Form 3160-3
(July 1992)

5-05-08 18007 Larry

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

N.M. Oil Cons. Div. Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

RECEIVED
AUG 25 2005
OCD-ARTESIA

5. LEASE DESIGNATION AND SERIAL NO.: NM-90947

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: ---

1a. TYPE OF WORK: DRILL [XX] 0893 DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [XX] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: 34279 — 1625 FEDERAL COM. # 311H

2. NAME OF OPERATOR: LCX ENERGY, LLC. (FRANK NIX 432-682-8553) 218885

9. API WELL NO.: 30-015-34313

3. ADDRESS AND TELEPHONE NO.: 6 DESTA DRIVE SUITE 6800 MIDLAND, TEXAS 79705 (432-682-8553)

10. FIELD AND POOL, OR WILDCAT: COTTONWOOD CREEK WOLFCAMP West

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) SUBJECT TO LIKE APPROVAL BY STATE
At surface: 660' FSL & 1880' FWL SECTION 31 T16S-R25E EDDY CO. NM
At proposed prod. zone: 660' FNL & 1880' FWL SECTION 31 T16S-R25E

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SECTION 31 T16S-R25E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 5 miles Northwest of Artesia New Mexico.

12. COUNTY OR PARISH: EDDY CO. | 13. STATE: NEW MEXICO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
660'	400	320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
2740'	4950'	ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3626' GR.

22. APPROX. DATE WORK WILL START*: WHEN APPROVED

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Conductor 20"	NA	40"	Cement to surface W/Redi-mix.
17½"	H-40 13 3/8"	48# WITNESS	350	400 Sx. Circulate cement
12¼"	J-55 9 5/8"	40# WITNESS	1250'	700 Sx. " "
8 3/4"	J-55 7"	26#	5000'	550 Sx. " "
6 1/8"	HDL 4½"	11.6#	MD 8790 TVD4938	425 Sx. Cement to top of liner

SEE ATTACHED SHEET

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Roswell Controlled Water Basin

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Joe T Janica TITLE Agent DATE 07/05/05

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /s/ Tony J. Herrell TITLE FIELD MANAGER DATE AUG 24 2005

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

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.

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000
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
	~~75260~~ 75260	COTTONWOOD CREEK-WOLFCAMP, WEST

Property Code	Property Name	Well Number
	1625 FED COM	311

OGRID No.	Operator Name	Elevation
218885	LCX ENERGY, LLC	3626'

Surface Location

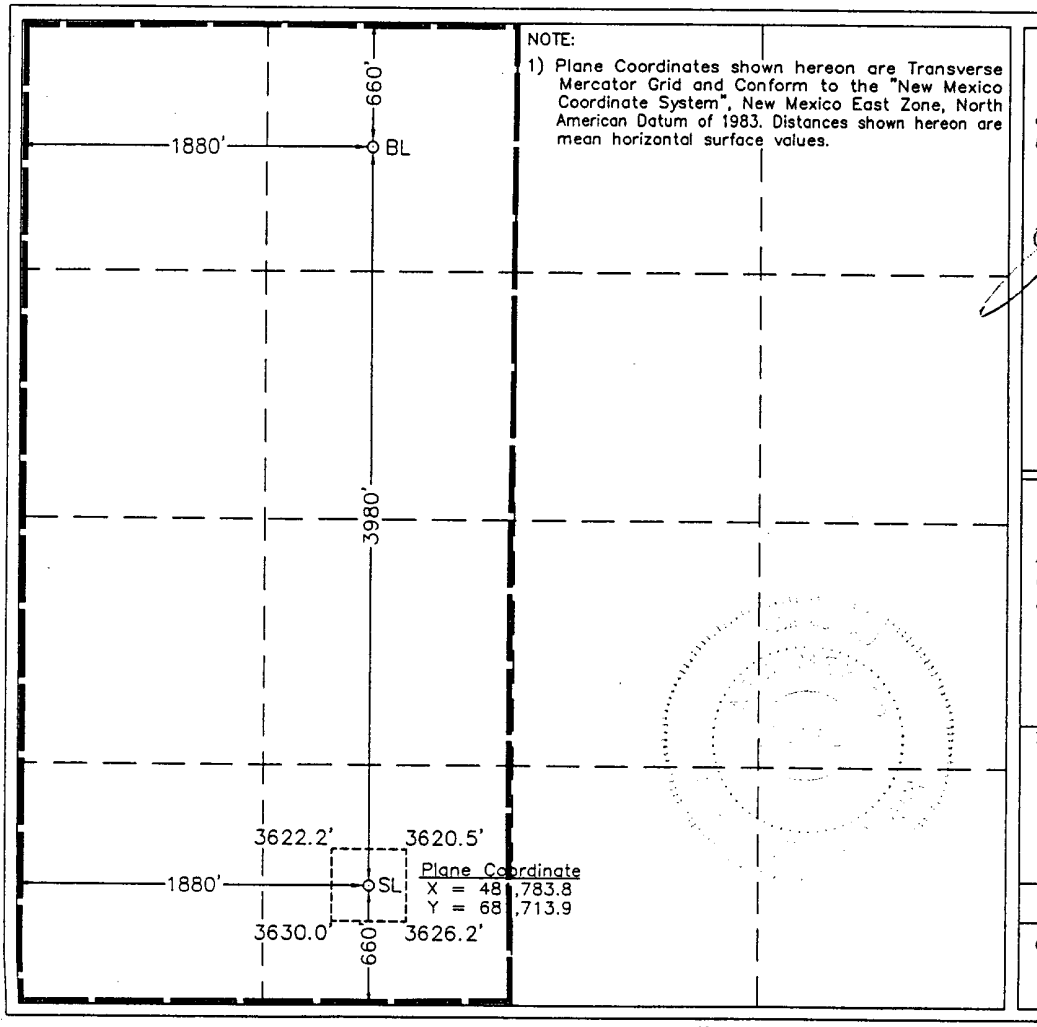
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	31	16 S	25 E		660	SOUTH	1880	WEST	EDDY

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
C	31	16 S	25 E		660	NORTH	1880	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.

