

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

New Mexico Oil Conservation Division, District I
SUBMIT IN TRIPLICATE (See other instructions on reverse side)

Form approved.

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐

b. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☒ Other ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

CHESAPEAKE OPERATING, INC. Attn. Linda Good

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496 405-767-4275

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1090 FNL 330 FEL, NENE

At top proposed prod. zone

Unit A

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10 MILES SOUTHWEST OF MONUMENT, NM

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

40

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

10,400

20. ROTARY OR CABLE TOOLS*

ROTARY

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

3650'

22. APPROX. DATE WORK WILL START*

Lea County Controlled Water Basin

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
"	"	#	'	+/-
"	"	#	'	+/-
"	"	#	'	+/-

Chesapeake Operating, Inc. proposes to drill a well to 10,000' to test the Seven Rivers and Bone Spring formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and New Mexico Oil Conservation Division requirements.

NSL-5228

Attached please find the Surface Use Plan, Drilling Plan, and attachments as required by Onshore Order No. 1. A general rig plat is attached as Exhibit D. A final rig plat will be submitted prior to spud once a rig is assigned.

Please be advised that Chesapeake Operating, Inc. is considered to be the Operator of the above mentioned well. Chesapeake Operating, Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Chesapeake Operating, Inc. under their Nationwide Bond No. NM2634.

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED**

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 prevention program, if any.

24.

SIGNED

Henry Hood

TITLE Sr. Vice President Land and Legal DATE 3/14/05

*(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/ Joe G. Lara

TITLE ACTING FIELD MANAGER

DATE APR 26 2005

See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

1. EXISTING ROADS

- a. Existing county roads will be used to enter proposed access road.
- b. Location, access, and vicinity plats attached hereto. See Exhibits A-1 through A-4.

2. PLANNED ACCESS ROADS

- a. A new access road 221.16' in length and 14' in travel way width with a maximum disturbance area of 30' will be built in accordance with guidelines set forth in the BLM Onshore Orders.
- b. No turnouts are expected.
- c. In order to level the location, cut and fill will be required. Please see attached Well Location and Acreage Dedication Plat – Exhibit A1-A4.
- d. A locking gate will be installed at the site entrance.
- e. Any fences cut will be repaired. Cattle guards will be installed, if needed.
- f. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- g. Driving directions are from Eunice West on Hwy 176 to Pearson Ranch Rd, North and West approximately 8 miles, then North 2.5 miles, East 1 mile and North into location.

3. LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION – see Exhibit B.

4. LOCATION OF PRODUCTION FACILITIES

It is anticipated that production facilities will be located off site, but on Lease NMNM16835 as product will be sold at the Neuhaus Central Tank battery located 660 FNL 1650 FEL of Sec 14-20S-35E, NWNE. A Sundry will be submitted for the pipeline to the Central Tank Battery. – See Exhibit C.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be obtained from a private water source. Chesapeake Operating, Inc. will ensure all proper notifications and filings are made with the state.

6. CONSTRUCTION MATERIALS

No construction materials will be used from Section 4-20S-33E. All material (i.e. shale) will be acquired from private or commercial sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

An in ground reserve pit will be used to handle all drilling fluids, this pit design is based on the current (OCD guidelines for reserve pits). This will consist of two parallel pits approximately 150' in length X 15" in width X 12' deep. The pits will be lined with 12 mil woven plastic liner. The closing procedure will follow Guidelines set forth on page 14 Item B #3 in "The Pit and Below Grade Tank Guidelines" dated Nov. 1, 2004. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

8. ANCILLARY FACILITIES

None

9. WELLSITE LAYOUT

The proposed site layout plat is attached showing a generic rig plat with rig orientation and equipment location. See Exhibit D.

10. PLANS FOR RECLAMATION OF THE SURFACE

The location will be restored to as near as original condition as possible. Reclamation of the surface shall be done in strict compliance with the existing New Mexico Oil Conservation Division regulations.

Backfilling leveling, and contouring are planned as soon as the drilling rig and steel tanks are removed. Wastes and spoils materials will be buried immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible. The rehabilitation will begin after the drilling rig is removed.

ONSHORE ORDER NO. 1
Chesapeake Operating, Inc.
Neuhaus 14 Federal 5
990 FNL 330 FEL, NE NE
of Section 14-20S-35E
Lea County, NM

CONFIDENTIAL – TIGHT HOLE

Lease No. NMNM 16835

SURFACE USE PLAN
Page 3

11. SURFACE OWNERSHIP

G. P. Sims
Box 1046
Eunice, NM 88231
505-390-2642

Mineral Ownership
United States of America
Department of Interior
Bureau of Land Management

12. ADDITIONAL INFORMATION

A Class III cultural resource inventory report was prepared by Boone Archaeological Services, Carlsbad, New Mexico for the proposed location. A copy of the report has been sent to the BLM office under separate cover and is also attached for reference. See Exhibit E.

