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

RECEIVED JAN 31 2007 OCD - ARTESIA, NM

Form C-101
May 27, 2004

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	2 OGRID Number
LCX ENERGY, LLC. 110 NORTH MARIENFELD SUITE 200 MIDLAND, TEXAS 79701	218885
	3 API Number 30 - 015-35412

4 Property Code	5 Property Name	6 Well No.
36200	1625 STATE COM.	161

9 Proposed Pool 1	10 Proposed Pool 2
COTTONWOOD CREEK-WOLFCAMP (75250)	

7 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	16	16S	25E		660'	NORTH	760'	EAST	EDDY

8 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
P	16	16S	25E		660'	SOUTH	760'	EAST	EDDY

Additional Well Information

11 Work Type Code	12 Well Type Code	13 Cable/Rotary	14 Lease Type Code	15 Ground Level Elevation
N	G	ROTARY	S	3482'
16 Multiple	**17 Proposed Depth**	**18 Formation**	**19 Contractor**	**20 Spud Date**
NO	MD-8717' TVD-4960'	WOLFCAMP	BIG DOG DRILLING CO	WHEN APPROVED

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water
100'	1200' Southwest	None known

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
17½"	13 3/8"	48#	350'	400 Sx.	Surface
12¼"	9 5/8"	36#	1200'	475 Sx.	Surface
8 3/4"&7 7/8"	5½"	15.5#	MD-8717' TVD-4960'	600 Sx. *	Est. TOC 1000'

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.

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

* Tie back to be verified by CBL or Temp Survey

H2S Well contingency plan required when public dwelling lies with 1/2 mile of location.

SEE ATTACHED SHEET FOR DETAIL

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: joejanica@valornet.com
Date: 01/30/07 Phone: 505-391-8503

Joe T. Janica

OIL CONSERVATION DIVISION

Approved by: BRYAN G. ARRANT
Title: DISTRICT II GEOLOGIST
Approval Date: FEB 05 2007 Expiration Date: FEB 05 2008
Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED
JAN 31 2007
OCD - ARTESIA, NM

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	75250	COTTONWOOD CREEK-WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	1625 STATE COM	161

OGRID No.	Operator Name	Elevation
218885	LCX ENERGY	3482'

Surface Location

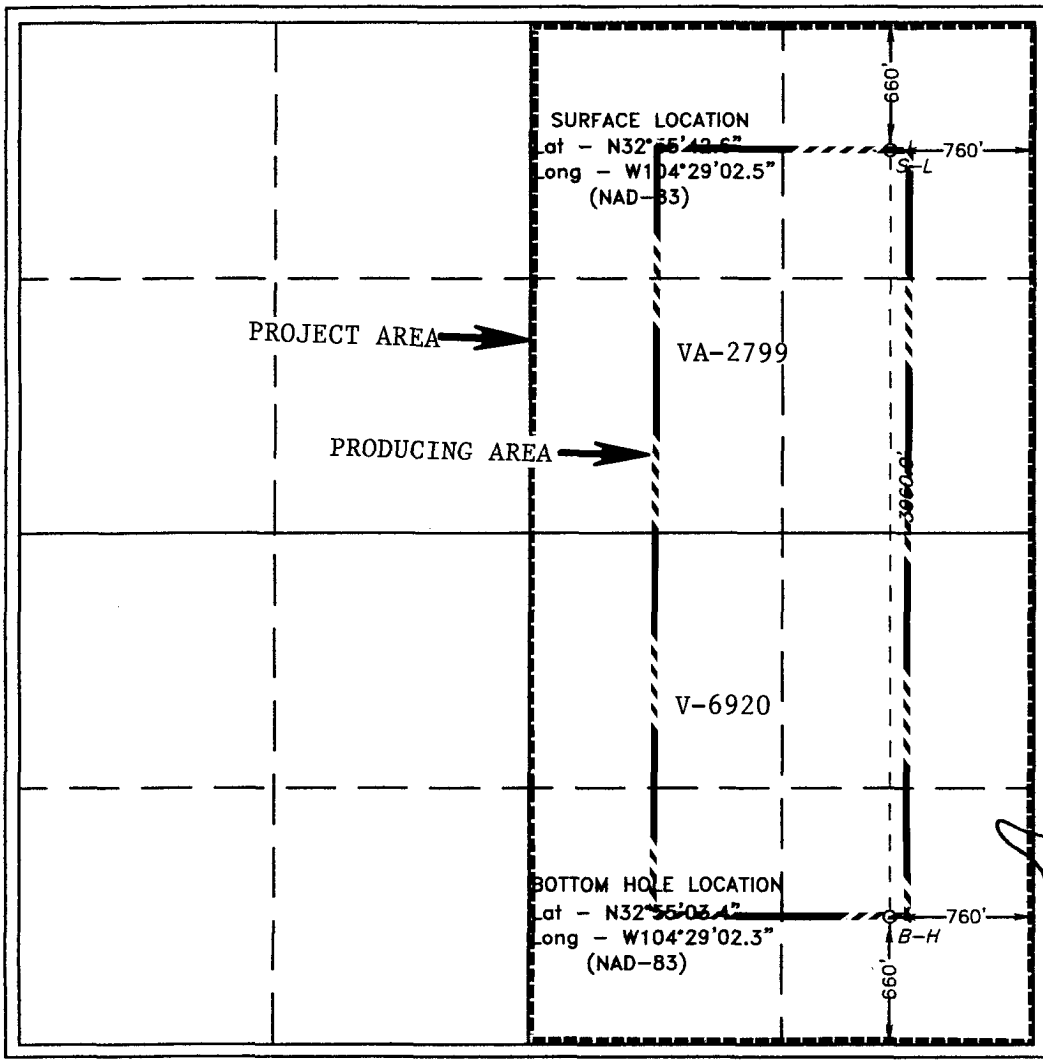
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	16 S	25 E		660	NORTH	760	EAST	EDDY

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
P	16	16 S	25 E		660	SOUTH	760	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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Joe T. Janica
Signature

01/30/07
Date

Joe T. Janica
Printed Name

Agent

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 supervison, and that the same is true and correct to the best of my belief.

DECEMBER 01, 2006
Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL SURVEYOR

W.O. No. 17448

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

LCX ENERGY, LLC
110 N. Marienfeld St., Suite 200
Midland, TX 79701

Horizontal Drilling Procedure

(Eddy Co., NM)

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 350'.

3. Drill 12-1/4 hole to 1200'. Run and set 1200' of 9-5/8" 36# J-55 ST&C casing. Cement with 375 sx of 35/65 Poz/C + 5% NaCl + 6% Bentonite, tail in with 100 sx. of Class "C" cement + 2% CaCl, circulate cement to surface.

4. Drill 7-7/8" or 8-3/4" hole to approx. 5000'. Set cement kick-off plug from TD to approx. 4400 ft with 150 sx H + 0.5% dispersant.

5. Dress cement top to desired kick-off point. Drill 7-7/8" curve and land lateral in pay zone (approx. 4900 ft TVD). Pickup lateral drilling assembly with an 8-3/4" or 7-7/8" bit and drill a +/-4000' lateral to 660' from lease line (approx. 4000 ft vertical section).

6. Run and set 5-1/2" 17# N80 or stronger production casing. Cement 5-1/2" with acid soluble cement through the lateral and 400 sx 50/50 Poz/C + 10% gel and tail in with 200 sx C + 200% CaCO3 (acid soluble cement) + fluid loss additive + retarder (as required), attempting to bring top of cement to 1,000'.

Contingency Strings:

If lost circulation occurs in the surface hole:

2a. Run and set 350' of 13-3/8" 48# H-40 ST&C casing. Cement with 200 sx 35/65 Poz/C + 6% gel and tail in with 200 sx of Class "C" cement + 2% CaCl, circulate cement to surface.

If hole conditions dictate running a 7" contingency string in the 8-3/4" hole :

4a. Run approx. 5100 ft 7" 26# J55 or stronger casing to TD. Cement with 700 sx class 'C' cement + add's attempting bringing TOC to approx. 1,000 ft. This may be done in the vertical pilot hole or at the end of the 8-3/4" curve section.

4b. Run whipstock and cut a window in the 7" casing (or drill out with 6-1/8" BHA if 7" set at end of curve). Drill to TD.

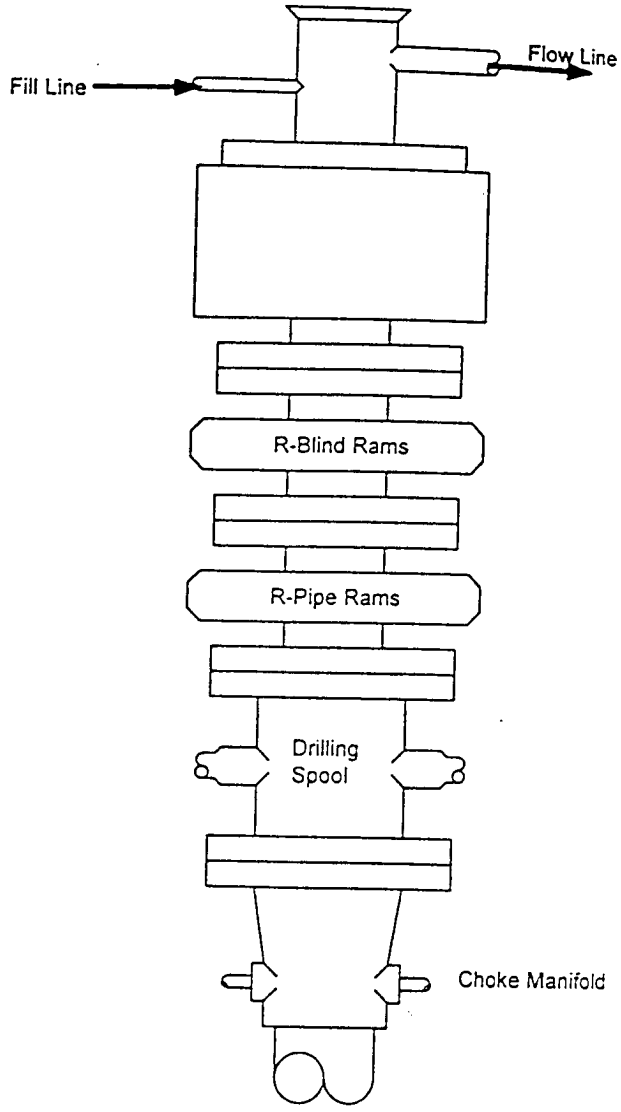
5a. Step 5 will be omitted.

6a. Run and set approximately 4400 ft 4-1/2" 11.6# N/L80 liner from TD to approximately 200' above the window/7" casing shoe. Cement with approx. 110 sx C + 200% CaCO3 (acid soluble cement) + add's attempting to bring TOC above liner top.

FRESH WATER WILL BE USED TO DRILL THE 350' HOLE AND THE 1200' HOLE.