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

07/05/05
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 upervison and that the same is true and orrect to the best of my belief.

June 20, 2005
Date Surveyed

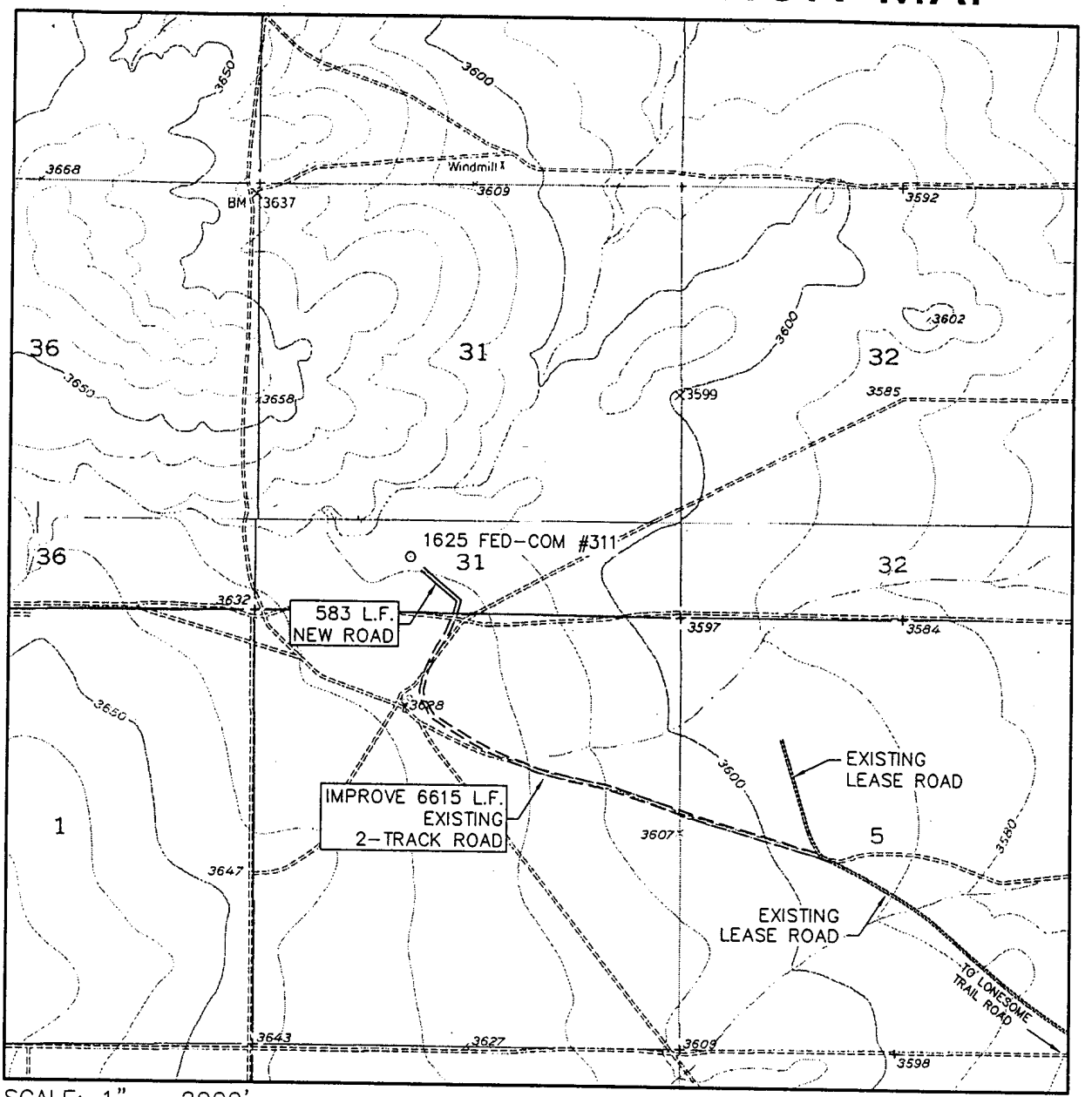
JSR
Signature & Seal of Professional Surveyor

W.O. Num. 2005-0495

Certificate No. MACON McDONALD 12185

EXHIBIT "A"

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOPE NE - 20'

SEC. 31 TWP. 16-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1880' FWL & 660' FSL

ELEVATION 3626'