13. OPERATOR'S REPRESENTATIVES

Drilling and Completion Operations

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District Manager
P.O. Box 18496
Oklahoma City, OK 73154
(405) 810-2694 (OFFICE)
(405) 879-9573 (FAX)
rjones@chkenergy.com

Drilling Engineer

David DeLaO
P.O. Box 18496
Oklahoma City, OK 73154
(405) 767-4339 (OFFICE)
(405) 879-9573 (FAX)
(405) 990-8182 (MOBILE)

Field Representative

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Midland, TX 79701
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432-685-4399 (FAX)
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Asset Manager

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P.O. Box 18496
Oklahoma City, OK 73154-0496
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405-879-7930 (FAX)
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Regulatory Compliance

Linda Good
Regulatory Compliance Analyst
P.O. Box 11050
Oklahoma City, OK 73154
(405) 767-4275 (OFFICE)
(405) 879-9583 (FAX)
lgood@chkenergy.com

ONSHORE ORDER NO. 1
Chesapeake Operating, Inc.
Neuhaus 14 Federal 5
990 FNL 330 FEL, NE NE
of Section 14-20S-35E
Lea County, NM

CONFIDENTIAL – TIGHT HOLE

Lease No. NMNM 16835

SURFACE USE PLAN
Page 4

14. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this surface use plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed will be performed by operator (including contractors and subcontractors) submitting the APD, in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

By: _____

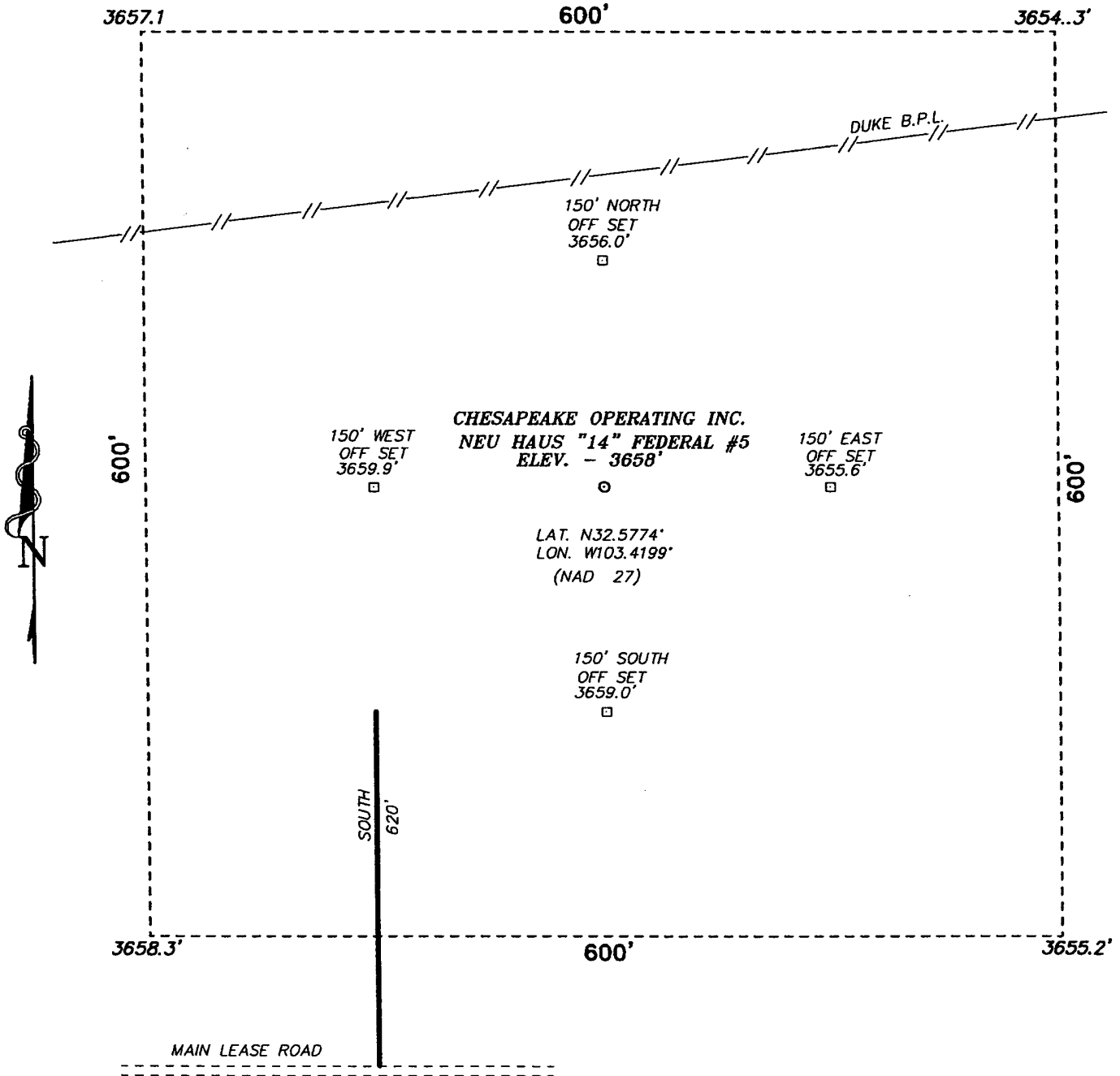
Henry Hood
Sr. Vice President
Land and Legal

Date: _____

3/14/05

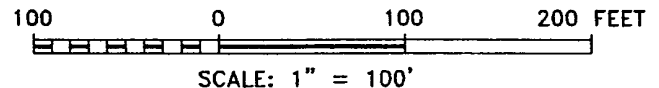
Exhibit A-1

SECTION 14, TOWNSHIP 20 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF US HWY. 62 & 180 AND CO. RD. H-37 (WILLOW) AT MM 85, GO SOUTHEAST ON H-37, 1.3 MILES TO LEASE ROAD RIGHT FOLLOW MAIN LEASE RD. 0.3 MI. W. THEN 0.3 MI. SOUTH, THEN 0.1 MI. EAST, THEN 1.0 MI. SOUTH, THEN 0.5 MI. SOUTH, AND SOUTHEAST 0.2 MI. THEN SOUTH 2.0 MILES, THEN 2.9 MI. SOUTH TO A LEASE ROAD RT. GO WEST ON LEASE ROAD 0.4 MILES TO PROPOSED LEASE ROAD.