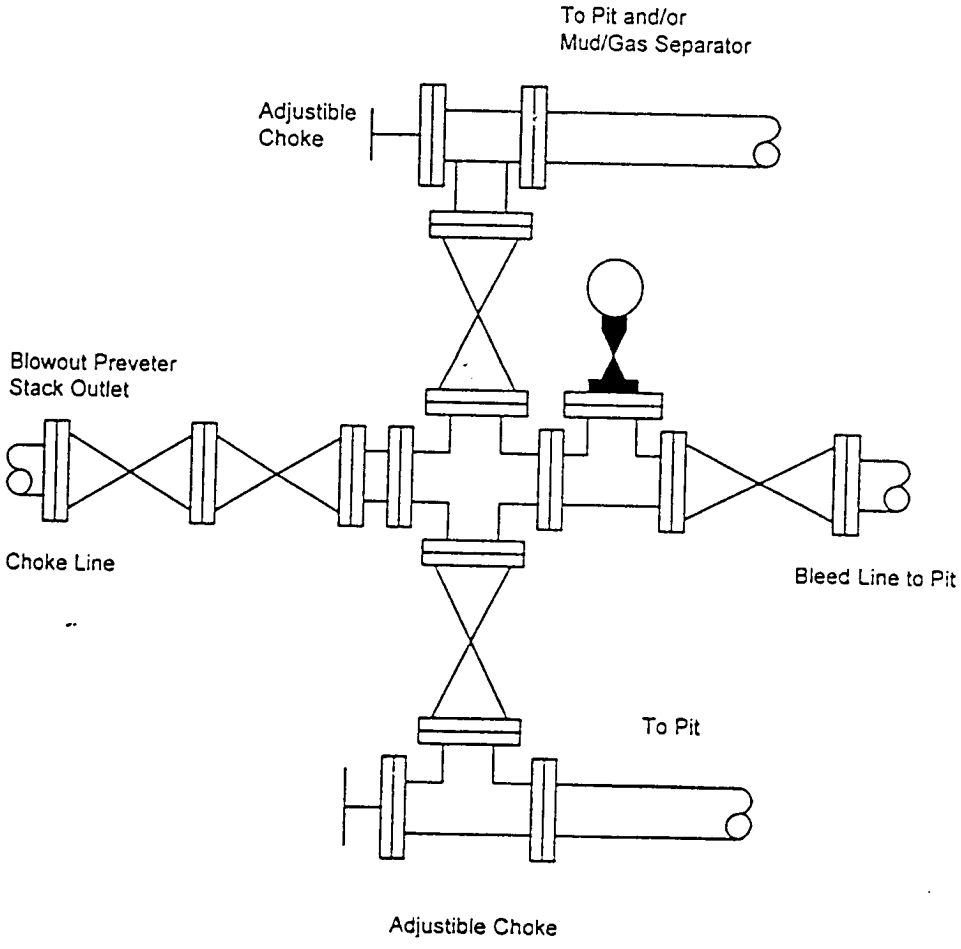
THERE IS NO KNOWN PRESENCE OF ANY H_2S IN THIS AREA. OTHER WELLS DRILLED HAVE NOT ENCOUNTERED ANY HYDROGEN SULFIDE WHILE DRILLING.

BLOWOUT PREVENTER SYSTEM



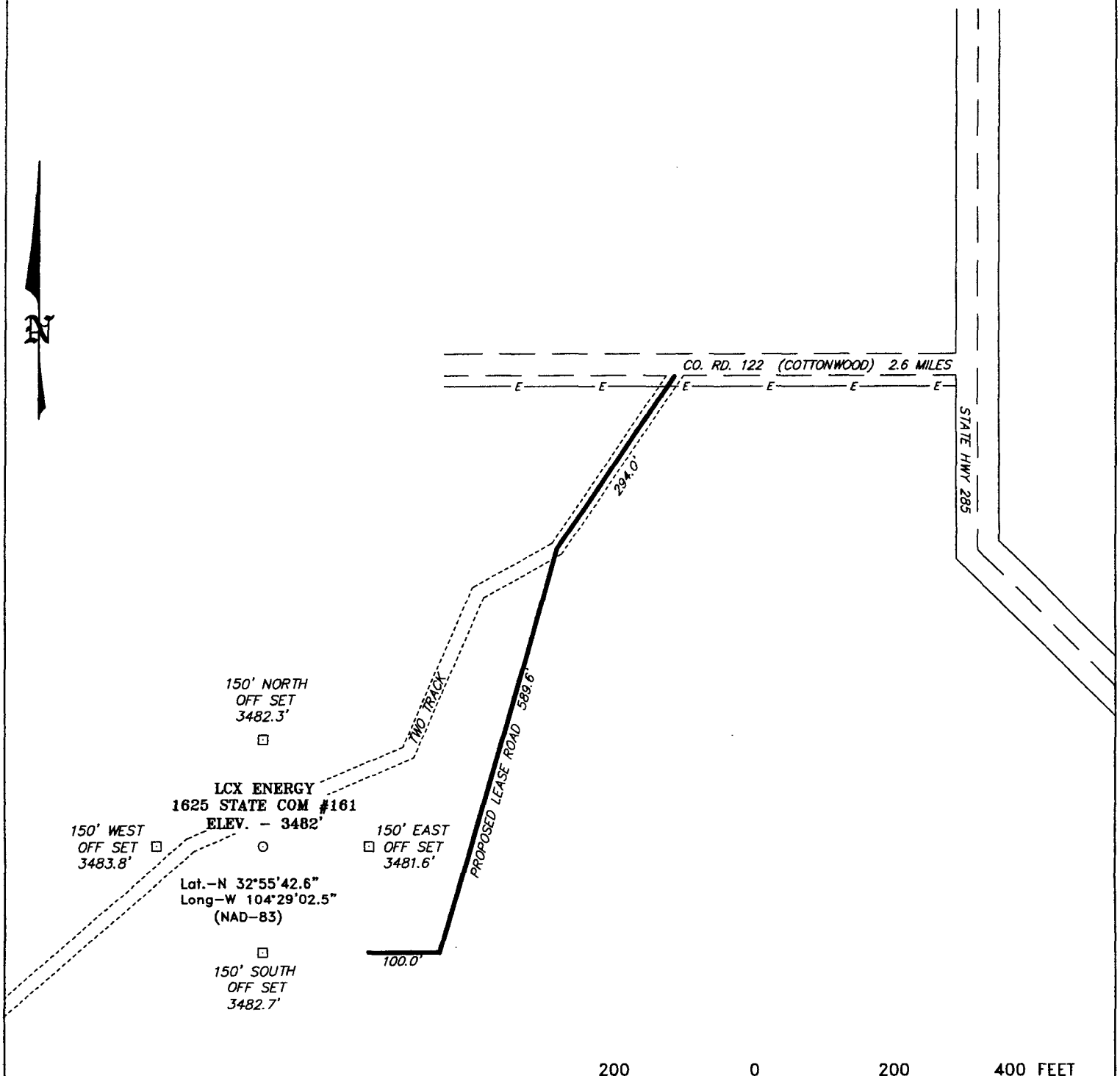
Type 900 Series
3000 psi WP

Choke Manifold Assembly for 3M WP System



SECTION 16, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.,

EDDY COUNTY, **NEW MEXICO.**



Directions to Location:

FROM THE JUNCTION OF US. HWY. 285 AND US HWY 82, PROCEED NORTH ON HWY 285 TO MILE MARKER 76, PROCEED NORTH APPROX. 100 FEET TO CO. RD. 122 (COTTON WOOD), ON CO. RD. 122, PROCEED WEST 2.6 MILE TO PROPOSED LEASE ROAD.

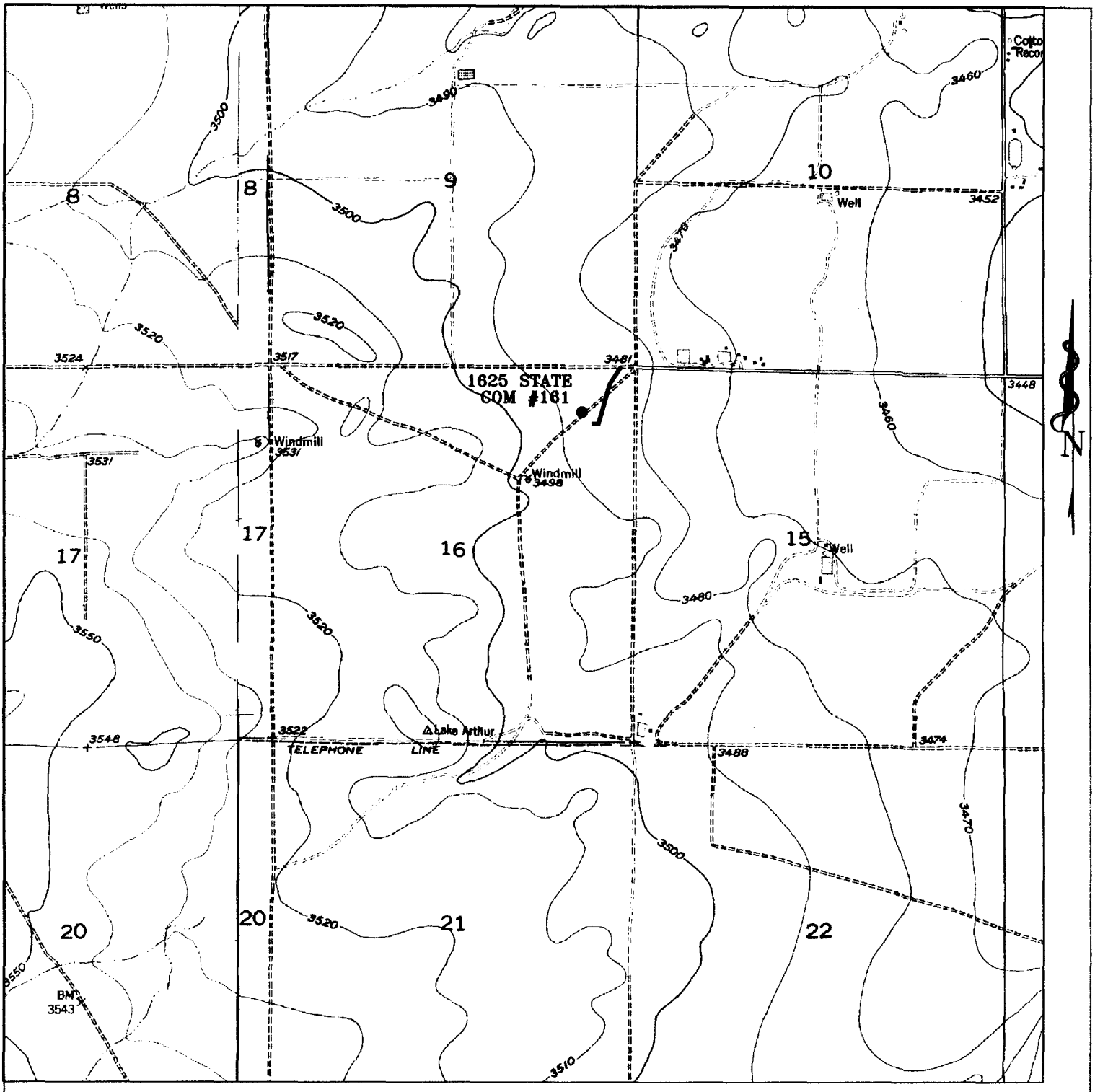
LCX ENERGY

REF: 1625 STATE COM #161 / WELL PAD TOPO

THE 1625 STATE COM No. 161 LOCATED 660' FROM THE NORTH LINE AND 760' FROM THE EAST LINE OF SECTION 16, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 17448	Drawn By: J. M. SMALL		
Date: 12-04-2006	Disk: JMS 17448W	Survey Date: 12-01-2006	Sheet 1 of 1 Sheets