OPERATOR LCX ENERGY, LLC

LEASE 1625 FED-COM

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

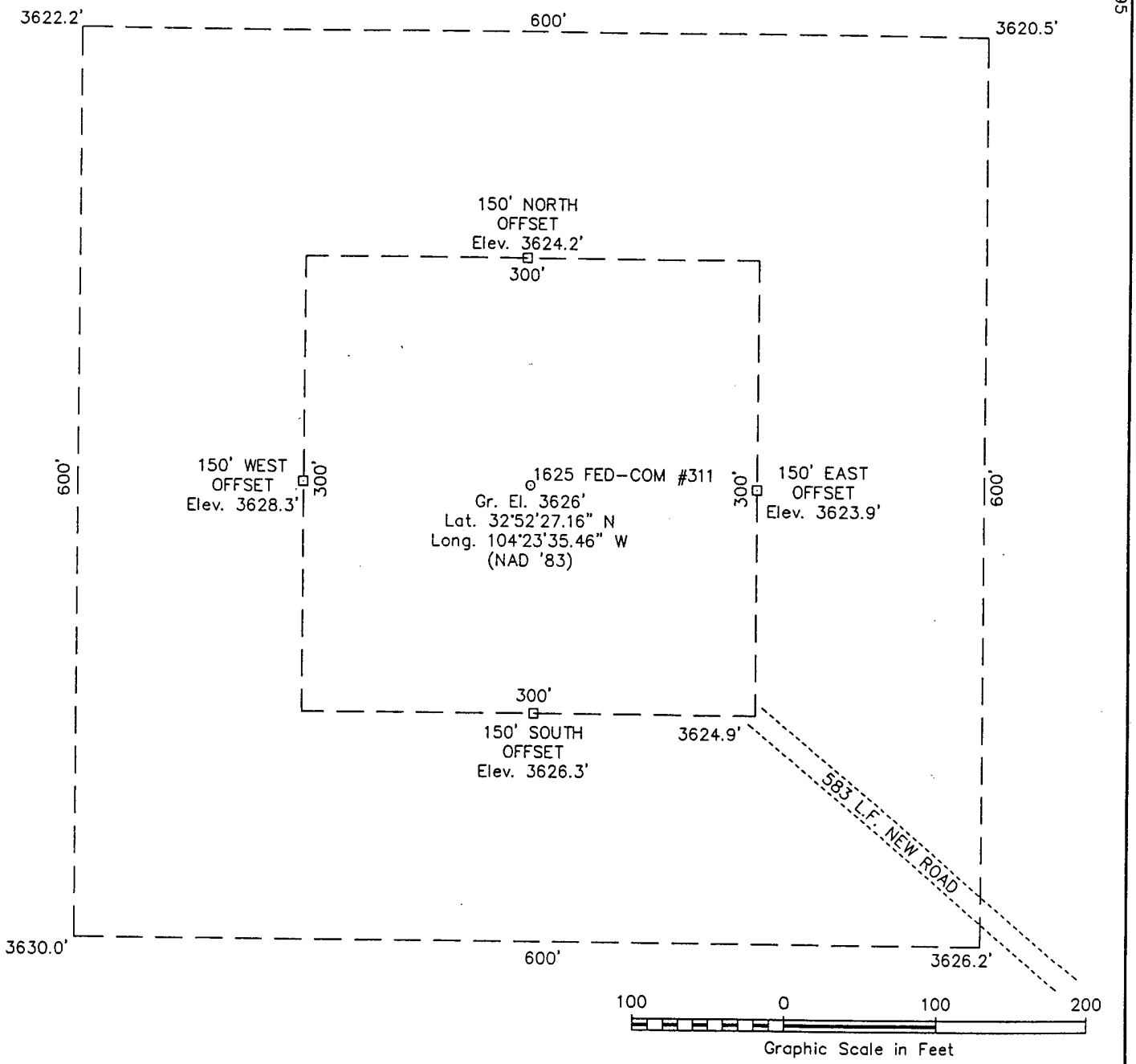
WEST COMPANY of Midland, Inc.

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

SECTION 31, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.

EDDY COUNTY, NEW MEXICO

L-2005-0495



DRIVING DIRECTIONS

From the intersection of US Highway 82 and US Highway 285 in Artesia, go West on US Highway 82 for 5.9 miles to Lonesome Trail Road. Turn Right and go North on Lonesome Trail road for 1.0 miles to an existing lease road on the left. Turn left and go Northwest on the existing lease road for 0.8 miles to an existing 2-track road to the left. Turn left and go West and then North on the existing 2-track road for 1.25 miles to a point located 750 feet Southeast of the location flag.

PERENCO, LLC

1625 FED COM #311

Located 660' FSL & 1880' FWL, Section 31
Township 16 S, Range 25 E, N.M.P.M.
Eddy County, New Mexico

Drawn By: JSR	Date: June 22, 2005
Scale: 1"=100'	Field Book: 272 / 53-54
Revision Date:	Quadrangle: Espuela
W.O. No: 2005-0495	Dwg. No.: L-2005-0495

WEST COMPANY of Midland, Inc.

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

APPLICATION TO DRILL

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is providedfor your consideration.

1. Location of well: SHL 660' FSL & 1880' FWL SECTION 31 T16S-R25E EDDY CO. NM
   BHL 660' FNL & 1880' FWL SECTION 31 T16S-R25E EDDY CO. NM
2. Ground Elevation above Sea Level: 3626' GR.

3. Geological age of surface formation: - Quaternary Deposits:

4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.

5. Proposed drilling depth: MD 8790' TVD 4937'

6. Estimated tops of geological markers:

San Andres	577'	Abo	3872'
Glorieta	1712'	Wolfcamp	4700'
Tubb	3197'		

7. Possible mineral bearing formations:

Abo	Gas
Wolfcamp	Gas

8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
26"	0-40'	20"	NA	NA	NA	Conductor
17½"	0-350'	13 3/8"	48#	8-R	ST&C	H-40
12¼"	0-1250'	9 5/8"	40#	8-R	ST&C	N-80
8 3/4"	0-5000'	7"	26#	8-R	LT&C	J-55
6 1/8"	4390-8790'	4½"	11.6	BUTT.	HDL	N-80

APPLICATION TO DRILL

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 350' of 13 3/8" 48# H-40 ST&C casing. Cement with 400 Sx. of Class "C" cement + additives, circulate cement.
9 5/8"	Intermediate	Set 1250' of 9 5/8" 40# N-80 ST&C casing. Cement with 700 Sx. of Class "C" cement + additives. Circulate cement to surface.
7"	2nd Intermediate	Set 5000' of 7" 26# L-80 LT&C casing. Cement with 700 Sx. of Class "C" cement + additives estimate TOC 900' FS.
4½"	Production Liner	Set 4400' of 4½" 11.6# L-80 HDL casing. Liner to be hung at 4390'. This liner will be pre-perforated and no cement will be used.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams, and bottom pipe rams. The B.O.P. will be nipped up on the 9 5/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when the drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected in this well.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE SYSTEM
40-350'	8.4-8.7	29-34	NC	Fresh water Spud Mud add paper to control seepage.
350-1250'	8.4-8.7	29-38	NC	Fresh water use Gel for viscosity control and paper for seepage control.
1250-5000'	8.4-8.7	29-40	NC	Same as above using high viscosity sweeps to clean hole.
5000-8790' MD	8.4-8.8	29-36	NC	Fresh water use high viscosity Polymer sweeps to clean hole.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, & casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