CHESAPEAKE OPERATING INC.

REF: NEU HAUS "14" FEDERAL #5 / Well Pad Topo

NEU HAUS "14" FEDERAL #5 LOCATED 1090' FROM THE NORTH LINE AND 330' FROM THE EAST LINE OF SECTION 14, TOWNSHIP 20 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

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

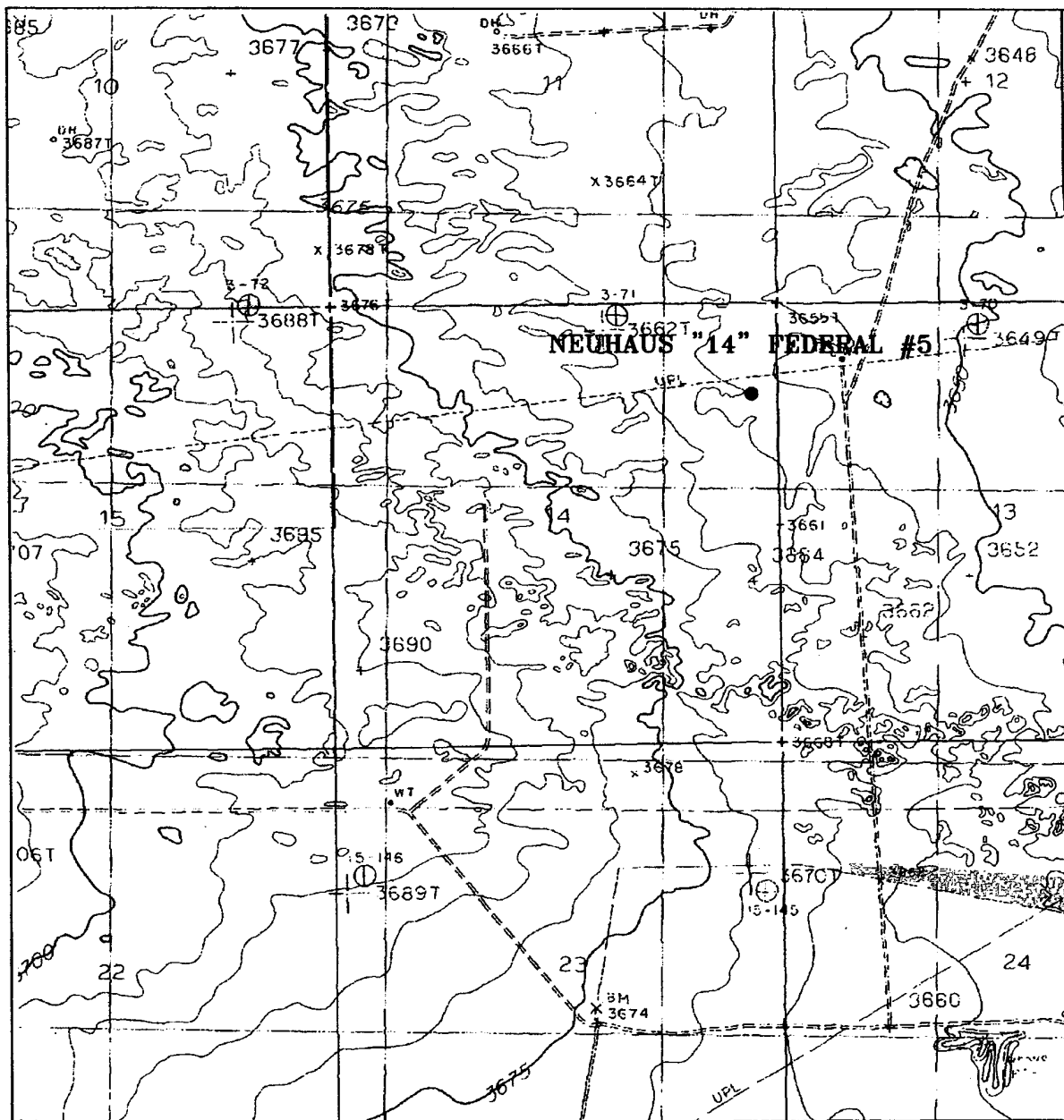
W.O. Number: 4947 Drawn By: JAMES PRESLEY

Date: 12/28/04 Disk: JLP #1 - 4947A

Survey Date: 12/27/04

Sheet 1 of 1 Sheets

Exhibit A-3



NEU HAUS "14" FEDERAL #5

Located at 1090' FNL and 330' FEL

Section 14, Township 20 South, Range 35 East,
N.M.P.M., Lea 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: 4947AA - JLP #1