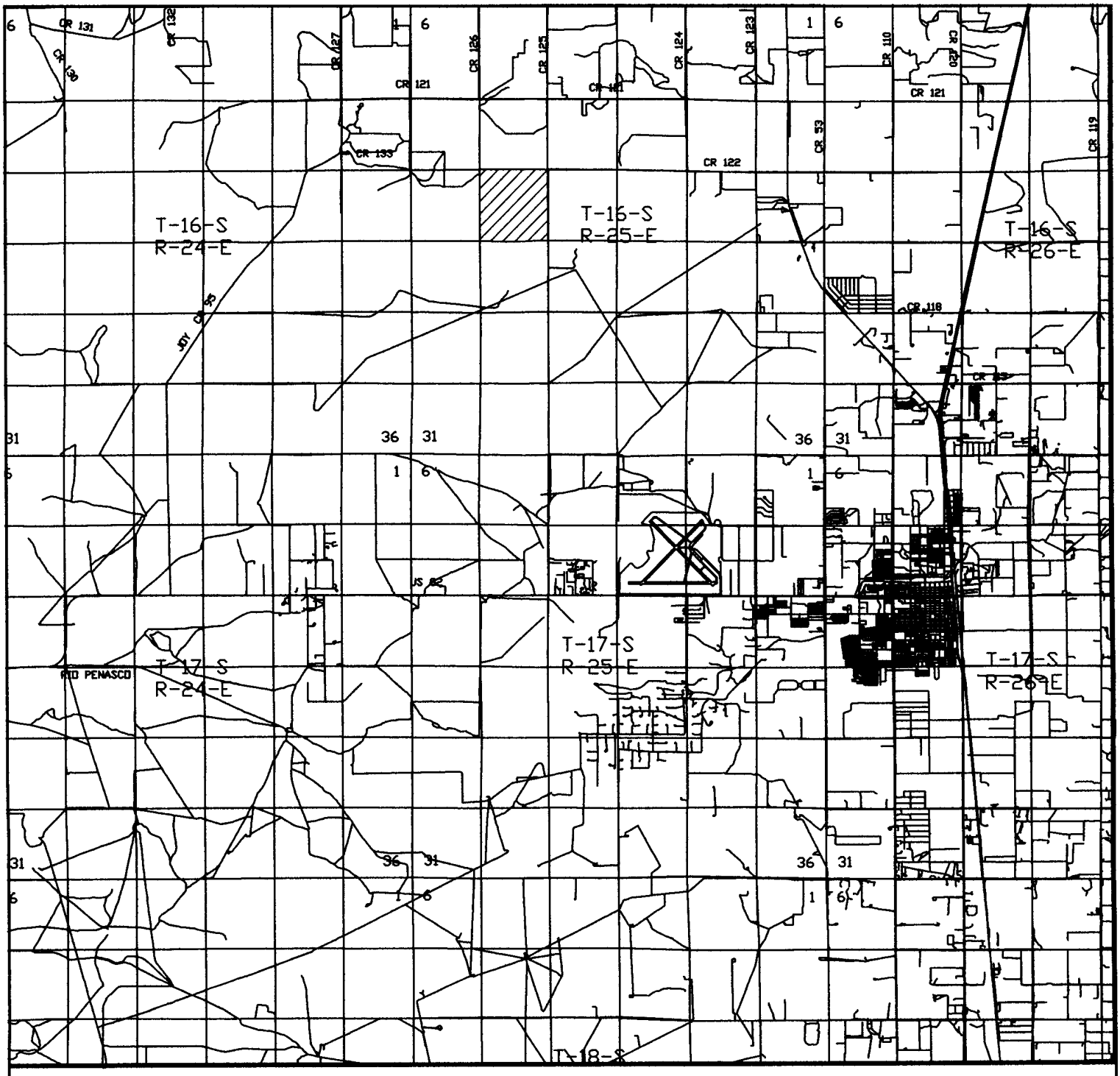


1625 STATE COM #161
Located 660' FNL and 760' FEL
Section 16, Township 16 South, Range 25 East,
N.M.P.M., Eddy County, New Mexico.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number:	JMS 17448T
Survey Date:	12-01-2006
Scale:	1" = 2000'
Date:	12-04-2006

LCX ENERGY



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W.O. Number:	JMS 17448T
Survey Date:	12-01-2006
Scale:	1" = 2 MILES
Date:	12-04-2006

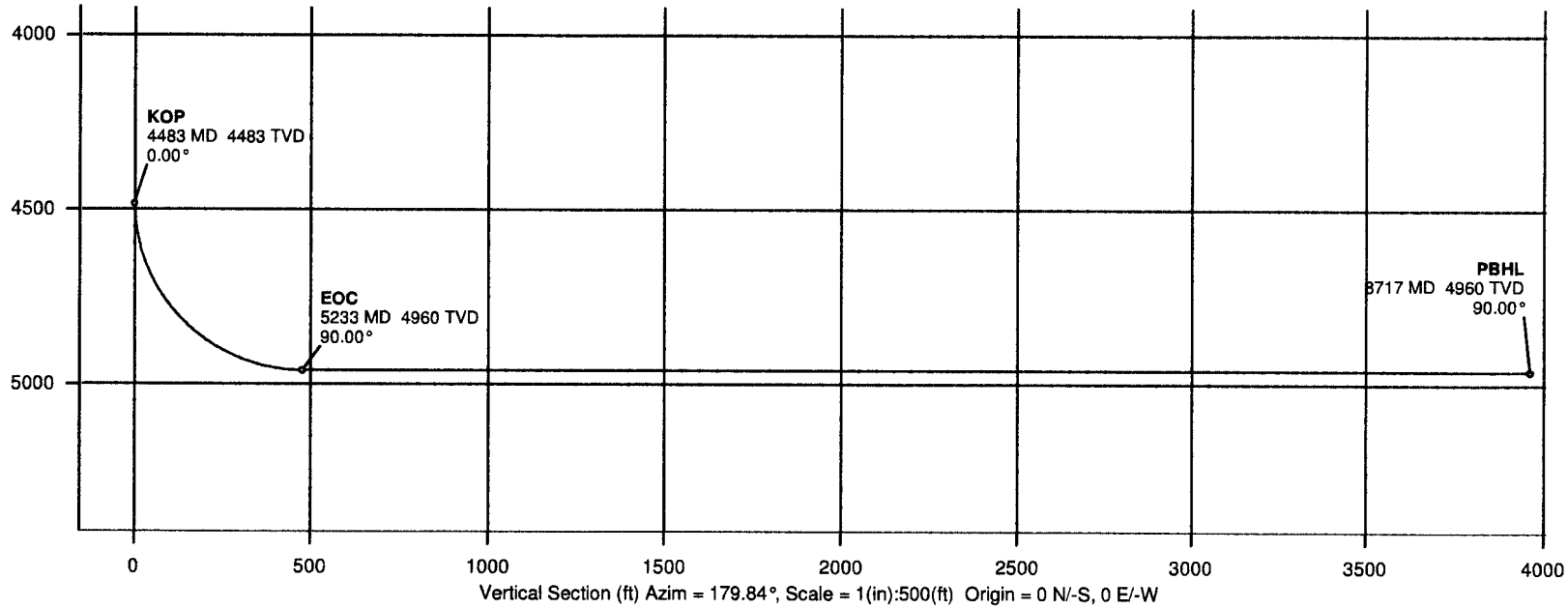
LCX ENERGY

LCX Energy

WELL	FIELD	STRUCTURE
1625 State Com #161	Eddy County, NM Nad 83	1625 State Com #161

Magnetic Parameters				Surface Location				Miscellaneous			
Model: IGRF 2005	Dip: 60.790°	Date: January 29, 2007		Lat: N32 55 42.600	Northing: 701556.11 ftUS	Grid Conv: -0.08191643°		Slot: 1625 State Com #161	TVD Ref: RKB (0.00 ft above)		
	Mag Dec: -8.568°	FS: 48418.6 nT		Lon: W104 29 2.500	Easting: 495100.87 ftUS	Scale Fact: 0.999911539		Plan: 1625 State Com #161_r1	Srvy Date: January 29, 2007		

NAD83 New Mexico State Planes, Eastern Zone, US Feet

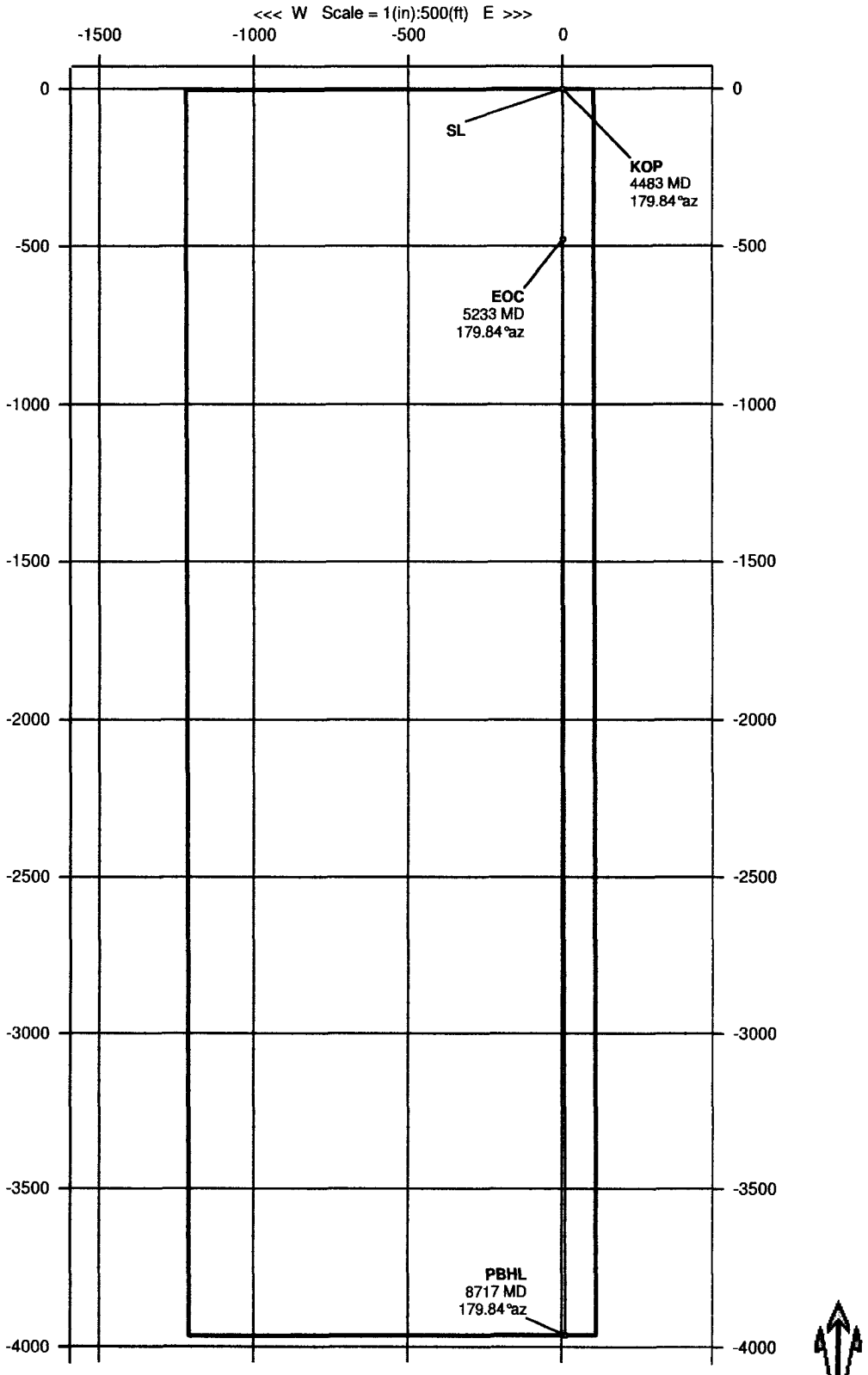


INTREPID
Directional Drilling Specialists

LCX Energy

WELL	FIELD	STRUCTURE
1625 State Com #161	Eddy County, NM Nad 83	1625 State Com #161

Magnetic Parameters				Surface Location				NAD83 New Mexico State Planes, Eastern Zone, US Feet		Miscellaneous			
Model: IGRF 2005	Dip: 60.790°	Date: January 29, 2007		Lat: N32 55 42.600	Northing: 701556.11 ftUS		Grid Conv: -0.08191643°			Slot: 1625 State Com #161	TVD Ref: RKB (0.00 ft above)		
	Mag Dec: +8.568°	FS: 49418.6 nT		Lon: W104 29 2.500	Easting: 495100.87 ftUS		Scale Fact: 0.999911539			Plan: 1625 State Com #161_r1	Srvy Date: January 29, 2007		