A. Open hole logs: Dual Laterolog, SNP. LDT, MSFL, Gamma Ray, Caliper from TD back to 9 5/8" casing shoe.
B. Cased hole logs: Gamma Ray, Neutron from 9 5/8" casing shoe back to surface.
C. No cores are planned at this time
D. Mud logger may be used at the request of the Staff Geologist.
E. No DST's are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H^2S in this area. If H^2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2500 PSI, and Estimated BHT 110°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 28 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The WOLFCAMP formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as a Gas well.

1. All Company and Contract personnel admitted on location must be trained by a qualified H_2S safety instructor to the following:

   A. Characteristics of H_2S
   B. Physical effects and hazzards
   C. Proper use of safety equipment and life support systems.
   D. Principle and operation of H_2S detectors, warning system and briefing areas.
   E. Evacuation procedure, routes and first aid.
   F. Proper use of 30 minute pressure demand air pack.

2. H_2S Detection and Alarm Systems

   A. H_2S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.

3. Windsock and/or wind streamers

   A. Windsock at mudpit area should be high enough to be visible.
   B. Windsock at briefing area should be high enough to be visible.
   C. There should be a windsock at entrance to location.

4. Condition Flags and Signs

   A. Warning sign on access road to location.
   B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H_2S present in dangerous concentration. Only emergency personnel admitted to location.

5. Well control equipment

   A. See exhibit "E" & "E-1"

6. Communication

   A. While working under masks chalkboards will be used for communication.
   B. Hand signals will be used where chalk board is inappropriate.
   C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.

7. Drillstem Testing

   A. Exhausts will be watered.
   B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
   C. If the location is near to a dwelling a closed DST will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

8. Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.

9. If H_2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H_2S scavengers if necessary.

SURFACE USE PLAN

LCX ENERGY, LLC.
1625 FEDERAL COM. #311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

1. EXISTING ROADS & PROPOSED ROADS: Area maps; Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.

   A. Exhibit "A" shows the proposed well site as staked.

   B. From Artesia New Mexico take U.S. Hi-way 82 West toward Hope New Mexico go 6 miles to Lonesometrail Road, turn Right (North) go 1 mile and bear Left (Northwest) follow lease road 1.9± miles to stock tank bear Right follow 2 track road approximately 900' bear Northwest go 600' to location.

   C. Exhibit "C" is a topographic map showing existing roads and proposed roads.

2. PLANNED ACCESS ROADS: Approximately 600' pf new road will be constructed.

   A. The access roads will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.

   B, Gradient of all roads will be less than 5.00%.

   C. If turn-outs are necessary they will be constructed.

   D. If needed roads will be surfaced with a mimimum of 4" of caliche. This material will be obtained from a local source.

   E. Center-line for new roads will be flagged. Earth-work will be will be done as field conditions require.

   F. Culverts will be placed in the access road if they are necessary. The roads will be constructed to utilaze low water crossings for drainage as required by topography.

3. LOCATIONS OF EXISTING WELLS IN A ONE MILE RADIUS. EXHIBIT "A-1"

   A. Water wells

   B. Disposal wells -None known

   C. Drilling wells - None known

   D. Producing wells - As shown on Exhibit "A-1"

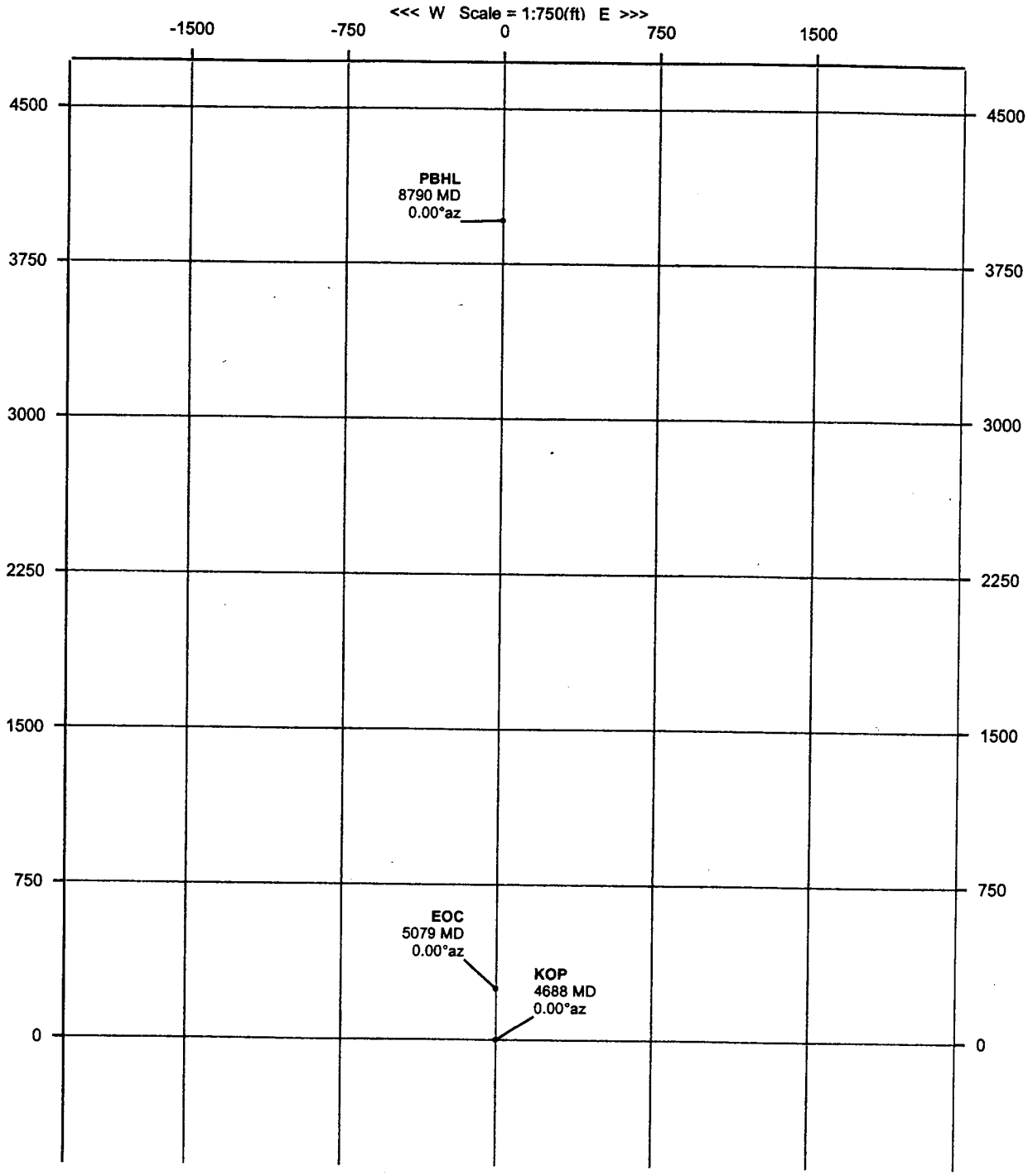
   E. Abandoned wells - As shown on Exhibit "A-1"