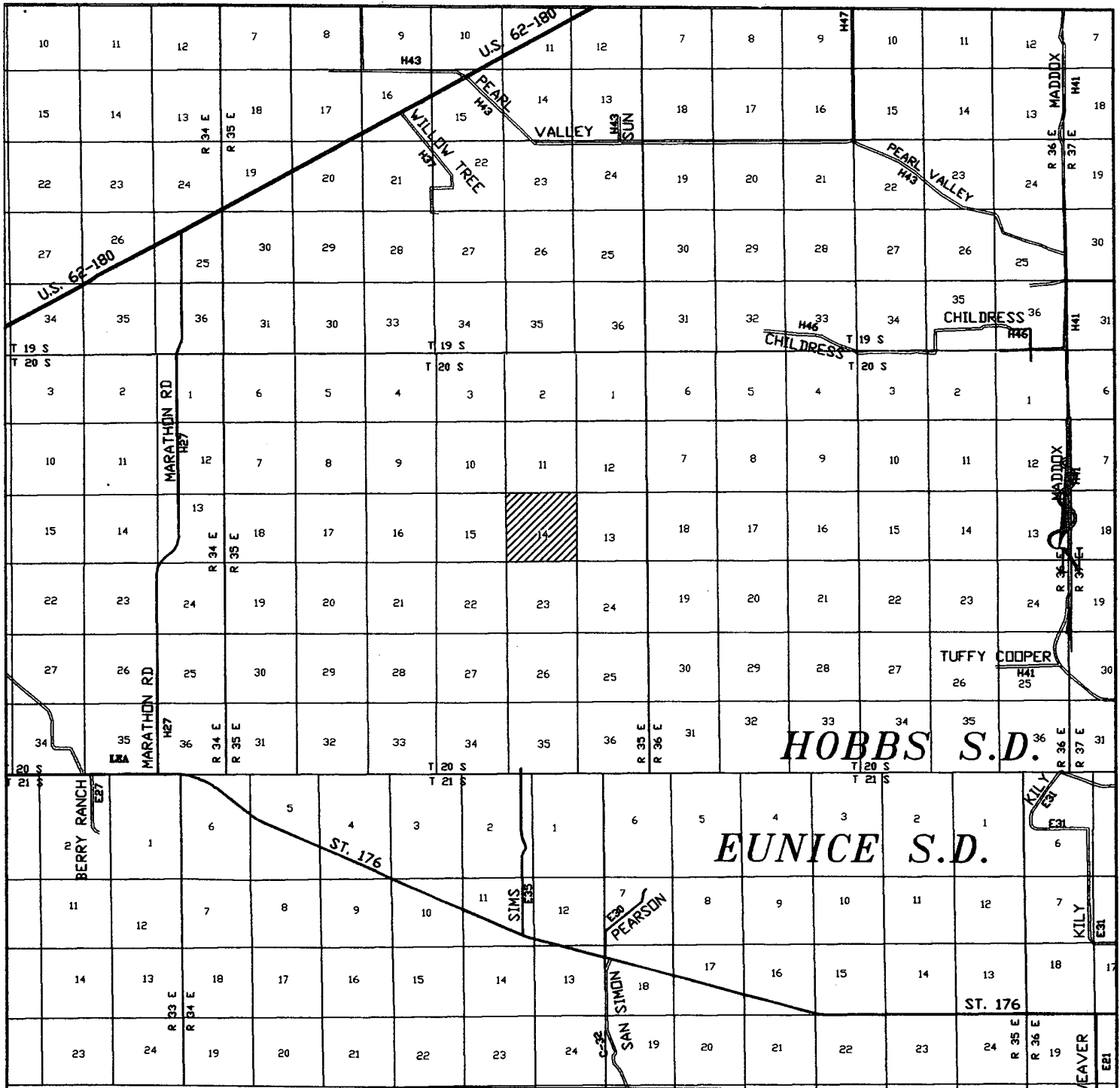
Survey Date: 12/27/04

Scale: 1" = 2000'

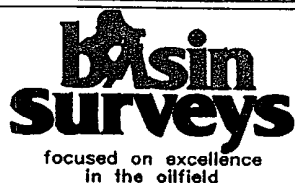
Date: 12/28/04

**CHESAPEAKE
OPERATING
INC.**

Exhibit 2-3



NEU HAUS "14" FEDERAL #5
 Located at 1090' FNL and 330' FEL
 Section 14, Township 20 South, Range 35 East,
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