INTREPID
Directional Drilling Specialists

INTREPID
Directional Drilling Specialists

Proposal

Report Date:	January 29, 2007	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	LCX Energy	**Vertical Section Azimuth:**	179.840°
Field:	Eddy County, NM Nad 83	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	1625 State Com #161 / 1625 State Com #161	**TVD Reference Datum:**	RKB
Well:	1625 State Com #161	**TVD Reference Elevation:**	0.0 ft relative to
Borehole:	1625 State Com #161	**Sea Bed / Ground Level Elevation:**	0.000 ft relative to
UWI/API#:		**Magnetic Declination:**	8.568°
Survey Name / Date:	1625 State Com #161_r1 / January 29, 2007	**Total Field Strength:**	49418.576 nT
Tort / AHD / DDI / ERD ratio:	90.000° / 3962.02 ft / 5.797 / 0.799	**Magnetic Dip:**	60.790°
Grid Coordinate System:	NAD83 New Mexico State Planes, Eastern Zone, US Feet	**Declination Date:**	January 29, 2007
Location Lat/Long:	N 32 55 42.600, W 104 29 2.500	**Magnetic Declination Model:**	IGRF 2005
Location Grid N/E Y/X:	N 701556.112 ftUS, E 495100.868 ftUS	**North Reference:**	Grid North
Grid Convergence Angle:	-0.08191643°	**Total Corr Mag North -> Grid North:**	+8.650°
Grid Scale Factor:	0.99991154	**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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In	0.00	0.00	179.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	20.00	0.00	179.84	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	40.00	0.00	179.84	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	60.00	0.00	179.84	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	80.00	0.00	179.84	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	100.00	0.00	179.84	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	120.00	0.00	179.84	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	140.00	0.00	179.84	140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	160.00	0.00	179.84	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	180.00	0.00	179.84	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	200.00	0.00	179.84	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	220.00	0.00	179.84	220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	240.00	0.00	179.84	240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	260.00	0.00	179.84	260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	280.00	0.00	179.84	280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	300.00	0.00	179.84	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	320.00	0.00	179.84	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	340.00	0.00	179.84	340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	360.00	0.00	179.84	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	380.00	0.00	179.84	380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	400.00	0.00	179.84	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	420.00	0.00	179.84	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	440.00	0.00	179.84	440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	460.00	0.00	179.84	460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	480.00	0.00	179.84	480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	500.00	0.00	179.84	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
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	540.00	0.00	179.84	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	560.00	0.00	179.84	560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	580.00	0.00	179.84	580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	600.00	0.00	179.84	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	620.00	0.00	179.84	620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	640.00	0.00	179.84	640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	660.00	0.00	179.84	660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	680.00	0.00	179.84	680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	700.00	0.00	179.84	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	720.00	0.00	179.84	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	740.00	0.00	179.84	740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	760.00	0.00	179.84	760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	780.00	0.00	179.84	780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	800.00	0.00	179.84	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	820.00	0.00	179.84	820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	840.00	0.00	179.84	840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	860.00	0.00	179.84	860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	880.00	0.00	179.84	880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	900.00	0.00	179.84	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	920.00	0.00	179.84	920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	940.00	0.00	179.84	940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	960.00	0.00	179.84	960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	980.00	0.00	179.84	980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1000.00	0.00	179.84	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1020.00	0.00	179.84	1020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1040.00	0.00	179.84	1040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1060.00	0.00	179.84	1060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1080.00	0.00	179.84	1080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1100.00	0.00	179.84	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1120.00	0.00	179.84	1120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1140.00	0.00	179.84	1140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1160.00	0.00	179.84	1160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1180.00	0.00	179.84	1180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1200.00	0.00	179.84	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1220.00	0.00	179.84	1220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1240.00	0.00	179.84	1240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1260.00	0.00	179.84	1260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1280.00	0.00	179.84	1280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1300.00	0.00	179.84	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1320.00	0.00	179.84	1320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1340.00	0.00	179.84	1340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1360.00	0.00	179.84	1360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1380.00	0.00	179.84	1380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1400.00	0.00	179.84	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1420.00	0.00	179.84	1420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1440.00	0.00	179.84	1440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1460.00	0.00	179.84	1460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1480.00	0.00	179.84	1480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1500.00	0.00	179.84	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1520.00	0.00	179.84	1520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1540.00	0.00	179.84	1540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1560.00	0.00	179.84	1560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1580.00	0.00	179.84	1580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1600.00	0.00	179.84	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1620.00	0.00	179.84	1620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1640.00	0.00	179.84	1640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1660.00	0.00	179.84	1660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1680.00	0.00	179.84	1680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1700.00	0.00	179.84	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1720.00	0.00	179.84	1720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1740.00	0.00	179.84	1740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1760.00	0.00	179.84	1760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1780.00	0.00	179.84	1780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1800.00	0.00	179.84	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1820.00	0.00	179.84	1820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	1840.00	0.00	179.84	1840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1860.00	0.00	179.84	1860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1880.00	0.00	179.84	1880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1900.00	0.00	179.84	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1920.00	0.00	179.84	1920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1940.00	0.00	179.84	1940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1960.00	0.00	179.84	1960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1980.00	0.00	179.84	1980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2000.00	0.00	179.84	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2020.00	0.00	179.84	2020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2040.00	0.00	179.84	2040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2060.00	0.00	179.84	2060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2080.00	0.00	179.84	2080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2100.00	0.00	179.84	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2120.00	0.00	179.84	2120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2140.00	0.00	179.84	2140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2160.00	0.00	179.84	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2180.00	0.00	179.84	2180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2200.00	0.00	179.84	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2220.00	0.00	179.84	2220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2240.00	0.00	179.84	2240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2260.00	0.00	179.84	2260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2280.00	0.00	179.84	2280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2300.00	0.00	179.84	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2320.00	0.00	179.84	2320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2340.00	0.00	179.84	2340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2360.00	0.00	179.84	2360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2380.00	0.00	179.84	2380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2400.00	0.00	179.84	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2420.00	0.00	179.84	2420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2440.00	0.00	179.84	2440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2460.00	0.00	179.84	2460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2480.00	0.00	179.84	2480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2500.00	0.00	179.84	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2520.00	0.00	179.84	2520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2540.00	0.00	179.84	2540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2560.00	0.00	179.84	2560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2580.00	0.00	179.84	2580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2600.00	0.00	179.84	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2620.00	0.00	179.84	2620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2640.00	0.00	179.84	2640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2660.00	0.00	179.84	2660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2680.00	0.00	179.84	2680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2700.00	0.00	179.84	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2720.00	0.00	179.84	2720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2740.00	0.00	179.84	2740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2760.00	0.00	179.84	2760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2780.00	0.00	179.84	2780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2800.00	0.00	179.84	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2820.00	0.00	179.84	2820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2840.00	0.00	179.84	2840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2860.00	0.00	179.84	2860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2880.00	0.00	179.84	2880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2900.00	0.00	179.84	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	2920.00	0.00	179.84	2920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2940.00	0.00	179.84	2940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2960.00	0.00	179.84	2960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2980.00	0.00	179.84	2980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3000.00	0.00	179.84	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3020.00	0.00	179.84	3020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3040.00	0.00	179.84	3040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3060.00	0.00	179.84	3060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3080.00	0.00	179.84	3080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3100.00	0.00	179.84	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3120.00	0.00	179.84	3120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3140.00	0.00	179.84	3140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3160.00	0.00	179.84	3160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3180.00	0.00	179.84	3180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3200.00	0.00	179.84	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3220.00	0.00	179.84	3220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3240.00	0.00	179.84	3240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3260.00	0.00	179.84	3260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3280.00	0.00	179.84	3280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3300.00	0.00	179.84	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3320.00	0.00	179.84	3320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3340.00	0.00	179.84	3340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3360.00	0.00	179.84	3360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3380.00	0.00	179.84	3380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3400.00	0.00	179.84	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3420.00	0.00	179.84	3420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3440.00	0.00	179.84	3440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3460.00	0.00	179.84	3460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3480.00	0.00	179.84	3480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3500.00	0.00	179.84	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3520.00	0.00	179.84	3520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3540.00	0.00	179.84	3540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3560.00	0.00	179.84	3560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3580.00	0.00	179.84	3580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3600.00	0.00	179.84	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3620.00	0.00	179.84	3620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3640.00	0.00	179.84	3640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3660.00	0.00	179.84	3660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3680.00	0.00	179.84	3680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3700.00	0.00	179.84	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3720.00	0.00	179.84	3720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3740.00	0.00	179.84	3740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3760.00	0.00	179.84	3760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3780.00	0.00	179.84	3780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3800.00	0.00	179.84	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3820.00	0.00	179.84	3820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3840.00	0.00	179.84	3840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3860.00	0.00	179.84	3860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3880.00	0.00	179.84	3880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3900.00	0.00	179.84	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3920.00	0.00	179.84	3920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3940.00	0.00	179.84	3940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3960.00	0.00	179.84	3960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3980.00	0.00	179.84	3980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	4000.00	0.00	179.84	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4020.00	0.00	179.84	4020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4040.00	0.00	179.84	4040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4060.00	0.00	179.84	4060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4080.00	0.00	179.84	4080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4100.00	0.00	179.84	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4120.00	0.00	179.84	4120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4140.00	0.00	179.84	4140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4160.00	0.00	179.84	4160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4180.00	0.00	179.84	4180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4200.00	0.00	179.84	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4220.00	0.00	179.84	4220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4240.00	0.00	179.84	4240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4260.00	0.00	179.84	4260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4280.00	0.00	179.84	4280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4300.00	0.00	179.84	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4320.00	0.00	179.84	4320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4340.00	0.00	179.84	4340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4360.00	0.00	179.84	4360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4380.00	0.00	179.84	4380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4400.00	0.00	179.84	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4420.00	0.00	179.84	4420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4440.00	0.00	179.84	4440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4460.00	0.00	179.84	4460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4480.00	0.00	179.84	4480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
KOP	4482.54	0.00	179.84	4482.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.84M
	4500.00	2.10	179.84	4500.00	0.32	-0.32	0.00	0.32	179.84	12.00	12.00	179.84M
	4520.00	4.50	179.84	4519.96	1.47	-1.47	0.00	1.47	179.84	12.00	12.00	179.84M
	4540.00	6.90	179.84	4539.86	3.45	-3.45	0.01	3.45	179.84	12.00	12.00	HS
	4560.00	9.30	179.84	4559.66	6.27	-6.27	0.02	6.27	179.84	12.00	12.00	HS
	4580.00	11.70	179.84	4579.32	9.91	-9.91	0.03	9.91	179.84	12.00	12.00	HS
	4600.00	14.10	179.84	4598.82	14.38	-14.38	0.04	14.38	179.84	12.00	12.00	HS
	4620.00	16.50	179.84	4618.11	19.65	-19.65	0.06	19.65	179.84	12.00	12.00	HS
	4640.00	18.90	179.84	4637.16	25.73	-25.73	0.07	25.73	179.84	12.00	12.00	HS
	4660.00	21.30	179.84	4655.94	32.60	-32.60	0.09	32.60	179.84	12.00	12.00	HS
	4680.00	23.70	179.84	4674.42	40.25	-40.25	0.12	40.25	179.84	12.00	12.00	HS
	4700.00	26.10	179.84	4692.56	48.67	-48.67	0.14	48.67	179.84	12.00	12.00	HS
	4720.00	28.50	179.84	4710.33	57.84	-57.84	0.17	57.84	179.84	12.00	12.00	HS
	4740.00	30.90	179.84	4727.70	67.75	-67.75	0.19	67.75	179.84	12.00	12.00	HS
	4760.00	33.30	179.84	4744.64	78.38	-78.38	0.23	78.38	179.84	12.00	12.00	HS
	4780.00	35.70	179.84	4761.13	89.70	-89.70	0.26	89.70	179.84	12.00	12.00	HS
	4800.00	38.10	179.84	4777.12	101.71	-101.71	0.29	101.71	179.84	12.00	12.00	HS
	4820.00	40.50	179.84	4792.60	114.37	-114.37	0.33	114.37	179.84	12.00	12.00	HS
	4840.00	42.90	179.84	4807.53	127.68	-127.68	0.37	127.68	179.84	12.00	12.00	HS
	4860.00	45.30	179.84	4821.89	141.59	-141.59	0.41	141.59	179.84	12.00	12.00	HS
	4880.00	47.70	179.84	4835.66	156.10	-156.10	0.45	156.10	179.84	12.00	12.00	HS
	4900.00	50.10	179.84	4848.81	171.17	-171.17	0.49	171.17	179.84	12.00	12.00	HS
	4920.00	52.50	179.84	4861.31	186.77	-186.77	0.54	186.77	179.84	12.00	12.00	HS
	4940.00	54.90	179.84	4873.15	202.89	-202.89	0.58	202.89	179.84	12.00	12.00	HS
	4960.00	57.30	179.84	4884.31	219.49	-219.49	0.63	219.49	179.84	12.00	12.00	HS
	4980.00	59.70	179.84	4894.76	236.54	-236.54	0.68	236.54	179.84	12.00	12.00	HS
	5000.00	62.10	179.84	4904.49	254.01	-254.01	0.73	254.01	179.84	12.00	12.00	HS
	5020.00	64.50	179.84	4913.47	271.88	-271.88	0.78	271.88	179.84	12.00	12.00	HS
	5040.00	66.90	179.84	4921.70	290.11	-290.10	0.83	290.11	179.84	12.00	12.00	HS
	5060.00	69.30	179.84	4929.16	308.66	-308.66	0.89	308.66	179.84	12.00	12.00	HS

