

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
Revised June 10, 2003

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

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

¹ Operator Name and Address Chesapeake Operating, Inc. P. O. Box 18496 Oklahoma City, OK 73154-0496		² OGRID Number 147179
³ API Number 30 - 025-36471		
⁴ Property Code 33087	⁵ Property Name McCormick 13	⁶ Well No. 001

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
N	13	16S	35E		950	South	2052	West	Lea

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
N	13	16S	35E		810	South	1980	West	Lea

⁹ Proposed Pool 1 ShoeBar Atoka North	¹⁰ Proposed Pool 2
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¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3960'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,300'	¹⁸ Formation Morrow	¹⁹ Contractor Patterson #504	²⁰ Spud Date 01/03/04

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	48#	0-400'	± 450	Surface
11"	8-5/8	32#	0-4,400'	± 1400	Surface
7-7/8"	5-1/2"	17#	0-12,300'	± 1100	12,300'

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.

COI will drill to a T.D. of 12,300 in the Morrow Formation. The well has changed from a vertical to a directional well as shown above. Revised C-102 is attached

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Barbara J. Bale</i>		Approved by: <i>[Signature]</i>	
Printed name: Barbara J. Bale		Title: PETROLEUM ENGINEER	
Title: Regulatory Analyst		Approval Date: JAN 21 2004	
E-mail Address: bbale@chkenergy.com		Expiration Date:	
Date: 02/09/04	Phone: (405)848-8000	Conditions of Approval:	
		Attached ☐	

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1984
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36471	Pool Code	Pool Name ShoeBar Atoka North
Property Code 33087	Property Name McCORMICK 13	Well Number 1
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING, INC.	Elevation 3960'

Surface Location

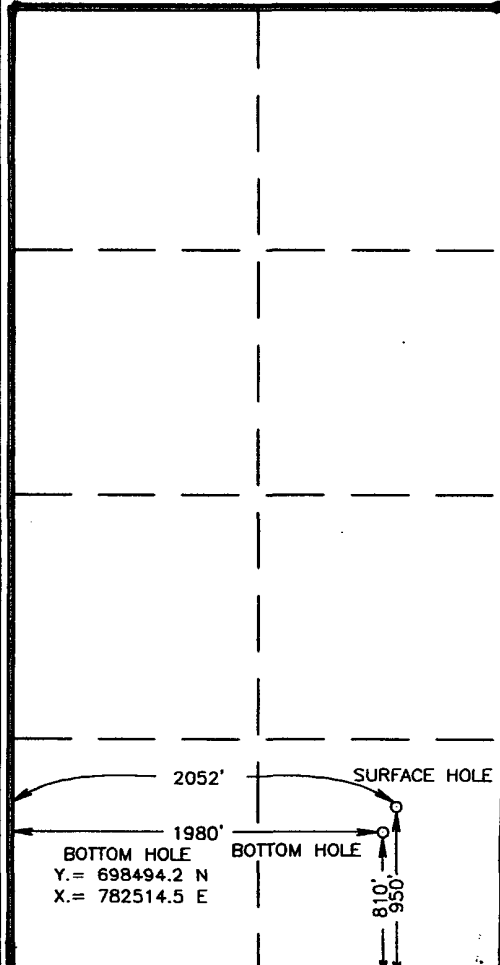
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	16-S	35-E		950'	SOUTH	2052'	WEST	LEA