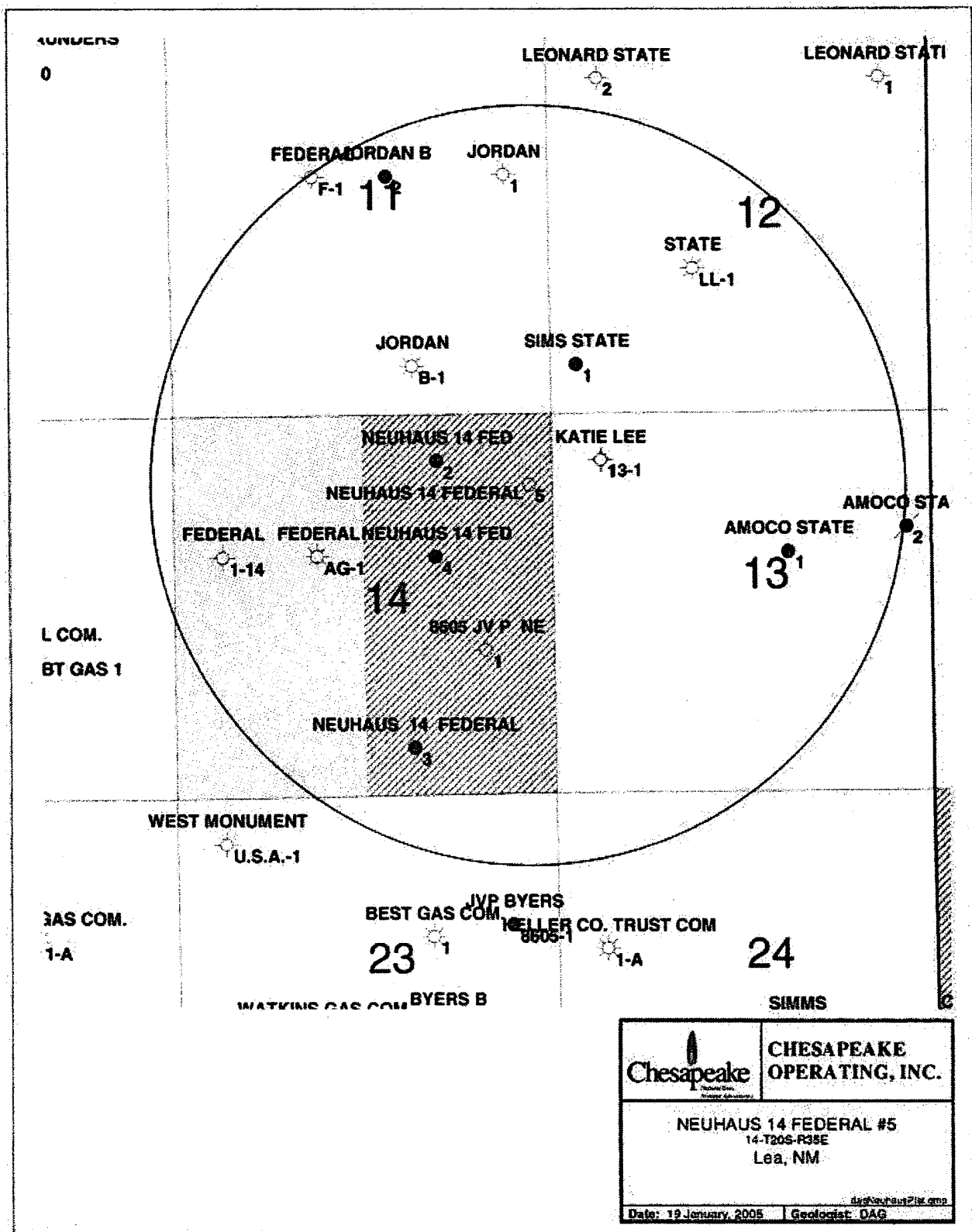
W.O. Number: 4947AA - JLP #1

Survey Date: 12/27/04

Scale: 1" = 2000'

