel and a Polymer system will be used to drill well to TD

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 here.

Just Janice

CONTOUR INTERVAL:
ESPUELA - 20'

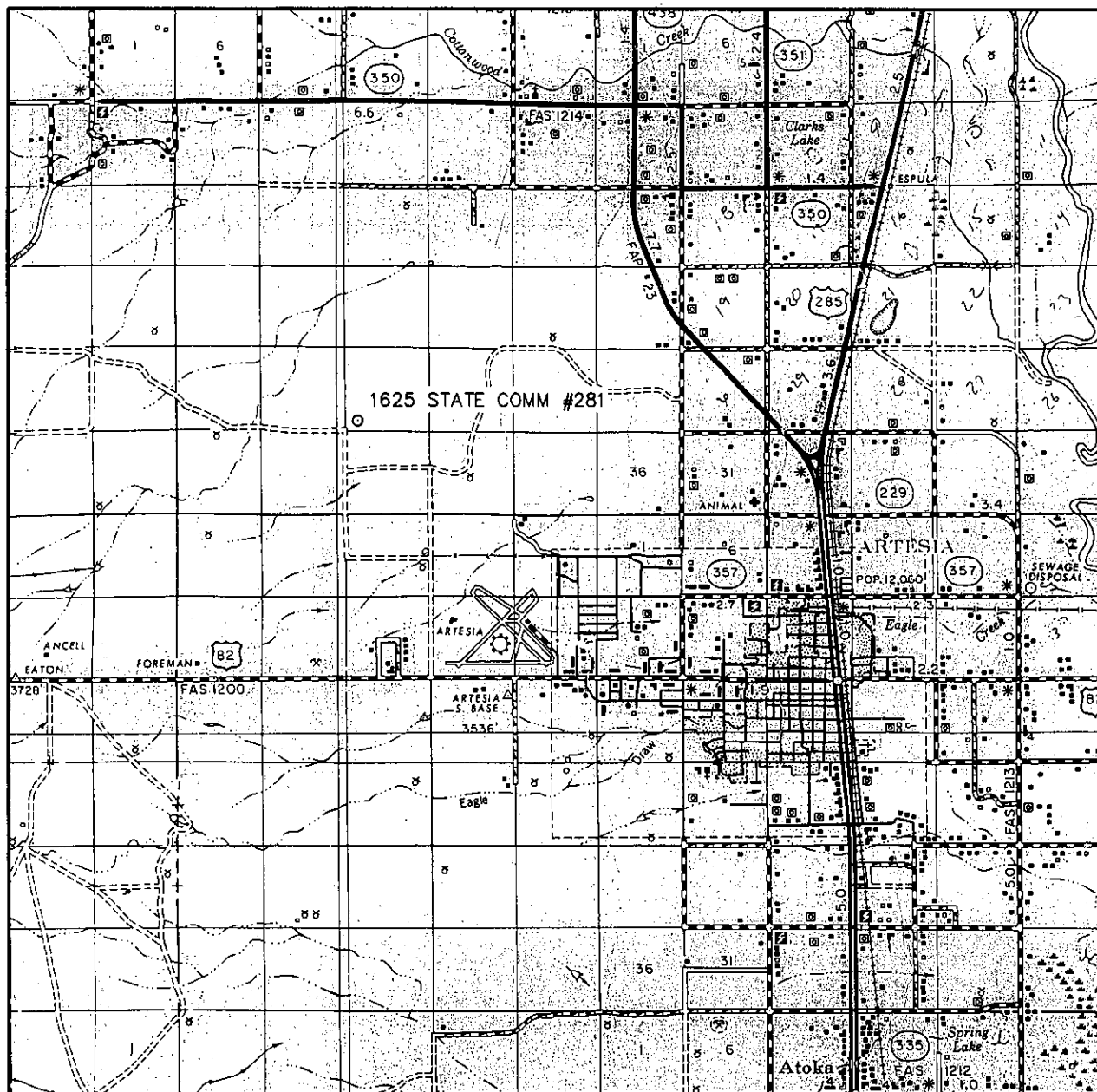
U.S.G.S. TOPOGRAPHIC MAP
ESPUELA, N.M.