Bottom Hole Location If Different From Surface

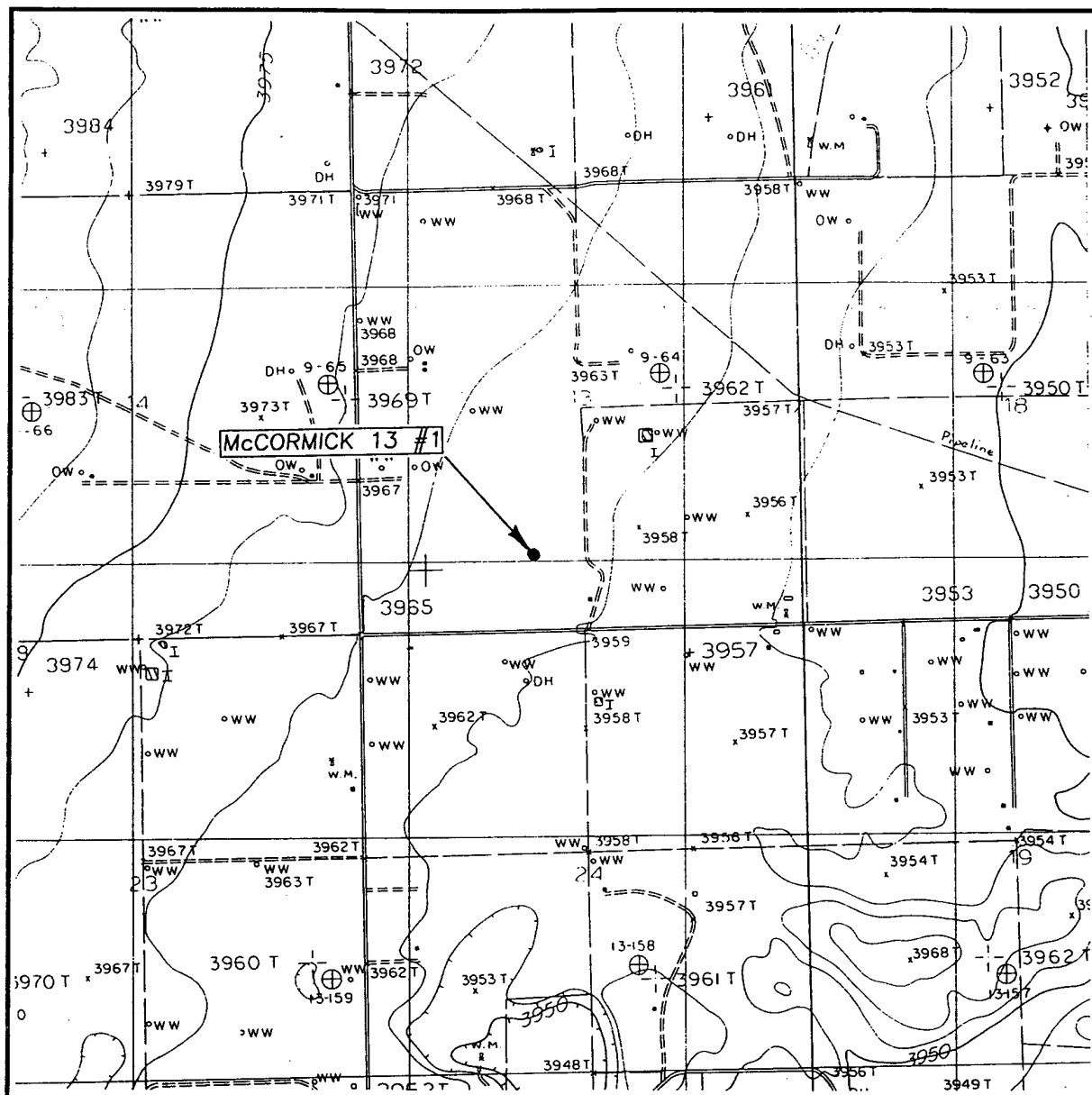
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	16-S	35-E		810'	SOUTH	1980'	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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

 2052' 1980' BOTTOM HOLE Y.= 698494.2 N X.= 782514.5 E SURFACE HOLE 810' 950' GEODETIC COORDINATE NAD 27 NME SURFACE HOLE Y.= 698635.0 N X.= 782585.0 E LAT.= 32.917232° LONG.= 103.412484°	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Lynda F. Townsend</i> Signature Lynda F. Townsend Printed Name Sr. Landman Title 1-7-04 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. October 13, 2003 Date Surveyed Signature & Seal of Professional Surveyor REV. 12/23/03 REV. 01/06/04 NEW MEXICO 03.13.1420 Certificate No. GARY EDSON 12641
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LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 5'
LOVINGTON NW, N.M.

SEC. 13 TWP. 16-S RGE. 35-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 950' FSL & 2052' FWL

ELEVATION 3960'