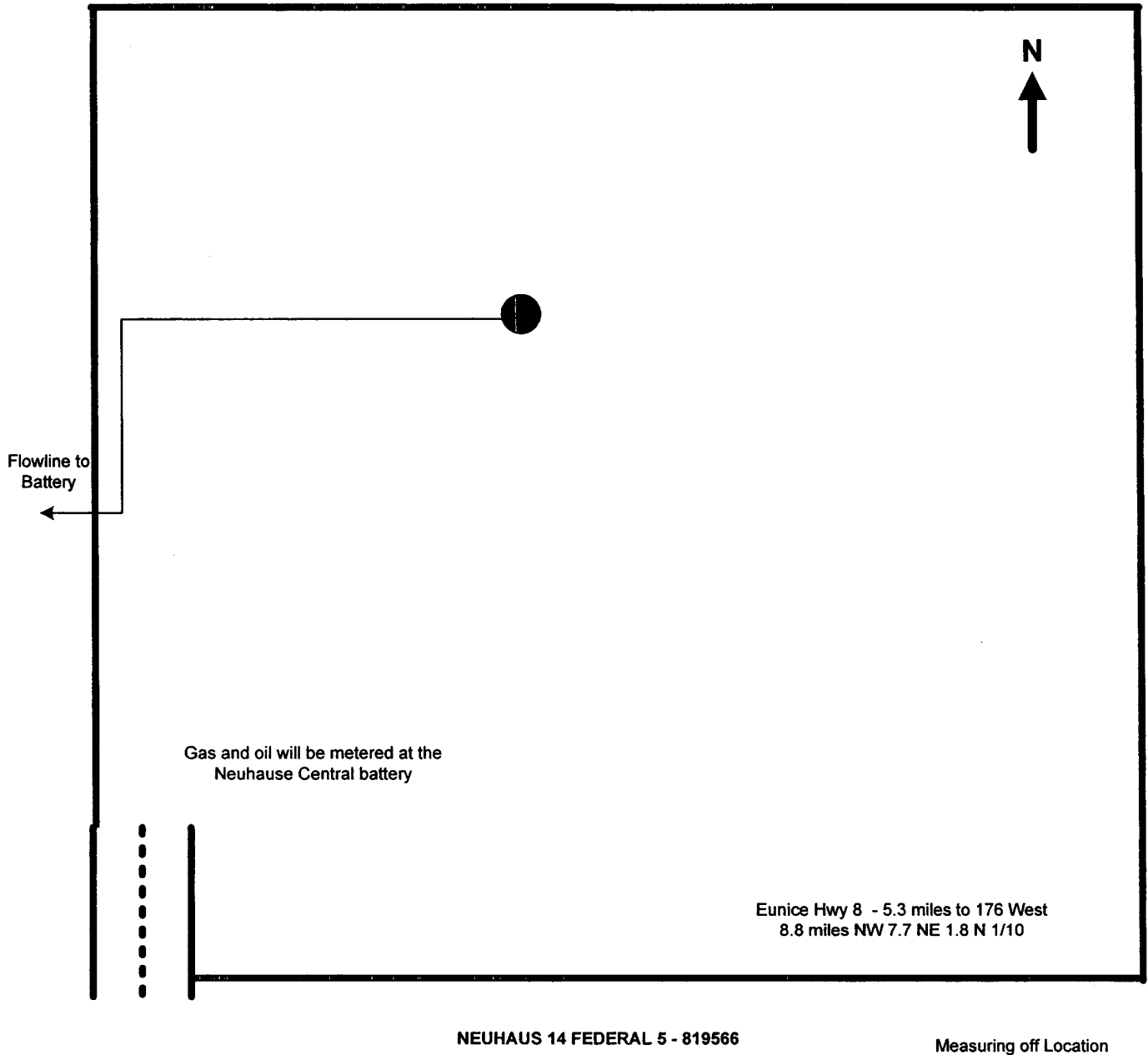
Date: 12/28/04

CHESAPEAKE
 OPERATING
 INC.



CHEAPEAKE OPERATING, INC.

NEUHAUS 14 FEDERAL 5
10-24S-31E
EDDY COUNTY, NM



NEUHAUS 14 FEDERAL 5 - 819566

Measuring off Location

Prepared by: DEBBIE HERNANDEZ
Date: 01-27-2005

Approved by:
Date:

Exhibit C

Prevailing Winds from the North in Winter and from the South in Summer.

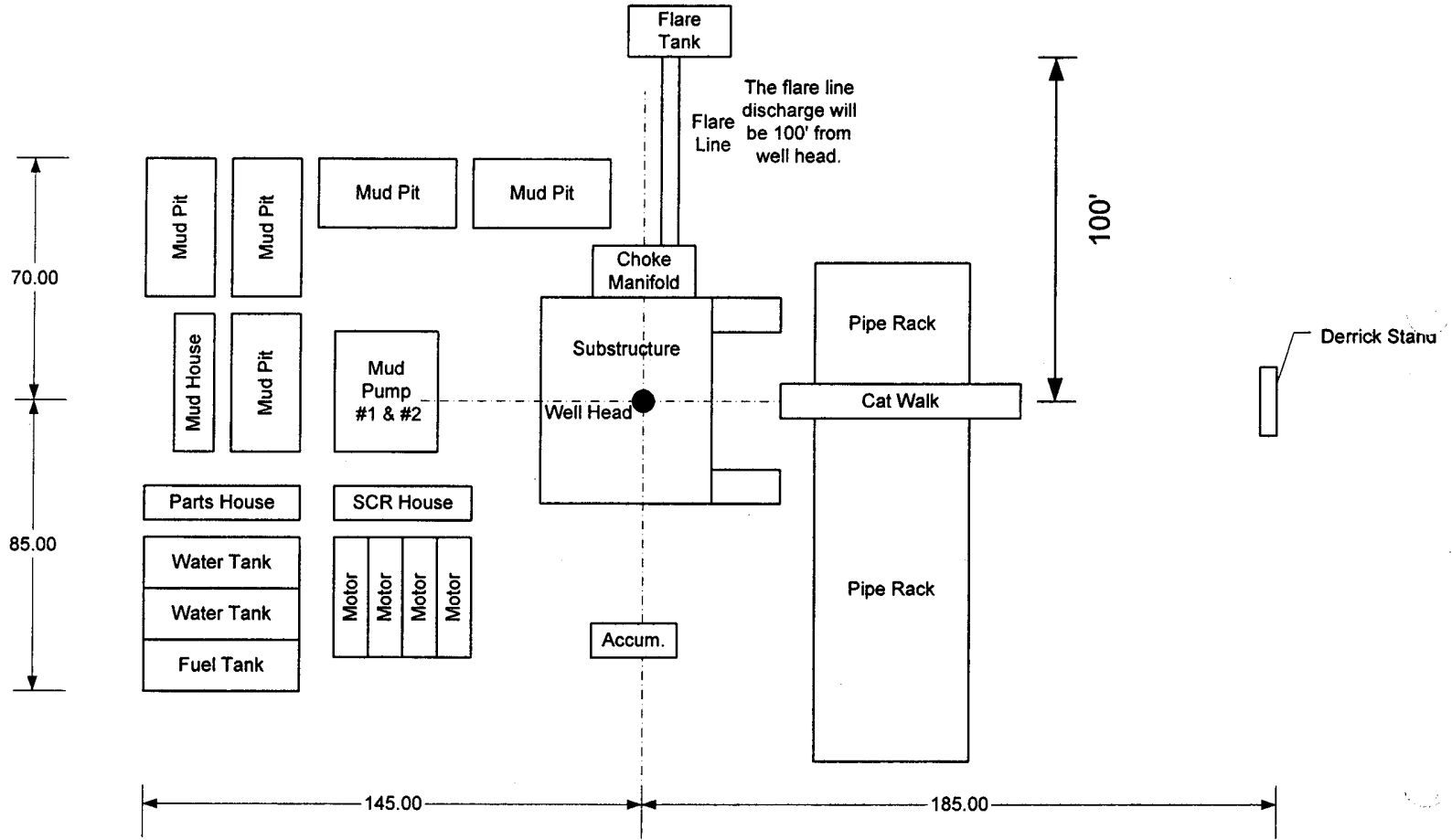


Exhibit D

Chesapeake Operating, Inc			
General Rig Layout			
SIZE	FSCM NO	DWG NO	REV
SCALE	Not to Scale	SHEET	1 OF 1