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	5080.00	71.70	179.84	4935.84	327.51	-327.51	0.94	327.51	179.84	12.00	12.00	HS
	5100.00	74.10	179.84	4941.72	346.63	-346.62	1.00	346.63	179.84	12.00	12.00	HS
	5120.00	76.50	179.84	4946.80	365.97	-365.97	1.05	365.97	179.84	12.00	12.00	HS
	5140.00	78.90	179.84	4951.06	385.51	-385.51	1.11	385.51	179.84	12.00	12.00	HS
	5160.00	81.30	179.84	4954.50	405.21	-405.21	1.16	405.21	179.84	12.00	12.00	HS
	5180.00	83.70	179.84	4957.11	425.04	-425.03	1.22	425.04	179.84	12.00	12.00	HS
	5200.00	86.10	179.84	4958.89	444.95	-444.95	1.28	444.95	179.84	12.00	12.00	HS
	5220.00	88.50	179.84	4959.84	464.93	-464.93	1.34	464.93	179.84	12.00	12.00	HS
EOC	5232.54	90.00	179.84	4960.00	477.46	-477.46	1.37	477.46	179.84	12.00	12.00	HS
	5240.00	90.00	179.84	4960.00	484.93	-484.93	1.39	484.93	179.84	0.00	0.00	---
	5260.00	90.00	179.84	4960.00	504.93	-504.93	1.45	504.93	179.84	0.00	0.00	---
	5280.00	90.00	179.84	4960.00	524.93	-524.93	1.51	524.93	179.84	0.00	0.00	---
	5300.00	90.00	179.84	4960.00	544.93	-544.93	1.57	544.93	179.84	0.00	0.00	---
	5320.00	90.00	179.84	4960.00	564.93	-564.93	1.62	564.93	179.84	0.00	0.00	---
	5340.00	90.00	179.84	4960.00	584.93	-584.93	1.68	584.93	179.84	0.00	0.00	---
	5360.00	90.00	179.84	4960.00	604.93	-604.93	1.74	604.93	179.84	0.00	0.00	---
	5380.00	90.00	179.84	4960.00	624.93	-624.93	1.80	624.93	179.84	0.00	0.00	---
	5400.00	90.00	179.84	4960.00	644.93	-644.93	1.85	644.93	179.84	0.00	0.00	---
	5420.00	90.00	179.84	4960.00	664.93	-664.93	1.91	664.93	179.84	0.00	0.00	---
	5440.00	90.00	179.84	4960.00	684.93	-684.93	1.97	684.93	179.84	0.00	0.00	---
	5460.00	90.00	179.84	4960.00	704.93	-704.93	2.03	704.93	179.84	0.00	0.00	---
	5480.00	90.00	179.84	4960.00	724.93	-724.93	2.08	724.93	179.84	0.00	0.00	---
	5500.00	90.00	179.84	4960.00	744.93	-744.93	2.14	744.93	179.84	0.00	0.00	---
	5520.00	90.00	179.84	4960.00	764.93	-764.93	2.20	764.93	179.84	0.00	0.00	---
	5540.00	90.00	179.84	4960.00	784.93	-784.93	2.26	784.93	179.84	0.00	0.00	---
	5560.00	90.00	179.84	4960.00	804.93	-804.93	2.31	804.93	179.84	0.00	0.00	---
	5580.00	90.00	179.84	4960.00	824.93	-824.93	2.37	824.93	179.84	0.00	0.00	---
	5600.00	90.00	179.84	4960.00	844.93	-844.93	2.43	844.93	179.84	0.00	0.00	---
	5620.00	90.00	179.84	4960.00	864.93	-864.93	2.49	864.93	179.84	0.00	0.00	---
	5640.00	90.00	179.84	4960.00	884.93	-884.93	2.54	884.93	179.84	0.00	0.00	---
	5660.00	90.00	179.84	4960.00	904.93	-904.93	2.60	904.93	179.84	0.00	0.00	---
	5680.00	90.00	179.84	4960.00	924.93	-924.93	2.66	924.93	179.84	0.00	0.00	---
	5700.00	90.00	179.84	4960.00	944.93	-944.93	2.72	944.93	179.84	0.00	0.00	---
	5720.00	90.00	179.84	4960.00	964.93	-964.93	2.77	964.93	179.84	0.00	0.00	---
	5740.00	90.00	179.84	4960.00	984.93	-984.93	2.83	984.93	179.84	0.00	0.00	---
	5760.00	90.00	179.84	4960.00	1004.93	-1004.93	2.89	1004.93	179.84	0.00	0.00	---
	5780.00	90.00	179.84	4960.00	1024.93	-1024.93	2.95	1024.93	179.84	0.00	0.00	---
	5800.00	90.00	179.84	4960.00	1044.93	-1044.93	3.00	1044.93	179.84	0.00	0.00	---
	5820.00	90.00	179.84	4960.00	1064.93	-1064.93	3.06	1064.93	179.84	0.00	0.00	---
	5840.00	90.00	179.84	4960.00	1084.93	-1084.93	3.12	1084.93	179.84	0.00	0.00	---
	5860.00	90.00	179.84	4960.00	1104.93	-1104.93	3.18	1104.93	179.84	0.00	0.00	---
	5880.00	90.00	179.84	4960.00	1124.93	-1124.93	3.23	1124.93	179.84	0.00	0.00	---
	5900.00	90.00	179.84	4960.00	1144.93	-1144.92	3.29	1144.93	179.84	0.00	0.00	---
	5920.00	90.00	179.84	4960.00	1164.93	-1164.92	3.35	1164.93	179.84	0.00	0.00	---
	5940.00	90.00	179.84	4960.00	1184.93	-1184.92	3.41	1184.93	179.84	0.00	0.00	---
	5960.00	90.00	179.84	4960.00	1204.93	-1204.92	3.46	1204.93	179.84	0.00	0.00	---
	5980.00	90.00	179.84	4960.00	1224.93	-1224.92	3.52	1224.93	179.84	0.00	0.00	---
	6000.00	90.00	179.84	4960.00	1244.93	-1244.92	3.58	1244.93	179.84	0.00	0.00	---
	6020.00	90.00	179.84	4960.00	1264.93	-1264.92	3.64	1264.93	179.84	0.00	0.00	---
	6040.00	90.00	179.84	4960.00	1284.93	-1284.92	3.69	1284.93	179.84	0.00	0.00	---
	6060.00	90.00	179.84	4960.00	1304.93	-1304.92	3.75	1304.93	179.84	0.00	0.00	---
	6080.00	90.00	179.84	4960.00	1324.93	-1324.92	3.81	1324.93	179.84	0.00	0.00	---
	6100.00	90.00	179.84	4960.00	1344.93	-1344.92	3.87	1344.93	179.84	0.00	0.00	---
	6120.00	90.00	179.84	4960.00	1364.93	-1364.92	3.92	1364.93	179.84	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	6140.00	90.00	179.84	4960.00	1384.93	-1384.92	3.98	1384.93	179.84	0.00	0.00	---
	6160.00	90.00	179.84	4960.00	1404.93	-1404.92	4.04	1404.93	179.84	0.00	0.00	---
	6180.00	90.00	179.84	4960.00	1424.93	-1424.92	4.09	1424.93	179.84	0.00	0.00	---
	6200.00	90.00	179.84	4960.00	1444.93	-1444.92	4.15	1444.93	179.84	0.00	0.00	---
	6220.00	90.00	179.84	4960.00	1464.93	-1464.92	4.21	1464.93	179.84	0.00	0.00	---
	6240.00	90.00	179.84	4960.00	1484.93	-1484.92	4.27	1484.93	179.84	0.00	0.00	---
	6260.00	90.00	179.84	4960.00	1504.93	-1504.92	4.32	1504.93	179.84	0.00	0.00	---
	6280.00	90.00	179.84	4960.00	1524.93	-1524.92	4.38	1524.93	179.84	0.00	0.00	---
	6300.00	90.00	179.84	4960.00	1544.93	-1544.92	4.44	1544.93	179.84	0.00	0.00	---
	6320.00	90.00	179.84	4960.00	1564.93	-1564.92	4.50	1564.93	179.84	0.00	0.00	---
	6340.00	90.00	179.84	4960.00	1584.93	-1584.92	4.55	1584.93	179.84	0.00	0.00	---
	6360.00	90.00	179.84	4960.00	1604.93	-1604.92	4.61	1604.93	179.84	0.00	0.00	---
	6380.00	90.00	179.84	4960.00	1624.93	-1624.92	4.67	1624.93	179.84	0.00	0.00	---
	6400.00	90.00	179.84	4960.00	1644.93	-1644.92	4.73	1644.93	179.84	0.00	0.00	---
	6420.00	90.00	179.84	4960.00	1664.93	-1664.92	4.78	1664.93	179.84	0.00	0.00	---
	6440.00	90.00	179.84	4960.00	1684.93	-1684.92	4.84	1684.93	179.84	0.00	0.00	---
	6460.00	90.00	179.84	4960.00	1704.93	-1704.92	4.90	1704.93	179.84	0.00	0.00	---
	6480.00	90.00	179.84	4960.00	1724.93	-1724.92	4.96	1724.93	179.84	0.00	0.00	---
	6500.00	90.00	179.84	4960.00	1744.93	-1744.92	5.01	1744.93	179.84	0.00	0.00	---
	6520.00	90.00	179.84	4960.00	1764.93	-1764.92	5.07	1764.93	179.84	0.00	0.00	---
	6540.00	90.00	179.84	4960.00	1784.93	-1784.92	5.13	1784.93	179.84	0.00	0.00	---
	6560.00	90.00	179.84	4960.00	1804.93	-1804.92	5.19	1804.93	179.84	0.00	0.00	---
	6580.00	90.00	179.84	4960.00	1824.93	-1824.92	5.24	1824.93	179.84	0.00	0.00	---
	6600.00	90.00	179.84	4960.00	1844.93	-1844.92	5.30	1844.93	179.84	0.00	0.00	---
	6620.00	90.00	179.84	4960.00	1864.93	-1864.92	5.36	1864.93	179.84	0.00	0.00	---
	6640.00	90.00	179.84	4960.00	1884.93	-1884.92	5.42	1884.93	179.84	0.00	0.00	---
	6660.00	90.00	179.84	4960.00	1904.93	-1904.92	5.47	1904.93	179.84	0.00	0.00	---
	6680.00	90.00	179.84	4960.00	1924.93	-1924.92	5.53	1924.93	179.84	0.00	0.00	---
	6700.00	90.00	179.84	4960.00	1944.93	-1944.92	5.59	1944.93	179.84	0.00	0.00	---
	6720.00	90.00	179.84	4960.00	1964.93	-1964.92	5.65	1964.93	179.84	0.00	0.00	---
	6740.00	90.00	179.84	4960.00	1984.93	-1984.92	5.70	1984.93	179.84	0.00	0.00	---
	6760.00	90.00	179.84	4960.00	2004.93	-2004.92	5.76	2004.93	179.84	0.00	0.00	---
	6780.00	90.00	179.84	4960.00	2024.93	-2024.92	5.82	2024.93	179.84	0.00	0.00	---
	6800.00	90.00	179.84	4960.00	2044.93	-2044.92	5.88	2044.93	179.84	0.00	0.00	---
	6820.00	90.00	179.84	4960.00	2064.93	-2064.92	5.93	2064.93	179.84	0.00	0.00	---
	6840.00	90.00	179.84	4960.00	2084.93	-2084.92	5.99	2084.93	179.84	0.00	0.00	---
	6860.00	90.00	179.84	4960.00	2104.93	-2104.92	6.05	2104.93	179.84	0.00	0.00	---
	6880.00	90.00	179.84	4960.00	2124.93	-2124.92	6.11	2124.93	179.84	0.00	0.00	---
	6900.00	90.00	179.84	4960.00	2144.93	-2144.92	6.16	2144.93	179.84	0.00	0.00	---
	6920.00	90.00	179.84	4960.00	2164.93	-2164.92	6.22	2164.93	179.84	0.00	0.00	---
	6940.00	90.00	179.84	4960.00	2184.93	-2184.92	6.28	2184.93	179.84	0.00	0.00	---
	6960.00	90.00	179.84	4960.00	2204.93	-2204.92	6.34	2204.93	179.84	0.00	0.00	---
	6980.00	90.00	179.84	4960.00	2224.93	-2224.92	6.39	2224.93	179.84	0.00	0.00	---
	7000.00	90.00	179.84	4960.00	2244.93	-2244.92	6.45	2244.93	179.84	0.00	0.00	---
	7020.00	90.00	179.84	4960.00	2264.93	-2264.92	6.51	2264.93	179.84	0.00	0.00	---
	7040.00	90.00	179.84	4960.00	2284.93	-2284.92	6.57	2284.93	179.84	0.00	0.00	---
	7060.00	90.00	179.84	4960.00	2304.93	-2304.92	6.62	2304.93	179.84	0.00	0.00	---
	7080.00	90.00	179.84	4960.00	2324.93	-2324.92	6.68	2324.93	179.84	0.00	0.00	---
	7100.00	90.00	179.84	4960.00	2344.93	-2344.92	6.74	2344.93	179.84	0.00	0.00	---
	7120.00	90.00	179.84	4960.00	2364.93	-2364.92	6.80	2364.93	179.84	0.00	0.00	---
	7140.00	90.00	179.84	4960.00	2384.93	-2384.92	6.85	2384.93	179.84	0.00	0.00	---
	7160.00	90.00	179.84	4960.00	2404.93	-2404.92	6.91	2404.93	179.84	0.00	0.00	---
	7180.00	90.00	179.84	4960.00	2424.93	-2424.92	6.97	2424.93	179.84	0.00	0.00	---
	7200.00	90.00	179.84	4960.00	2444.93	-2444.92	7.03	2444.93	179.84	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	7220.00	90.00	179.84	4960.00	2464.93	-2464.92	7.08	2464.93	179.84	0.00	0.00	---
	7240.00	90.00	179.84	4960.00	2484.93	-2484.92	7.14	2484.93	179.84	0.00	0.00	---
	7260.00	90.00	179.84	4960.00	2504.93	-2504.92	7.20	2504.93	179.84	0.00	0.00	---
	7280.00	90.00	179.84	4960.00	2524.93	-2524.92	7.26	2524.93	179.84	0.00	0.00	---
	7300.00	90.00	179.84	4960.00	2544.93	-2544.92	7.31	2544.93	179.84	0.00	0.00	---
	7320.00	90.00	179.84	4960.00	2564.93	-2564.92	7.37	2564.93	179.84	0.00	0.00	---
	7340.00	90.00	179.84	4960.00	2584.93	-2584.92	7.43	2584.93	179.84	0.00	0.00	---
	7360.00	90.00	179.84	4960.00	2604.93	-2604.92	7.49	2604.93	179.84	0.00	0.00	---
	7380.00	90.00	179.84	4960.00	2624.93	-2624.92	7.54	2624.93	179.84	0.00	0.00	---
	7400.00	90.00	179.84	4960.00	2644.93	-2644.92	7.60	2644.93	179.84	0.00	0.00	---
	7420.00	90.00	179.84	4960.00	2664.93	-2664.92	7.66	2664.93	179.84	0.00	0.00	---
	7440.00	90.00	179.84	4960.00	2684.93	-2684.92	7.72	2684.93	179.84	0.00	0.00	---
	7460.00	90.00	179.84	4960.00	2704.93	-2704.92	7.77	2704.93	179.84	0.00	0.00	---
	7480.00	90.00	179.84	4960.00	2724.93	-2724.92	7.83	2724.93	179.84	0.00	0.00	---
	7500.00	90.00	179.84	4960.00	2744.93	-2744.92	7.89	2744.93	179.84	0.00	0.00	---
	7520.00	90.00	179.84	4960.00	2764.93	-2764.92	7.95	2764.93	179.84	0.00	0.00	---
	7540.00	90.00	179.84	4960.00	2784.93	-2784.92	8.00	2784.93	179.84	0.00	0.00	---
	7560.00	90.00	179.84	4960.00	2804.93	-2804.92	8.06	2804.93	179.84	0.00	0.00	---
	7580.00	90.00	179.84	4960.00	2824.93	-2824.92	8.12	2824.93	179.84	0.00	0.00	---
	7600.00	90.00	179.84	4960.00	2844.93	-2844.92	8.18	2844.93	179.84	0.00	0.00	---
	7620.00	90.00	179.84	4960.00	2864.93	-2864.92	8.23	2864.93	179.84	0.00	0.00	---
	7640.00	90.00	179.84	4960.00	2884.93	-2884.92	8.29	2884.93	179.84	0.00	0.00	---
	7660.00	90.00	179.84	4960.00	2904.93	-2904.92	8.35	2904.93	179.84	0.00	0.00	---
	7680.00	90.00	179.84	4960.00	2924.93	-2924.92	8.41	2924.93	179.84	0.00	0.00	---
	7700.00	90.00	179.84	4960.00	2944.93	-2944.92	8.46	2944.93	179.84	0.00	0.00	---
	7720.00	90.00	179.84	4960.00	2964.93	-2964.92	8.52	2964.93	179.84	0.00	0.00	---
	7740.00	90.00	179.84	4960.00	2984.93	-2984.92	8.58	2984.93	179.84	0.00	0.00	---
	7760.00	90.00	179.84	4960.00	3004.93	-3004.92	8.64	3004.93	179.84	0.00	0.00	---
	7780.00	90.00	179.84	4960.00	3024.93	-3024.92	8.69	3024.93	179.84	0.00	0.00	---
	7800.00	90.00	179.84	4960.00	3044.93	-3044.92	8.75	3044.93	179.84	0.00	0.00	---
	7820.00	90.00	179.84	4960.00	3064.93	-3064.92	8.81	3064.93	179.84	0.00	0.00	---
	7840.00	90.00	179.84	4960.00	3084.93	-3084.92	8.87	3084.93	179.84	0.00	0.00	---
	7860.00	90.00	179.84	4960.00	3104.93	-3104.92	8.92	3104.93	179.84	0.00	0.00	---
	7880.00	90.00	179.84	4960.00	3124.93	-3124.92	8.98	3124.93	179.84	0.00	0.00	---
	7900.00	90.00	179.84	4960.00	3144.93	-3144.92	9.04	3144.93	179.84	0.00	0.00	---
	7920.00	90.00	179.84	4960.00	3164.93	-3164.92	9.10	3164.93	179.84	0.00	0.00	---
	7940.00	90.00	179.84	4960.00	3184.93	-3184.92	9.15	3184.93	179.84	0.00	0.00	---
	7960.00	90.00	179.84	4960.00	3204.93	-3204.92	9.21	3204.93	179.84	0.00	0.00	---
	7980.00	90.00	179.84	4960.00	3224.93	-3224.92	9.27	3224.93	179.84	0.00	0.00	---
	8000.00	90.00	179.84	4960.00	3244.93	-3244.92	9.33	3244.93	179.84	0.00	0.00	---
	8020.00	90.00	179.84	4960.00	3264.93	-3264.92	9.38	3264.93	179.84	0.00	0.00	---
	8040.00	90.00	179.84	4960.00	3284.93	-3284.92	9.44	3284.93	179.84	0.00	0.00	---
	8060.00	90.00	179.84	4960.00	3304.93	-3304.92	9.50	3304.93	179.84	0.00	0.00	---
	8080.00	90.00	179.84	4960.00	3324.93	-3324.92	9.56	3324.93	179.84	0.00	0.00	---
	8100.00	90.00	179.84	4960.00	3344.93	-3344.92	9.61	3344.93	179.84	0.00	0.00	---
	8120.00	90.00	179.84	4960.00	3364.93	-3364.92	9.67	3364.93	179.84	0.00	0.00	---
	8140.00	90.00	179.84	4960.00	3384.93	-3384.92	9.73	3384.93	179.84	0.00	0.00	---
	8160.00	90.00	179.84	4960.00	3404.93	-3404.92	9.79	3404.93	179.84	0.00	0.00	---
	8180.00	90.00	179.84	4960.00	3424.93	-3424.92	9.84	3424.93	179.84	0.00	0.00	---
	8200.00	90.00	179.84	4960.00	3444.93	-3444.92	9.90	3444.93	179.84	0.00	0.00	---
	8220.00	90.00	179.84	4960.00	3464.93	-3464.92	9.96	3464.93	179.84	0.00	0.00	---
	8240.00	90.00	179.84	4960.00	3484.93	-3484.92	10.01	3484.93	179.84	0.00	0.00	---
	8260.00	90.00	179.84	4960.00	3504.93	-3504.92	10.07	3504.93	179.84	0.00	0.00	---
	8280.00	90.00	179.84	4960.00	3524.93	-3524.92	10.13	3524.93	179.84	0.00	0.00	---