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

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 660' FSL & 760' FWL

ELEVATION 3546'

OPERATOR LCX ENERGY, LLC

LEASE 1625 STATE COMM #281



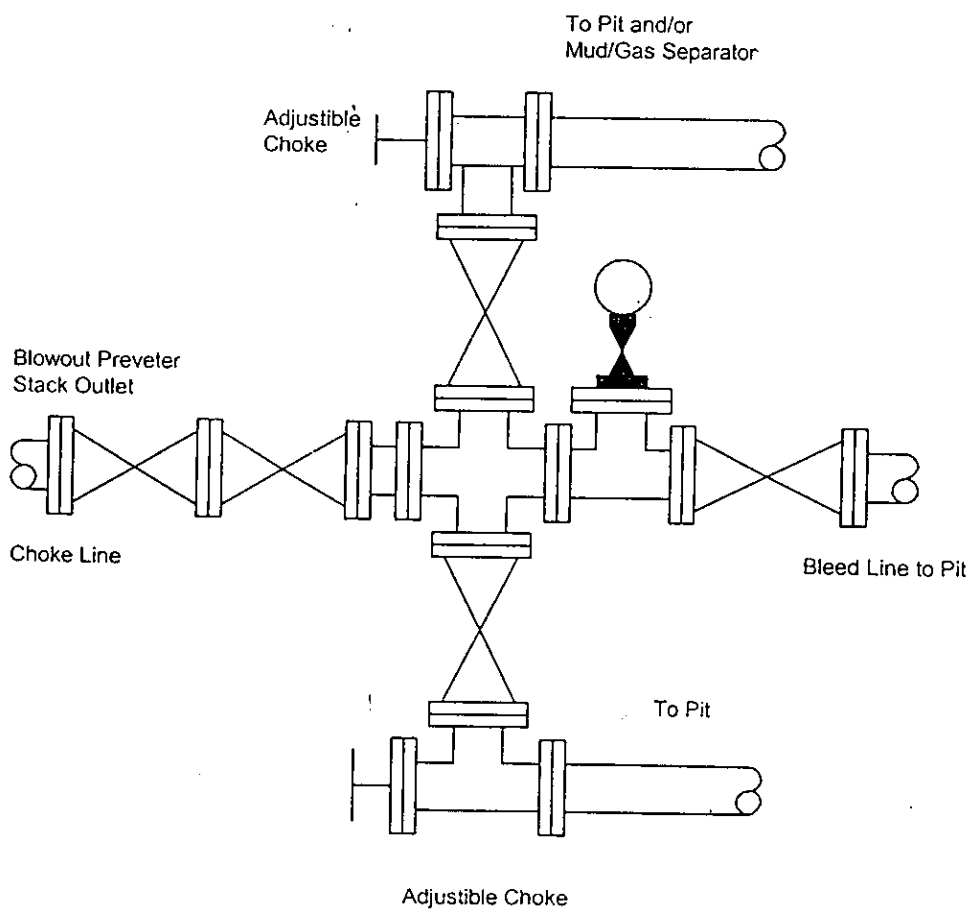
**WEST
COMPANY**
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110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
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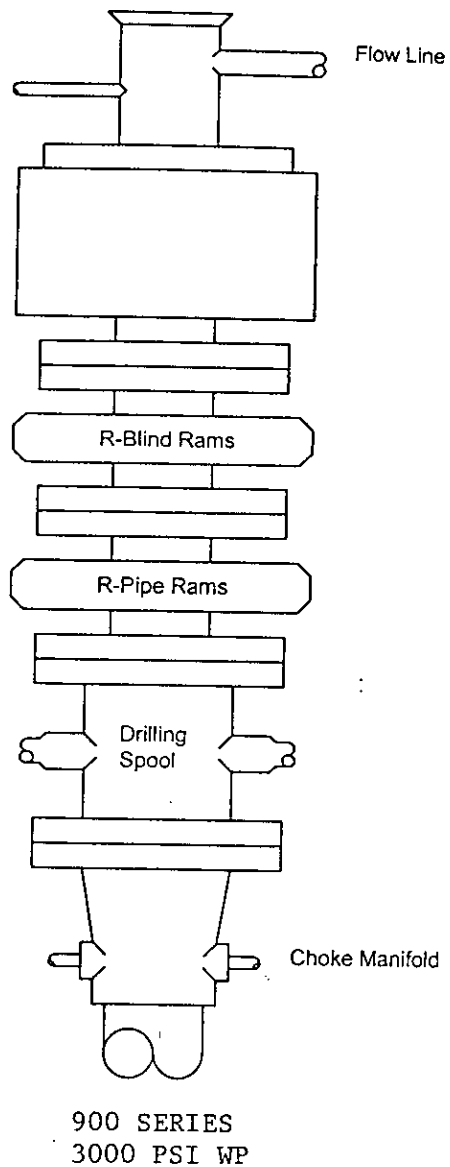
BLOWOUT PREVENTER SYSTEM