b. **Description of Undertaking:** Chesapeake Operating Inc. plans to construct the Neu Haus "14" Federal No. 5 well pad and associated access road. Linda Good, with Chesapeake Operating, requested the survey and provided plats. The project can be found in Township 20 South, Range 35 East, Section 14. The proposed well is centered 1,090 feet from the north line and 330 feet from the east line of Section 14. The well will impact an area 400 ft by 400 ft, yet a 600 ft by 600 ft block was surveyed around the well center to ensure protection of cultural resources. The proposed access road begins at an existing caliche-capped lease road and travels 620 ft north to the southwest corner of the proposed well location. A 100 ft wide corridor was surveyed along the access road centerline. Approximately 150 ft of the proposed access road is overlapped by the block survey and is not included in the total survey acreage. In all, 9.34 acres was surveyed on private property with federal mineral rights under the jurisdiction of the Bureau of Land Management - Carlsbad Field Office (BLM-CFO).

c. **Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):** The project area is located on a flat plain roughly 19 miles southwest of Hobbs, New Mexico. The elevation averages 3,660 feet above mean sea level. The terrain slopes gradually downhill towards the east at a grade of less than one percent. Local soils are of the Pyote-Majamar-Kermit association as defined by the Soil Conservation Service of the U.S. Department of Agriculture. The light brown sandy soils have been wind-worked into occasional parabolic dunes to 1.5 m high. Local vegetation is typical of Chihuahuan Desert scrub and consists of various grasses, shin oak, yucca, low forbes, and various cacti. Due to the vegetative ground cover, surface visibility averaged 80 percent at the time of survey. A buried pipeline and associated two-track road run east/ west along the northern portion the project area and several other wells are visible in the surrounding area. The project area is otherwise undisturbed aside from grazing cattle.

Climatic data was obtained for the nearby town of Hobbs, New Mexico from the Western Regional Climate Center (WRCC) online database. From 1919 to 2004, Hobbs received an average annual precipitation of 15.96 inches. During the same time, Hobbs had an average high temperature of 76.3 degrees Fahrenheit and an average low temperature of 47.4 degrees Fahrenheit. January was the coldest month averaging 56.5 degrees Fahrenheit, while July was the warmest on average at 93.8 degrees Fahrenheit.

d. **Field Methods (transect intervals; crew size; time in field; etc.):** A crew of one spent 3 hours surveying the project area. A 15 m transect interval was used.

e. **Artifacts Collected?:** None

17. **Cultural Resource Findings:** No cultural materials were encountered.

a. **Location/Identification of Each Resource:** N/A

b. **Evaluation of Significance of Each Resource:** N/A

18. **Management Summary (Recommendations):** No cultural materials were encountered during the survey. As such, archaeological clearance is recommended for the proposed Neu Haus "14" Fed No. 5 well and associated access road. If any cultural materials are encountered during construction, work at that location should cease and archaeologists with the BLM-CFO should be notified immediately.

19.