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)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	8300.00	90.00	179.84	4960.00	3544.93	-3544.92	10.19	3544.93	179.84	0.00	0.00	---
	8320.00	90.00	179.84	4960.00	3564.93	-3564.91	10.24	3564.93	179.84	0.00	0.00	---
	8340.00	90.00	179.84	4960.00	3584.93	-3584.91	10.30	3584.93	179.84	0.00	0.00	---
	8360.00	90.00	179.84	4960.00	3604.93	-3604.91	10.36	3604.93	179.84	0.00	0.00	---
	8380.00	90.00	179.84	4960.00	3624.93	-3624.91	10.42	3624.93	179.84	0.00	0.00	---
	8400.00	90.00	179.84	4960.00	3644.93	-3644.91	10.47	3644.93	179.84	0.00	0.00	---
	8420.00	90.00	179.84	4960.00	3664.93	-3664.91	10.53	3664.93	179.84	0.00	0.00	---
	8440.00	90.00	179.84	4960.00	3684.93	-3684.91	10.59	3684.93	179.84	0.00	0.00	---
	8460.00	90.00	179.84	4960.00	3704.93	-3704.91	10.65	3704.93	179.84	0.00	0.00	---
	8480.00	90.00	179.84	4960.00	3724.93	-3724.91	10.70	3724.93	179.84	0.00	0.00	---
	8500.00	90.00	179.84	4960.00	3744.93	-3744.91	10.76	3744.93	179.84	0.00	0.00	---
	8520.00	90.00	179.84	4960.00	3764.93	-3764.91	10.82	3764.93	179.84	0.00	0.00	---
	8540.00	90.00	179.84	4960.00	3784.93	-3784.91	10.88	3784.93	179.84	0.00	0.00	---
	8560.00	90.00	179.84	4960.00	3804.93	-3804.91	10.93	3804.93	179.84	0.00	0.00	---
	8580.00	90.00	179.84	4960.00	3824.93	-3824.91	10.99	3824.93	179.84	0.00	0.00	---
	8600.00	90.00	179.84	4960.00	3844.93	-3844.91	11.05	3844.93	179.84	0.00	0.00	---
	8620.00	90.00	179.84	4960.00	3864.93	-3864.91	11.11	3864.93	179.84	0.00	0.00	---
	8640.00	90.00	179.84	4960.00	3884.93	-3884.91	11.16	3884.93	179.84	0.00	0.00	---
	8660.00	90.00	179.84	4960.00	3904.93	-3904.91	11.22	3904.93	179.84	0.00	0.00	---
	8680.00	90.00	179.84	4960.00	3924.93	-3924.91	11.28	3924.93	179.84	0.00	0.00	---
	8700.00	90.00	179.84	4960.00	3944.93	-3944.91	11.34	3944.93	179.84	0.00	0.00	---
PBHL	8717.09	90.00	179.84	4960.00	3962.02	-3962.00	11.39	3962.02	179.84	0.00	0.00	---

LCX ENERGY, LLC.
1625 STATE COM. # 161
UNIT 'M' SECTION 16
T16S-R25E EDDY CO. NM
30-015-35412

This well and its anticipated production facility are not expected to have any Hydrogen Sulfide releases, as there not been any indication of any Hydrogen Sulfide in any of the other wells drilled in the immediate area. The nearest dwelling to this location is approximately .3 mile, however a Hydrogen Sulfide contingency plan will be submitted for this location. LCX ENERGY, LLC. Will have a company representative on location while drilling and completing of this well. An unmanned Hydrogen Sulfide safety trailer with monitoring equipment will also be stationed on the location during this operation below the surface casing setting depth of 350' plus or minus and remain there till MD-of 8750'+- is reached.