Endeavor Energy

WELL	FIELD	STRUCTURE
1625 Fed Com #311	Eddy County, NM Nad 83	1625 Fed Com #311

Magnetic Parameters				Surface Location				Miscellaneous			
Model: IGRF 2005	Dip: 60.427°	Date: June 06, 2005		Lat: N32 27 58.536	Northing: 633358.05 ftUS	Grid Conv: +0.01876232°		Slot: 1625 ST Com #311	TVD Ref: RKB (0.00 ft above)		
	Mag Dec: +8.838°	FS: 48319.0 nT		Lon: W104 17 54.240	Easting: 552111.26 ftUS	Scale Fact: 0.9999092236		Plan: 1625 Fed 311_r1	Srvy Date: Mon 08:53 AM June 06, 2005		

NAD83 New Mexico State Planes, Eastern Zone, US Feet



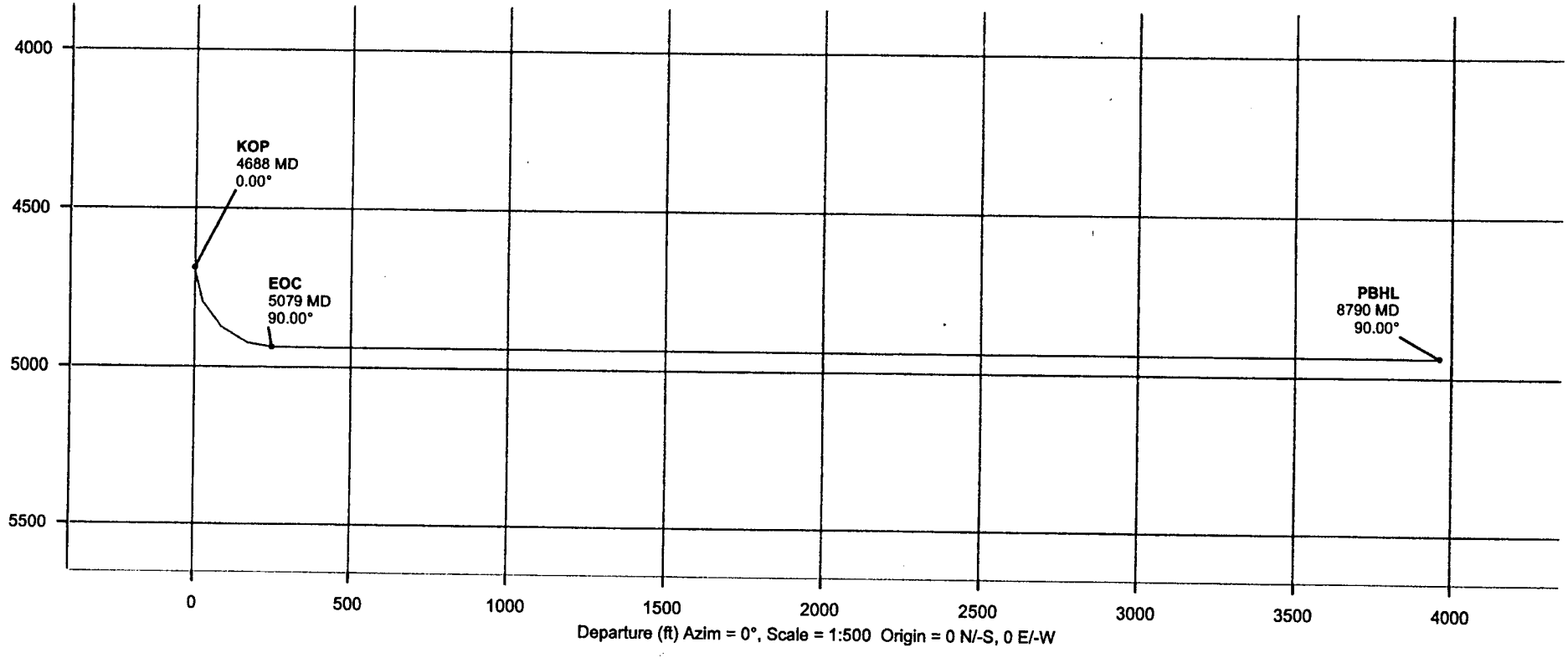
INTREPID
Directional Drilling Specialists