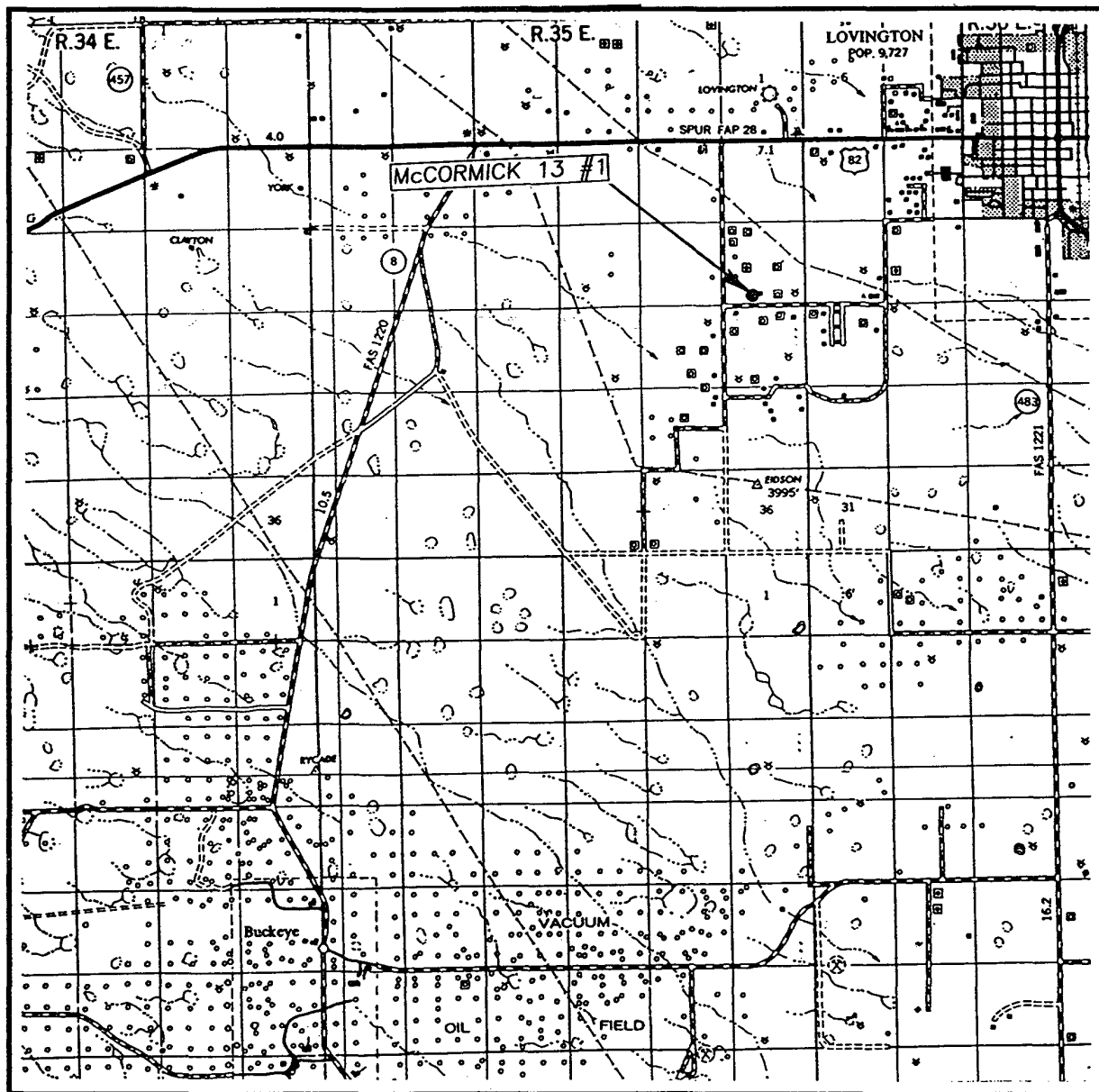
OPERATOR CHESAPEAKE OPERATING, INC.

LEASE McCORMICK 13

U.S.G.S. TOPOGRAPHIC MAP
LOVINGTON NW, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

VICINITY MAP



SEC. 13 TWP. 16-S RGE. 35-E

SCALE: 1" = 2 MILES

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 950' FSL & 2052' FWL

ELEVATION 3960'

OPERATOR CHESAPEAKE OPERATING, INC.

LEASE McCORMICK 13

DIRECTION TO LOCATION

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

FROM THE INTERSECTION OF U.S. HIGHWAY 82 AND CO. RD. # 100 (GILL RD), GO SOUTH APPROXIMATELY 2 MILES TO CO. #99 (SUMRULD RD). TURN LEFT (EAST) AND GO APPROXIMATELY 0.3 MILES TO THE McCORMICK ROAD. TURN LEFT (NORTH) AND GO APPROXIMATELY 0.2 MILES TO A CATTLE GUARD. TURN RIGHT ON NORTH SIDE OF FENCE AND GO APPROXIMATELY 0.15 MILES, THE LOCATION IS TO THE NORTH APPROXIMATELY 350'.