TABLE OF CONTENS

General H2S Emergency Actions:

1. All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area"
2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus)
3. Always use the "buddy system"
4. Isolate the well/problem if possible
5. Account for all personnel
6. Display the proper colors warning all unsuspection personnel of the danger at hand.
7. Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.

EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H2S

1. All personnel will don the self contained breathing apparatus.
2. Remove all personnel to the "safe area". (always use the buddy system).
3. Contact company personnel if not on location.
4. Set in motion the steps to protect and or remove the general public to an upwind "safe area". Maintain strict security & safety procedures while dealing with the source.
5. No entry to any unauthorized personnel.
6. Notify the appropriate agencies: City Police-City Street (s)
   State Police- State Rd
   County Sheriff – County Rd.
7. Call the NMOCD

If at this time the supervising person determines the release of H2S cannot be contained to the site location and the general public is in harms way he will take the necessary steps to protect the workers and the public.
EMERGENCY CALL LIST: (Start and continue until ONE of these people have been contacted)

	OFFICE	MOBILE	HOME
LCX ENERGY, LLC.	432-262-4011		
KELVIN FISHER		432-634-5621	432-694-1306
LARRY GILLETTE	432-262-4011	432-634-5530	432-262-7120
ROLAN LISLE	432-634-2632	DRILLING CONSULTANT WILL BE ON LOCATION AT ALL TIMES.	

EMERGENCY RESPONSE NUMBERS:

State Police:	Eddy County		505 748 9718
State Police:	Lea County		505 392 5588
Sheriff	Eddy County		505 746 2701
Sheriff	Lea County		
Emergency Medical Ser	Eddy County		911 or 505 746 2701
(Ambulance)	Lea County	Eunice	911 or 505 394 3258
Emergency Response	Eddy County SERC		505 476 9620
	Lea County		
Artesia Police Dept			505 746 5001
Artesia Fire Dept			505 746 5001

Carlsbad Police Dept		505 885 2111
Carlsbad Fire Dept		505 885 3125
Loco Hills Police Dept		505 677 2349
Jal Police Dept		505 395 2501
Jal Fire Dept		505 395 2221
Jal ambulance		505 395 2221
Eunice Police Dept		505 394 0112
Eunice Fire Dept		505 394 3258
Eunice Ambulance		505 394 3258
Hobbs Police Dept		
NMOCD	District 1 (Lea, Roosevelt, Curry)	505 393 6161
	District 2 (Eddy Chavez)	505 748 1283
Lea County Information		505 393 8203
Indian Fire & Safety		505-393-3093
BJ Services	Artesia	505 746 3140
	Hobbs	505 392 5556
Halliburton	Artesia	1 800 523 2482
	Hobbs	1 800 523 2482
Wild Well Control	Midland	432 550 6202
	Mobile	432 553 1166

PROTECTION OF THE GENERAL PUBLIC (ROE):

- 100 ppm at any public area (any place not associated with this site)
- 500 ppm at any public road (any road which the general public may travel)
- 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to do the calculations, and there is a reasonable expectation that H2S could be present in concentrations greater than 100 ppm in the gas mixture

CALCULATIONS FOR THE 100 PPM (ROE) "Pasquill-Gifford equation"

X = [(1.589) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)

CALCULATION FOR THE 500 PPM ROE:

X = [(.4546) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)

Example:

If a well/facility has been determined to have 150 / 500 ppm H2S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm X= [(1.589) (.00015) (100,000 cfd)] to the power of (.6258)
X= 7 ft

500 ppm X= [(.4546) (.0005) (100,000 cfd)] to the power of (.6258)
X = 3.3 ft.

(These calculations will be forwarded to the appropriate District NMOCD office when Applicable)

PUBLIC EVACUATION PLAN:

- 1. Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H2S safety, shall monitor with detection equipment the H2S concentration, wind and area exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. **(All monitoring equipment shall be UL approved, for use in class 1**

groups A,B,C &D, Division 1, hazardous locations. All monitor will have a minimum capability of measuring H2S , oxygen, and flammable values).

- Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:

- 1. Human life and/or property are in danger
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTION FOR IGNITION:

- 1. Two people are required. They must be equipped with positive pressure, self contained breathing apparatus and a "D" ring style full body, OSHA approved safety harness. Non flammable rope will be attached.

- 2. One of the people will be qualified safety person who will test the atmosphere for H2S, Oxygen & LFL. The other person will be the company supervisor; he is responsible for igniting the well.

- 3. Ignite up wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a ± 500 ft. range to ignite the gas.

- 4. Prior to ignition, make a final check for combustible gases.

- 5. Following ignition, continue with the emergency actions & procedures as before.

REQUIRED EMERGENCY EQUIPMENT:

- 1. Breathing apparatus:
  - Rescue Packs (SCBA) – 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
  - Work/Escape packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
  - Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.

- 2. Signage & Flagging:

  - One color code condition sign will be placed at the entrance to the site reflection the possible conditions at the site.
  - A colored condition flag will be on display, reflecting the condition at the site at the time.

- 3. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

- 4. Wind Socks: Two wind socks will be placed in strategic locations, visible from all angles.

- 5. H2S detectors and alarms: The stationary detector with thre sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days ora as needed. The sensors will be placed in the following places: (Gas sample tubes will be stored in the safety trailer)

  - Rig Floor
  - Bell Nipple
  - End of Flow line or where well bore fluid are being discharged.

- 6. Auxiliary Rescue Equipment:

  - Stretcher
  - Two OSHA full body harness
  - 100 ft 5/8 inch OSHA approved rope

- 1-20# class ABC fire extinguisher
- Communication via cell phones on location and vehicles on location.

USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED:
  - Working near the top or on top of a tank
  - Disconnecting any line where H2S can reasonably be expected
  - Sampling air in the area to determine if toxic concentrations of H2S exist.
  - Working in areas where over 10 ppm on H2S has been detected.
  - At any teim there is a doubt as the level of H2S in the area.

- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous locaton.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.
- Air quality shall be continuously be checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected
- All SCBA shall be inspected monthly.

RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H2S) POISONING:

- Do not panic
- Remain Calm & think
- Get on the breathing apparatus

- Remove the victim to the safe breathing area as quickly as possible. Up wind an uphill from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary
- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

HYDROGEN SULFIDE TOXIC EFFECTS

H2S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H2S is approximately 20% heavier than air (Sp. Gr= 1.19)(Air = 1) and colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and is 5-6 times more toxic than carbon monoxide.

Various Gases

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen Sulfide	H2S	1.19	10ppm 15 ppm	100 ppm/hr	600 ppm
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO2	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO2	1.52	5000 ppm	5%	10%
Methane	CH4	0.55	90,000	Combustible @ 5%	N/A

Threshold limit: Concentrations at which it is believed that all workers may be repeatedly exposed, day after day without adverse effects.

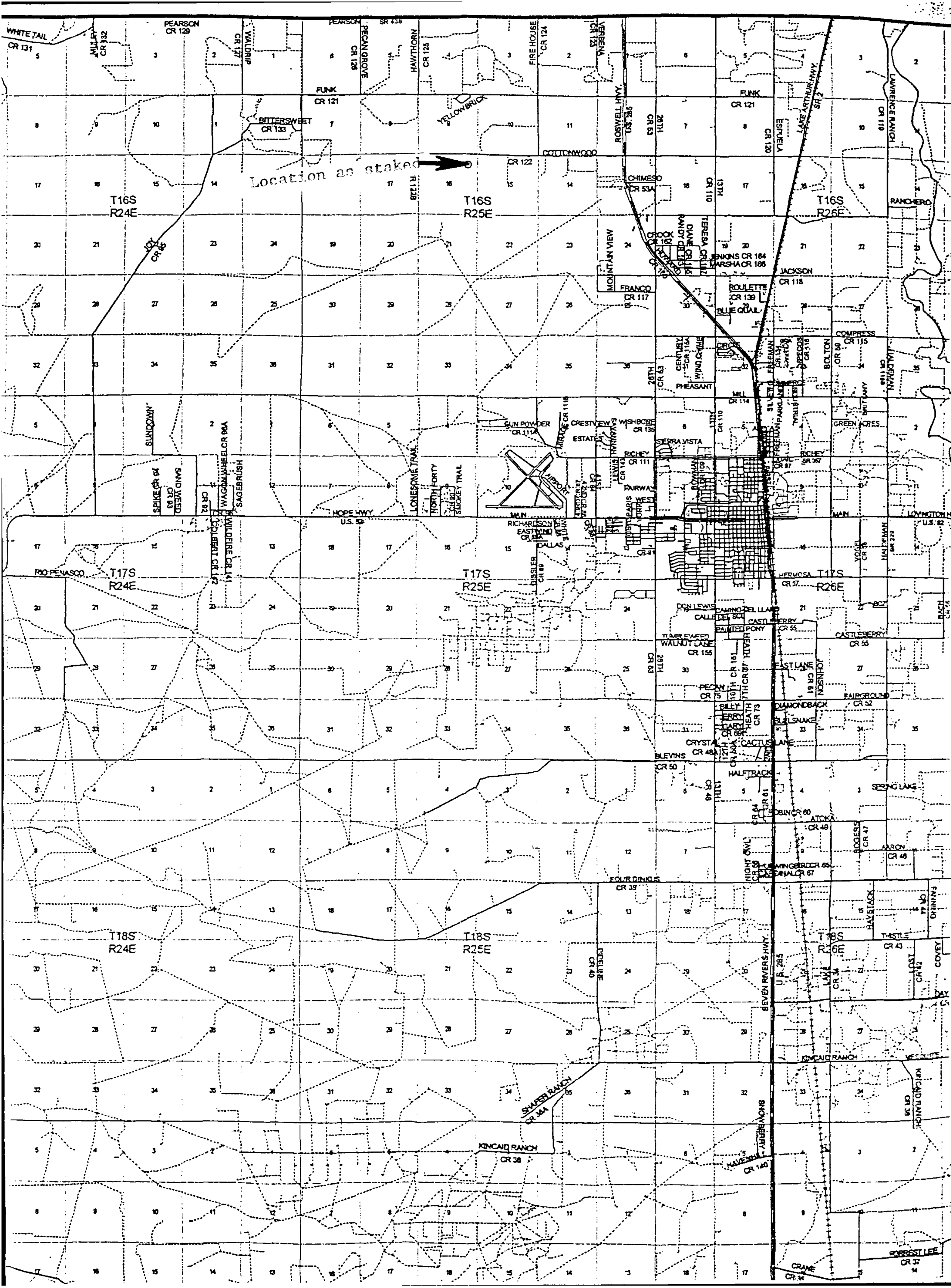
Hazardous Limit: Concentrations that may cause death