Endeavor Energy

WELL	FIELD	STRUCTURE
1625 Fed Com #311	Eddy County, NM Nad 83	1625 Fed Com #311

Magnetic Parameters				Surface Location				Miscellaneous			
Model: IGRF 2005	Dip: 60.427°	Date: June 05, 2005		Lat: N32 27 58.536	Northing: 533358.05 ftUS	Grid Conv: +0.01875232°		Slot: 1625 ST Com #311	TVD Ref: RKB (0.00 ft above)		
	Mag Dec: +8.638°	FS: 49319.0 nT		Lon: W104 17 54.240	Easting: 552111.26 ftUS	Scale Fact: 0.9999092236		Plan: 1625 Fed 311_r1	Srvy Date: Mon 08:53 AM June 06, 2005		

NAD83 New Mexico State Planes, Eastern Zone, US Feet

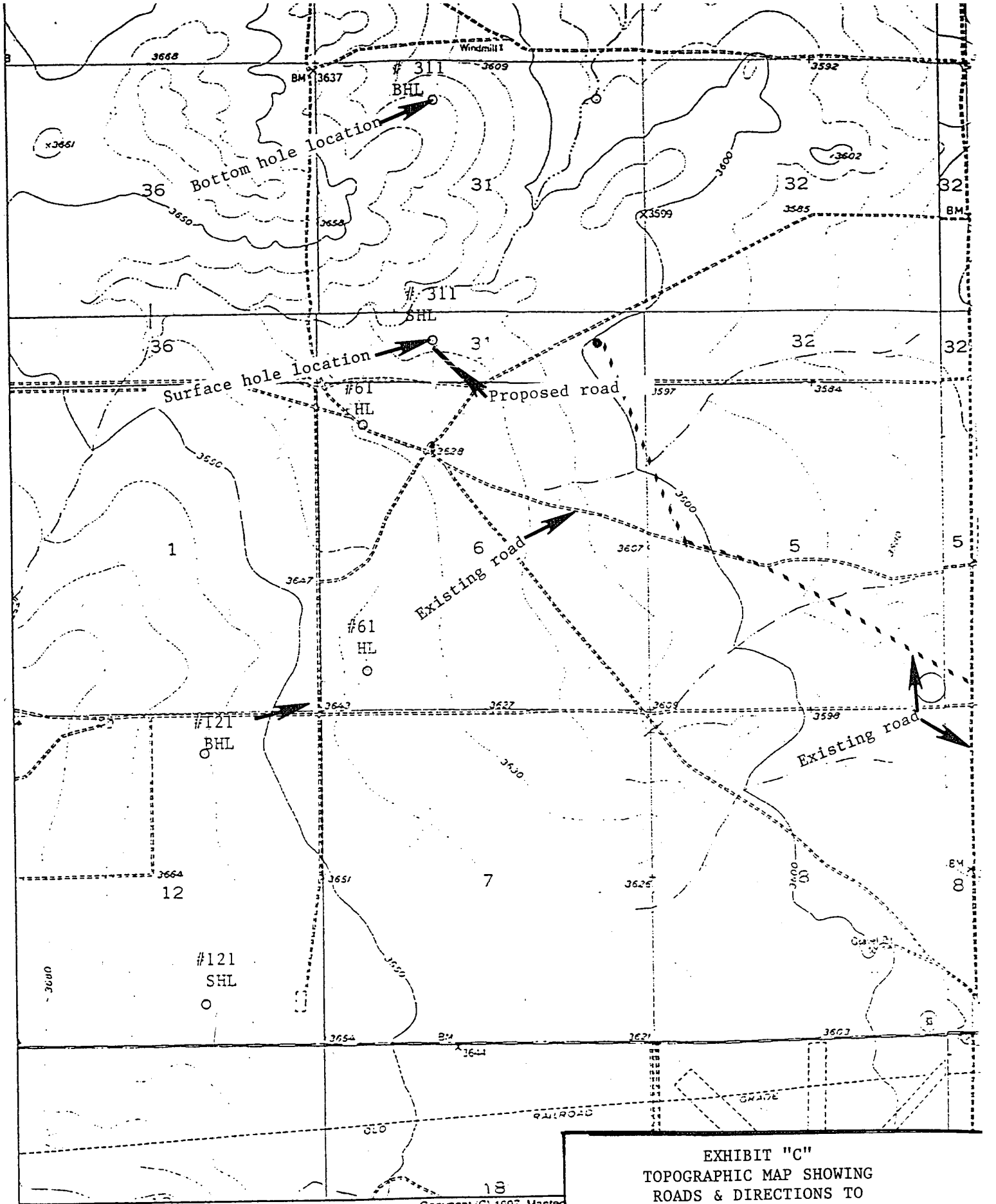


INTREPID
Directional Drilling Specialists

Proposal

Report Date:	June 6, 2005	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Endeavor Energy	Vertical Section Azimuth:	0.000°
Field:	Eddy County, NM Nad 83	Vertical Section Origin:	N 0.000 ft, E 0.000 ft
Structure / Slot:	1625 Fed Com #311 / 1625 ST Com #311	TVD Reference Datum:	RKB
Well:	1625 Fed Com #311	TVD Reference Elevation:	0.0 ft relative to
Borehole:	1625 Fed Com #311	Sea Bed / Ground Level Elevation:	0.000 ft relative to
UWI/API#:		Magnetic Declination:	8.638°
Survey Name / Date:	1625 Fed 311_r1 / June 6, 2005	Total Field Strength:	49318.957 nT
Tort / AHD / DDI / ERD ratio:	90.000° / 3960.00 ft / 5.802 / 0.802	Magnetic Dip:	60.427°
Grid Coordinate System:	NAD83 New Mexico State Planes, Eastern Zone, US Feet	Declination Date:	June 06, 2005
Location Lat/Long:	N 32 27 58.536, W 104 17 54.240	Magnetic Declination Model:	IGRF 2005
Location Grid N/E Y/X:	N 533358.051 ftUS, E 552111.259 ftUS	North Reference:	Grid North
Grid Convergence Angle:	+0.01875232°	Total Corr Mag North -> Grid North:	+8.619°
Grid Scale Factor:	0.99990922	Local Coordinates Referenced To:	Well Head