BLOWOUT PREVENTOR SCHEMATIC
CHESAPEAKE OPERATING INC

WELL : McCormick 1-13

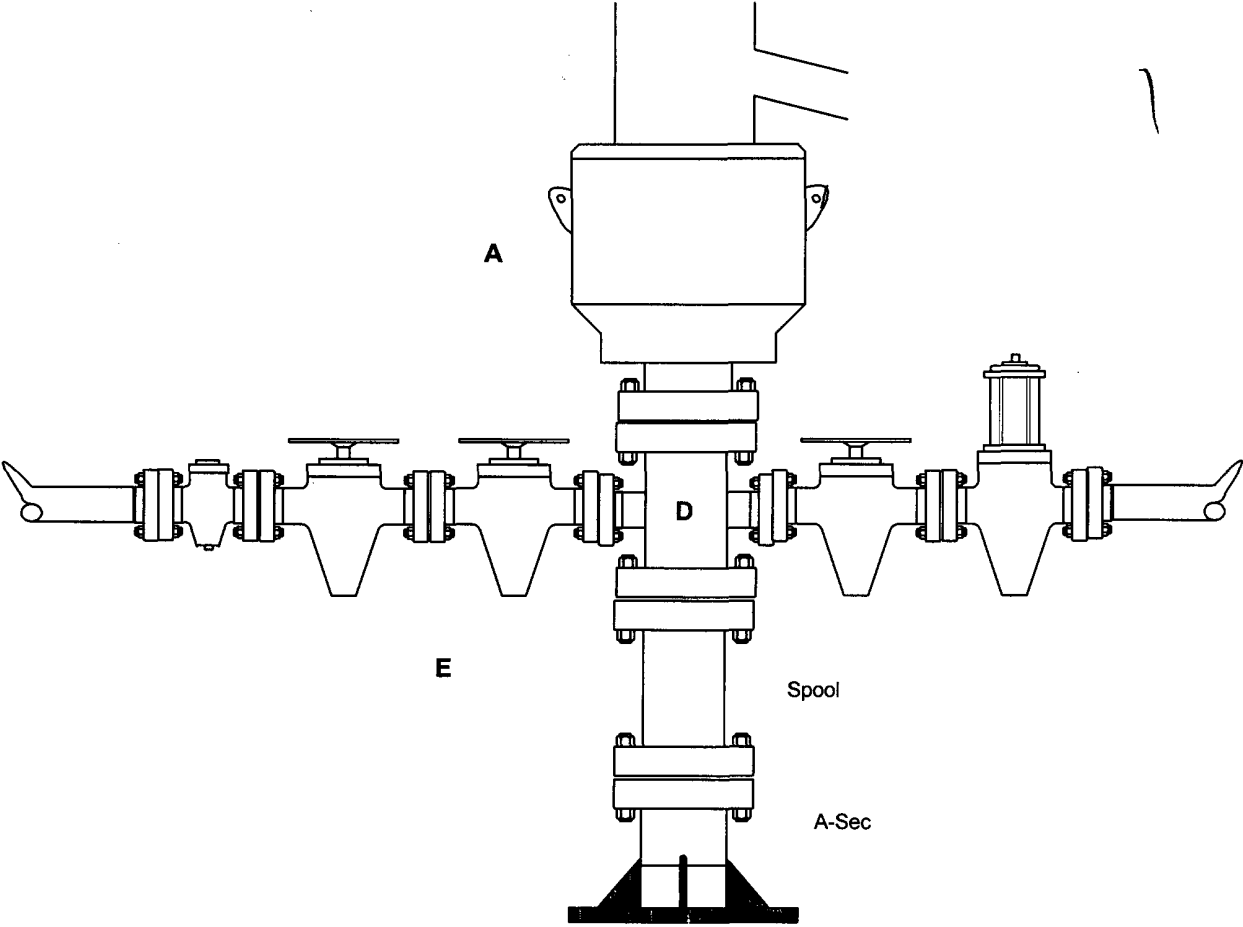
RIG : Unknown

COUNTY : Lea

STATE: New Mexico

OPERATION Drill out below 13-5/8" Casing

	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	5,000#	Annular
D	13-5/8"	5,000#	Mud Cross
Spool		13-5/8" 3M x 13-5/8" 5M	
A-Sec		13-5/8" SOW x 13-5/8" 3M	