Lethal Concentrations: Concentrations that will cause death with short term exposure

Threshold limit - 10 ppm: NIOSH guide to chemical hazards

PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCENTRATION		PHYSICAL EFFECTS
.001%	10 PPM	Obvious and unpleasant odor. Safe for 8 hr exposure
.005%	50 ppm	Can cause some flu like symptoms and can cause pneumonia
.01%	100 ppm	Kills the sense of smell in 3-15 minutes. May irritate the eyes and throat.
.02%	200 ppm	Kills the sense of smell rapidly. Severly irritates the eyes and throat. Severe flu like symptoms after 4 or more ours. May cause lung damage and or death.
.06%	600 ppm	Loss of consciousness quickly, death will result if not rescued promptly.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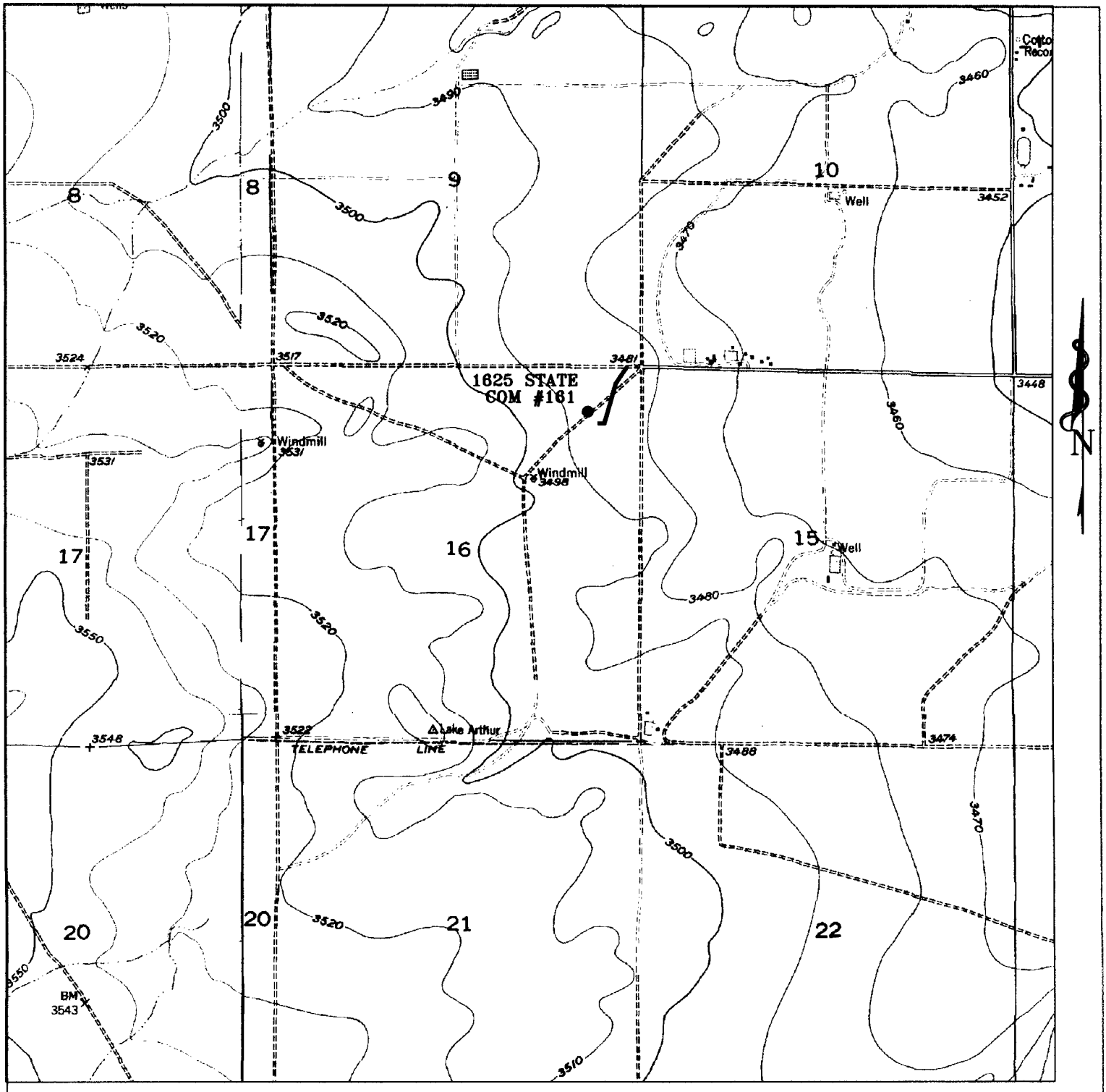
PEARSON
CR 129
FUNK
CR 121
BITTERSWEET
CR 133
YELLOWBRICK
COTTONWOOD
CR 122
ROSWELL HWY.
U.S. 285
LAKE ARTHUR HWY.
SR 2
LAWRENCE RANCH
CR 119
CHIMESO
CR 53A
JOY
CR 65
JACKSON
CR 118
FRANCO
CR 117
ROULETTE
CR 139
BLUE QUAIL
COMPRESS
CR 115
PHEASANT
MILL
CR 114
GUN POWDER
CR 111A
CRESTVIEW
ESTATES
WISHBONE
CR 135
SIERRA VISTA
RICHEY
CR 111
AIRPORT
SUNDOWN
SAGEBRUSH
LONESOME TRAIL
NORTH FORTY
SMOKEY TRAIL
HOPE HWY.
U.S. 82
MAIN
LOVINGTON HWY.
U.S. 82
RIO PENASCO
DALLAS
HERMOSA
CR 57
GREEN ACRES
DON LEWIS
CAMINO DEL LLANO
CASTLEBERRY
CR 55
TUMBLEWEED
WALNUT LANE
CR 155
PONY
FAST LANE
JOHNSON
CR 51
PECAN
CR 75
FAIRGROUND
CR 52
DIAMONDBACK
BULLSNAKE
CRYSTAL
CR 48A
CACTUS LANE
BLEVINS
CR 50
HALFTRACK
SPRING LAKE
ATOKA
CR 49
ROGERS
CR 47
AARON
CR 46
NIGHT OWL
FOUR DINKUS
CR 39
HAYSTACK
THISTLE
CR 43
SEVEN RIVERS HWY.
U.S. 285
PIPELINE
CR 40
KINCAID RANCH
MESQUITE
CR 36
SHAFER RANCH
CR 38A
KINCAID RANCH
CR 38
SNOWBERRY
HAVENHILL
CR 140
FORREST LEE
CR 37
CRANE

12



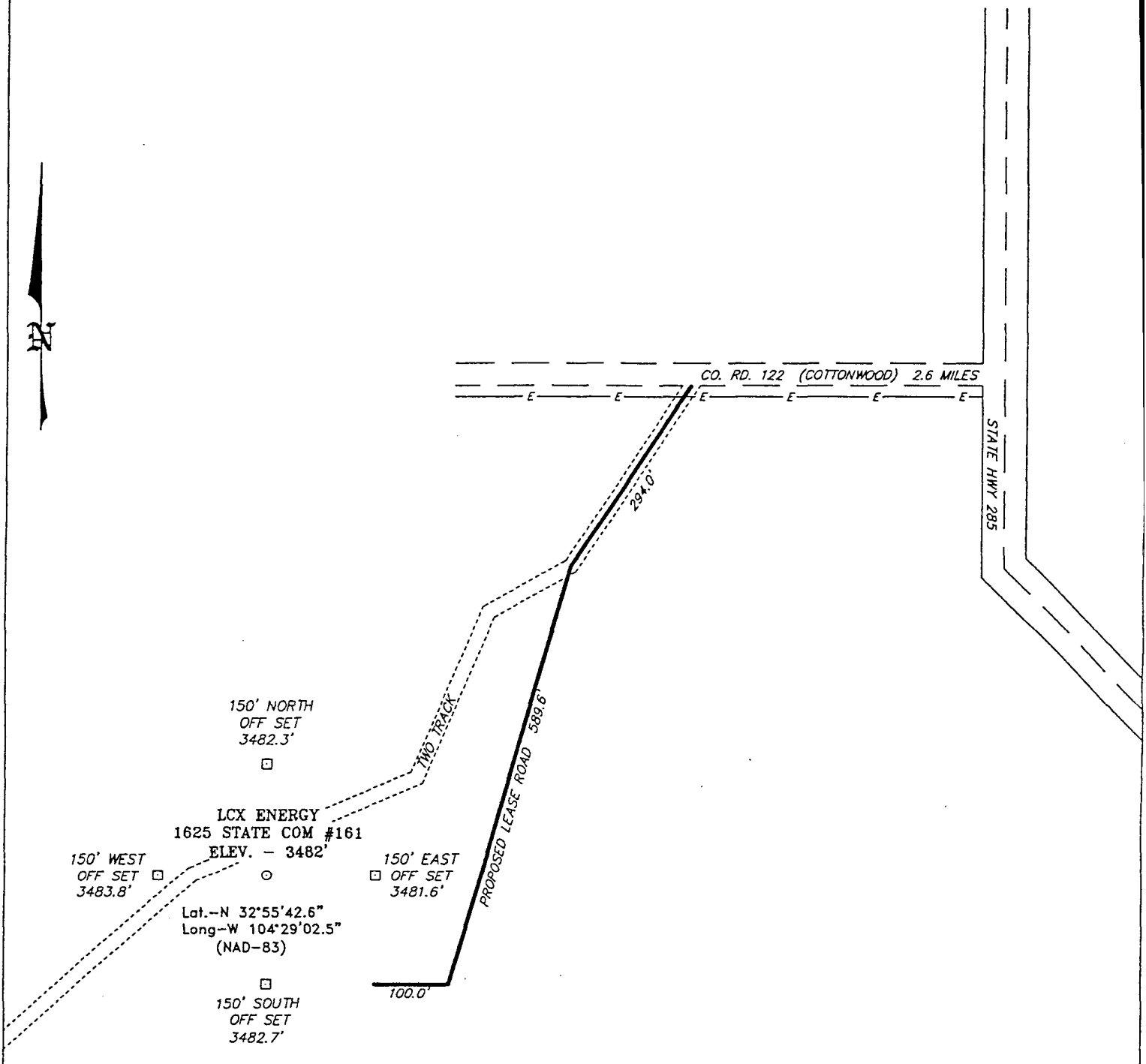
PROPOSED LEASE ROAD TO THE 1625 STATE COM #161
Section 16, Township 16 South, Range 25 East,
N.M.P.M., Eddy County, New Mexico.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number:	JMS 17548T
Survey Date:	12-01-2006
Scale:	1" = 2000'
Date:	12-12-2006

LCX ENERGY

SECTION 16, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



200 0 200 400 FEET

SCALE: 1" = 200'

Directions to Location:

FROM THE JUNCTION OF US. HWY. 285 AND US HWY 82, PROCEED NORTH ON HWY 285 TO MILE MARKER 76, PROCEED NORTH APPROX. 100 FEET TO CO. RD. 122 (COTTON WOOD), ON CO. RD. 122, PROCEED WEST 2.6 MILE TO PROPOSED LEASE ROAD.

LCX ENERGY

REF: 1625 STATE COM #161 / WELL PAD TOPO

THE 1625 STATE COM No. 161 LOCATED 660' FROM THE NORTH LINE AND 760' FROM THE EAST LINE OF SECTION 16, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 17448	Drawn By: J. M. SMALL
Date: 12-04-2006	Disk: JMS 17448W
Survey Date: 12-01-2006	Sheet 1 of 1 Sheets