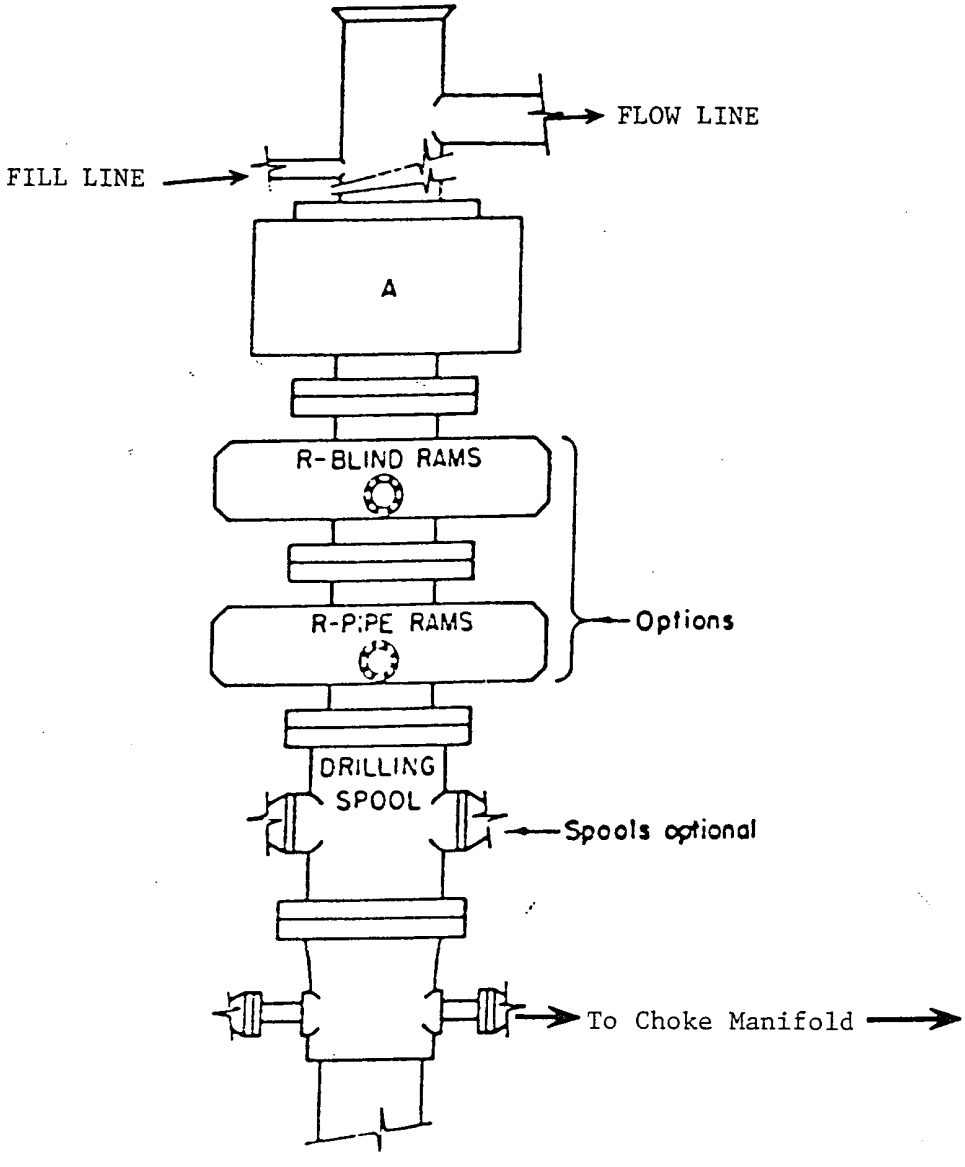
Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00M
KOP	4687.89	0.00	0.00	4687.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00M
	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