Kill Line

Choke Line

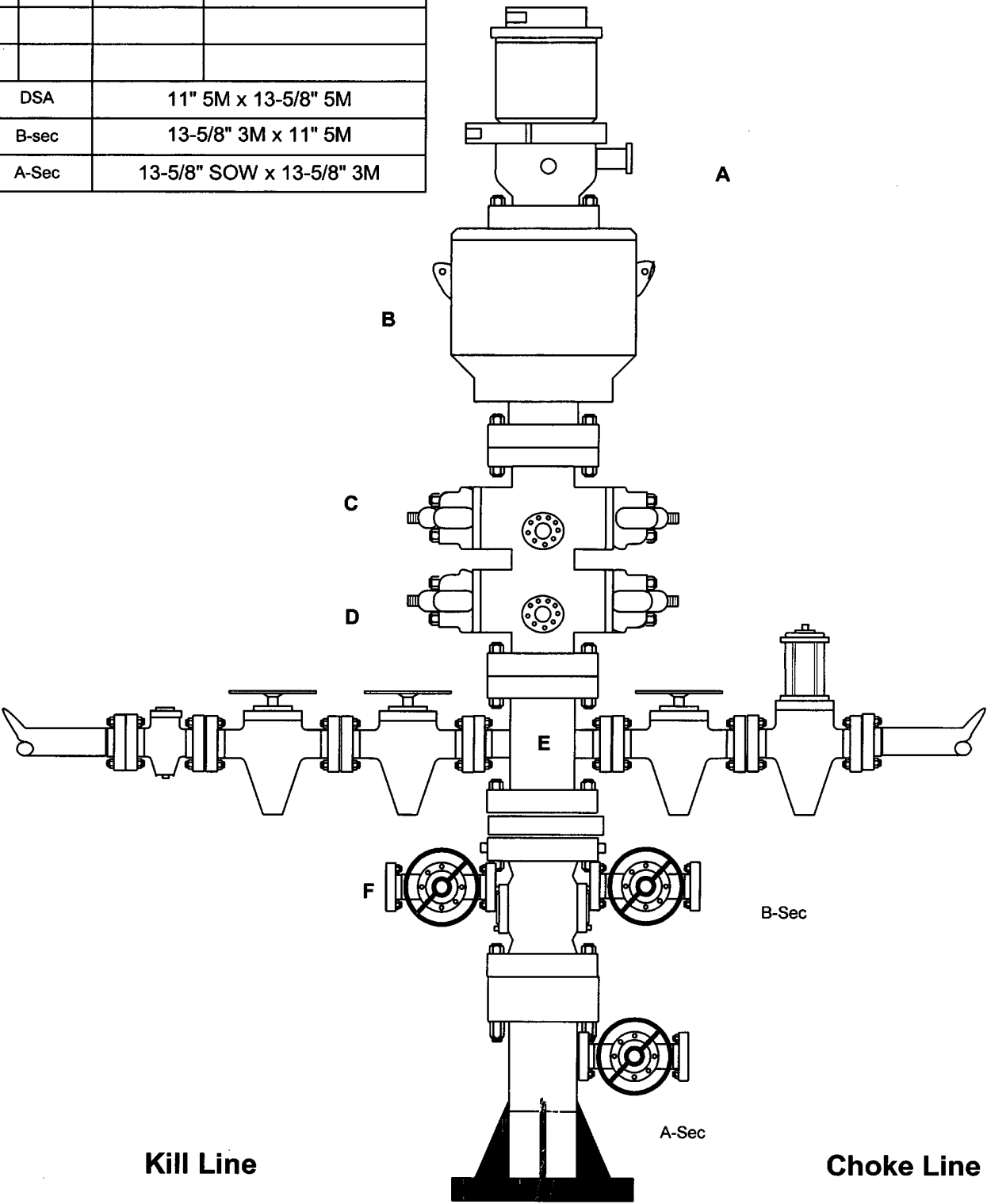
SIZE	PRESSURE	DESCRIPTION
2"	10,000#	Check Valve
2"	10,000#	Gate Valve
2"	10,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	10,000#	Gate Valve
4"	10,000#	HCR Valve

BLOWOUT PREVENTOR SCHEMATIC
CHESAPEAKE OPERATING INC

WELL : McCormick 1-13
RIG : Unknown
COUNTY : Lea STATE: New Mexico
OPERATION: Drill out below 8-5/8" Casing

	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	500#	Rot Head
B	13-5/8"	5,000#	Annular
C	13-5/8"	5,000#	Pipe Rams
D	13-5/8"	5,000#	Blind Rams
E	13-5/8"	5,000#	Mud Cross
DSA	11" 5M x 13-5/8" 5M		
B-sec	13-5/8" 3M x 11" 5M		
A-Sec	13-5/8" SOW x 13-5/8" 3M		



SIZE	PRESSURE	DESCRIPTION
2"	10,000#	Check Valve
2"	10,000#	Gate Valve
2"	10,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	10,000#	Gate Valve
4"	10,000#	HCR Valve