3000 PSI

Choke Manifold Assembly for 5M WP System



Fill Line



Proposal

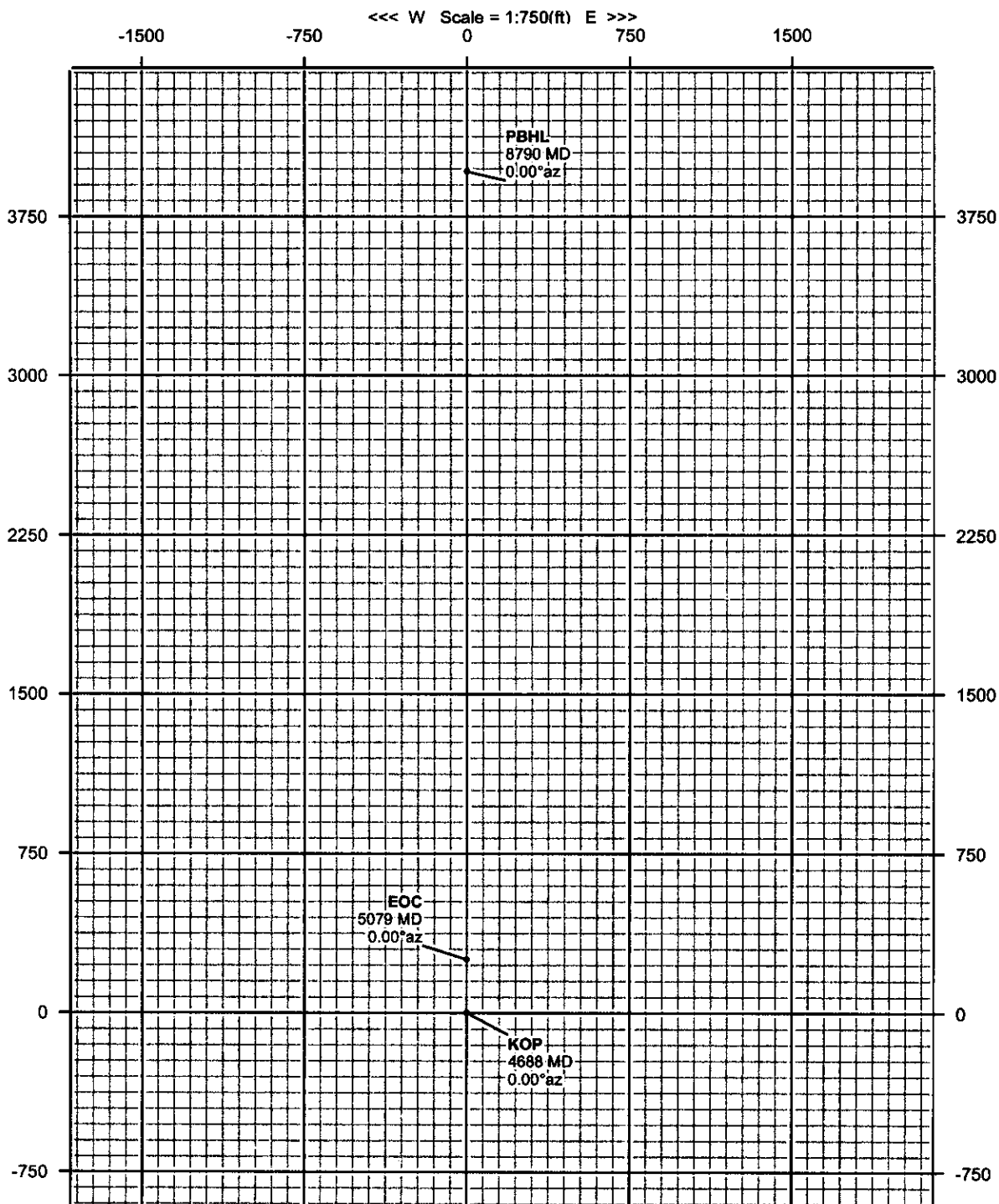
Report Date: July 26, 2005 Client: Endeavor Energy Field: Eddy County, NM Nad 83 Structure / Slot: 1625 ST Com #281 / 1625 ST Com #281 Well: 1625 ST Com #281 Borehole: 1625 ST Com #281 UWI/API#: Survey Name / Date: 1625 #281_r1 / July 26, 2005 Tort / AHD / DDI / ERD ratio: 90.000° / 3960.00 ft / 5.802 / 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: 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: 8.622° Total Field Strength: 49305.855 nT Magnetic Dip: 60.425° Declination Date: July 26, 2005 Magnetic Declination Model: IGRF 2005 North Reference: Grid North Total Corr Mag North -> Grid North: +8.603° 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	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 1625 ST Com #281 FIELD Eddy County, NM Nad 83 STRUCTURE 1625 ST Com #281

Magnetic Parameters		Surface Location		NADES New Mexico State Planes, Eastern Zone, US Feet		Miscellaneous	
Model: KRF 2005	Dip: 60.425° Mag Dec: +8.622°	Date: July 26, 2006 FB: 49306.9 nT	Lat: N32 27 56.536 Lon: W104 17 54.240	Northing: 53358.06 RLJ8 Easting: 552111.26 RLJ8	Old Conv: +0.01875232° Scale Fact: 0.000002238	Slot: 1625 ST Com #281 Plan: 1625 #281_r1	TVD Ref: RKB (0.00 ft above) Srvy Date: Tue 10:41 AM July 26, 2006