Copyright (C) 1997, Mapte

EXHIBIT "C"
TOPOGRAPHIC MAP SHOWING
ROADS & DIRECTIONS TO

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

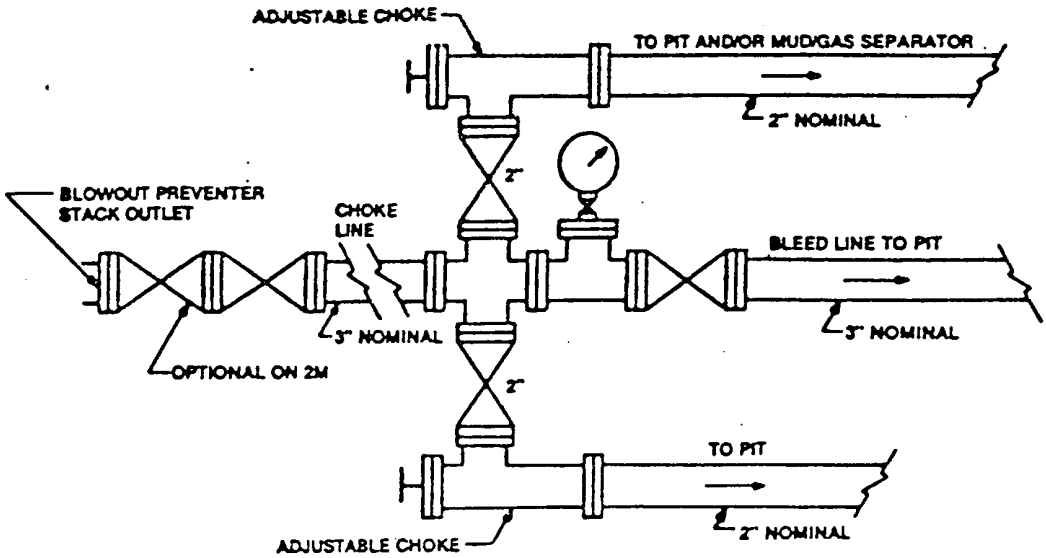


ARRANGEMENT SRRA

900 Series
3000 PSI WP

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM



Typical choke manifold assembly for 3M WP system

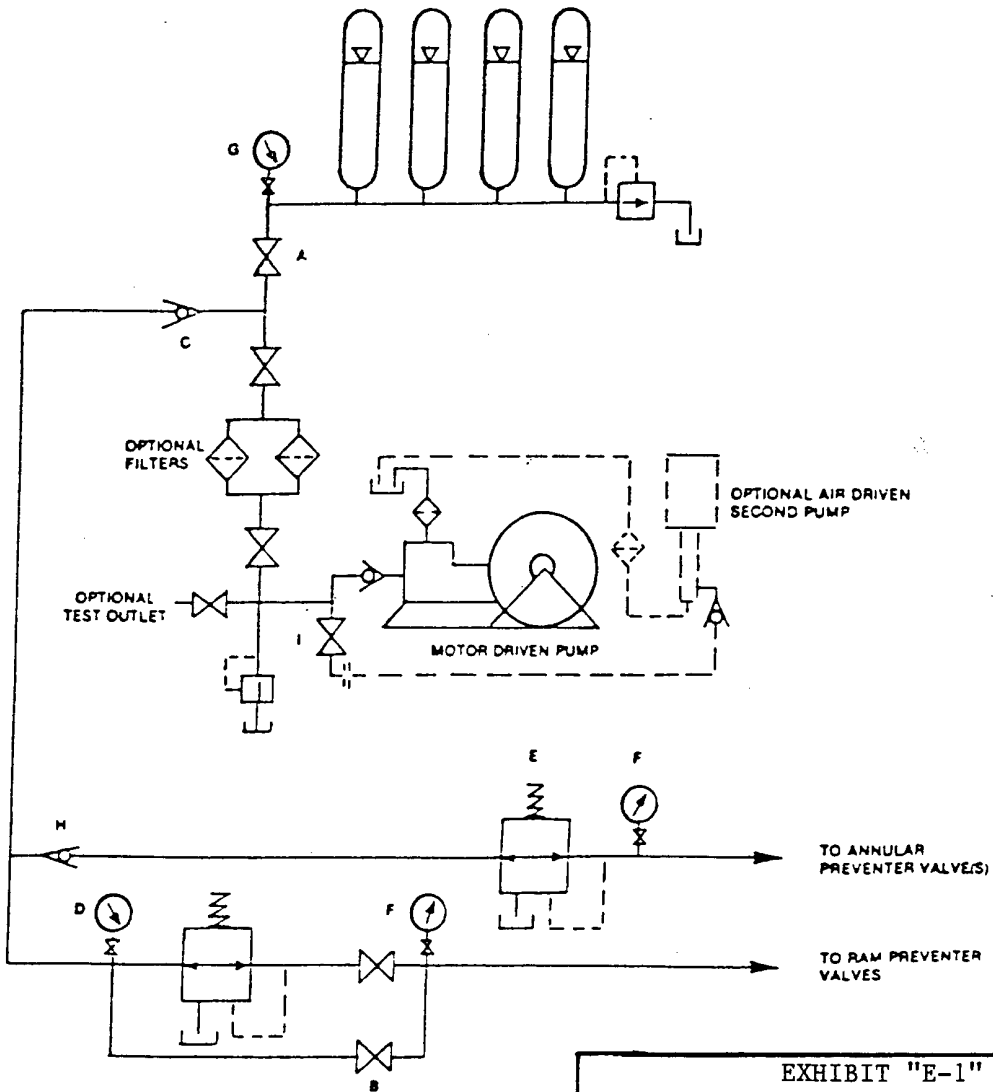


EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

LCX ENERGY, LLC.
1625 FEDERAL COM. # 311
SHL UNIT "N" SECTION 31
BHL UNIT "C" SECTION 31
T16S-R25E EDDY CO. NM

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: LCX Energy LLC
Well Name & No. 1625 Federal Com #311H
Surface Location: 660' FSL, 1880' FWL, Section 31, T. 16 S., R. 25 E., Eddy County, New Mexico
Bottom Location: 660' FNL, 1880' FWL, Section 31, T. 16 S., R. 25 E., Eddy County, New Mexico
Lease: NM-90947

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

   A. Well spud

   B. Cementing casing: **13-3/8** inch **9-5/8** inch **7** inch **4-1/2** inch liner

   C. BOP tests

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

5. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

II. CASING:

1. The **13-3/8** inch surface casing shall be set at **350 feet** and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/9** inch intermediate casing is **to be circulated to the surface**.

3. The minimum required fill of cement behind the **7** inch production casing is **to reach at least 500 feet above the top of the uppermost hydrocarbon productive interval**.

4. The minimum required fill of cement behind the **4-1/2** inch production liner is **to be circulated to the top of the liner.**

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the **13-3/8** inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

7/13/2005
acs

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be **2000** psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- Recording pit level indicator to indicate volume gains and losses.
- Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- Flow-sensor on the flow-line to warn of abnormal mud returns from the well.