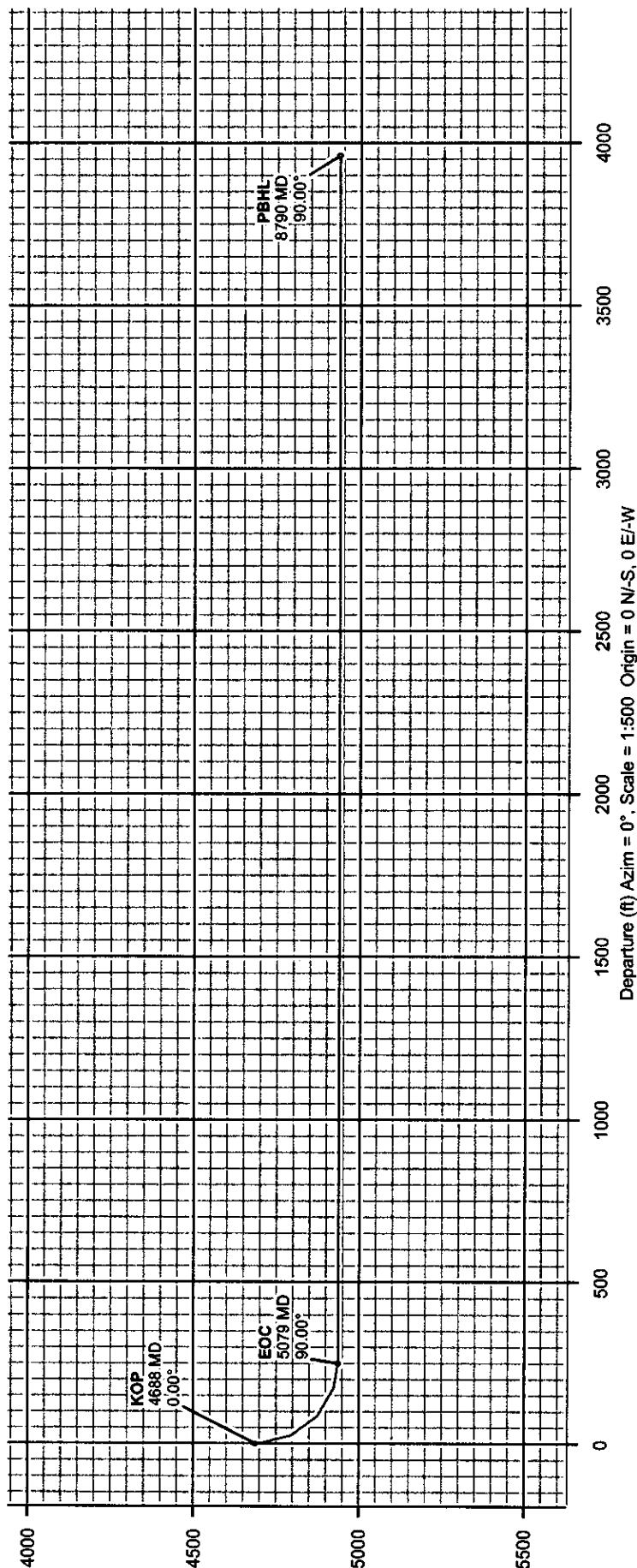


INTREPID
Directional Drilling Specialists



Endeavor Energy

WELL	1625 ST Com #281	FIELD	Eddy County, NM Nad 83	STRUCTURE	1625 ST Com #281
Magnetic Parameters	GRF 2005	Dir:	60.425°	Drill:	July 20, 2005
Model:	GRF 2005	FS:	+8.822°	FS:	49205.9 NT
Surface Location	Lat: N32 27 56.536	North:	533558.05 NLS	Scale:	0.000002238
Lon:	W104 17 54.340	East:	552111.20 NLS	Scale:	0.000002238
Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Grid Conv:	+0.01575232'	Scale:	0.000002238
Site:	1625 ST Com #281	Scale:	0.000002238	Scale:	0.000002238
Plan:	1023 6291_1	Scale:	0.000002238	Scale:	0.000002238
TVD Ref:	RKB (0.00 ft above)	TVD Ref:	RKB (0.00 ft above)	TVD Ref:	RKB (0.00 ft above)
Srv Date:	Tue 10:41 AM July 20, 2005	Srv Date:	Tue 10:41 AM July 20, 2005	Srv Date:	Tue 10:41 AM July 20, 2005



INTREPID
Directional Drilling Specialists