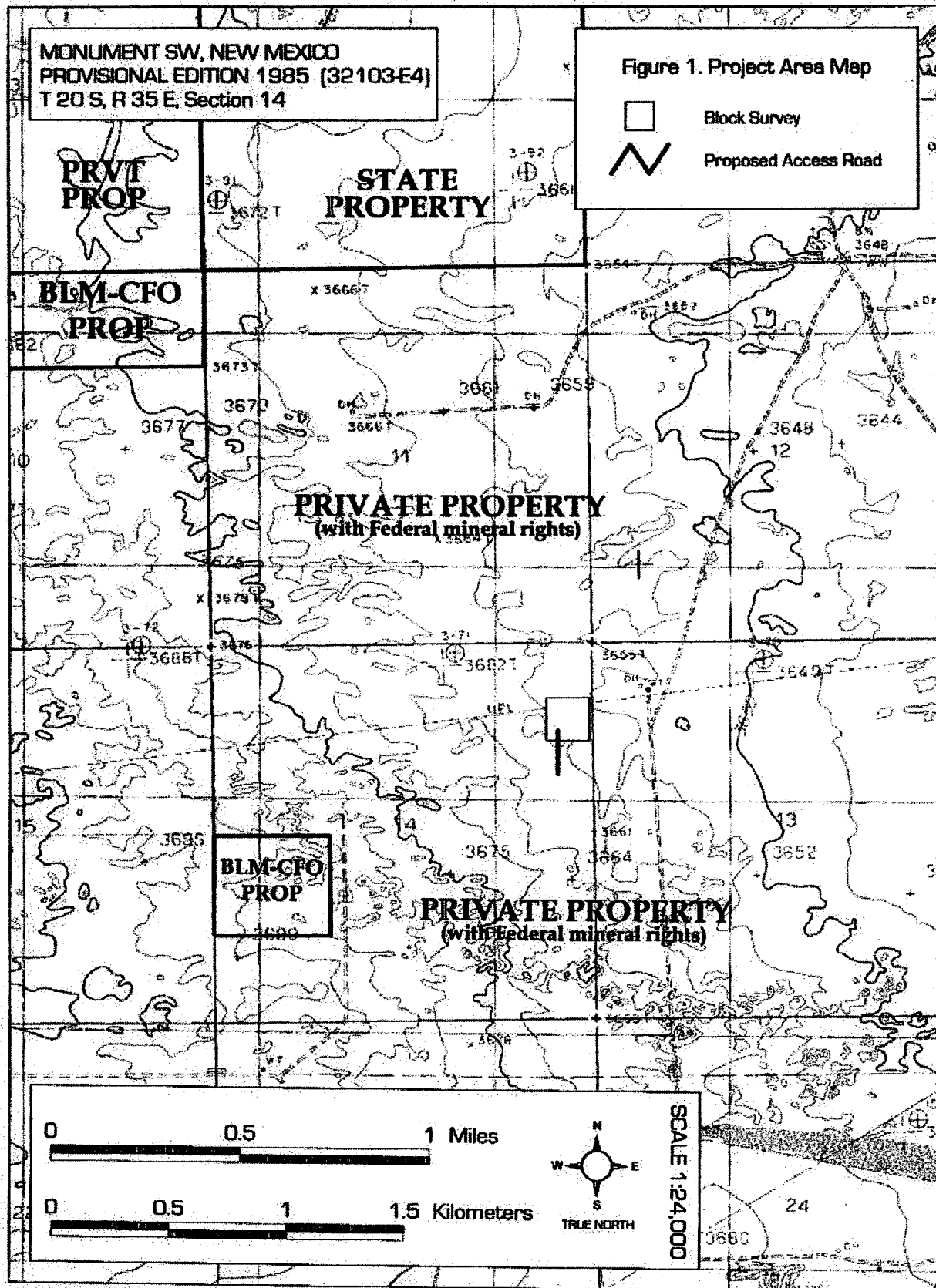
I certify the information provided above is correct and accurate and meets all applicable BLM standards.

Responsible Archaeologist


Signature

1.19.05
Date

Survey for the Neu Haus "14" Federal No. 5 Well Pad and Access Road



BAS-01-05-09

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (CFR 43, Part 3160) and the approved Application for Permit to Drill. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling and completion operations.

Approval of this application 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.

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

Formation	Depth	Subsea
Rustler	2035	1635
Yates	3805	-135
*Seven Rivers Sand	4230	-560
Queen	4725	-1055
Grayburg	5070	-1400
Delaware	5605	-1935
Bone Spring	7990	-4320
1st Bone Spring Sand	9265	--5595
2nd Bone Spring Carbonate	9540	-5870
2nd Bone Spring Sand	9940	-6270
*Bone Spring "Neuhaus Zone"	10,080	-6410
TD	10400	
*Potentially Productive Zone		

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Seven Rivers Sand	4230'
Oil/Gas	Bone Spring	10,080'

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT: 3,000# System

Chesapeake Operating, Inc.'s minimum specifications for pressure control equipment are as follows:

I. BOP, Annular, Choke Manifold, Pressure Test - See Exhibit F-1 and F-2.

A. Equipment

1. The equipment to be tested includes all of the following that is installed on the well:
 - (a) Ram-type and annular preventers,
 - (b) Choke manifolds and valves,
 - (c) Kill lines and valves, and
 - (d) Upper and lower kelly cock valves, inside BOP's and safety valves.

B. Test Frequency

1. All tests should be performed with clear water,
 - (a) when installed,
 - (b) before drilling out each casing string,
 - (c) at any time that there is a repair requiring a pressure seal to be broken in the assembly, and
 - (d) at least once every 30 days while drilling.

C. Test Pressure

1. In some drilling operations, the pressures to be used for low and high-pressure testing of preventers and casing may be different from those given below due to governmental regulations, or approved local practices.
2. If an individual component does not test at the low pressure, **do not**, test to the high pressure and then drop back down to the low pressure.
3. All valves located downstream of a valve being tested must be placed in the open position.
4. All equipment will be tested with an initial "low pressure" test at 250 psi.
5. The subsequent "high pressure" test will be conducted at the rated working pressure of the equipment for all equipment except the annular preventer.
6. The "high pressure" test for the annular preventer will be conducted at 70% of the rated working pressure.
7. A record of all pressures will be made on a pressure-recording chart.

D. Test Duration

1. In each case, the individual components should be monitored for leaks for 5 minutes, with no observable pressure decline, once the test pressure has been applied.

II. Accumulator Performance Test

A. Scope

1. The purpose of this test is to check the capabilities of the BOP control systems, and to detect deficiencies in the hydraulic oil volume and recharge time.

B. Test Frequency

1. The accumulator is to be tested each time the BOP's are tested, or any time a major repair is performed.

C. Minimum Requirements

1. The accumulator should be of sufficient volume to supply 1.5 times the volume to close and hold all BOP equipment in sequence, without recharging and the pump turned off, and have remaining pressures of 200 PSI above the precharge pressure.

2. Minimum precharge pressures for the various accumulator systems per manufacturers recommended specifications are as follows:

3.

System Operating Pressures

Precharge Pressure

1500 PSI
2000 PSI
3000 PSI

750 PSI
1,000 PSI
1,000 PSI

3. Closing times for the Hydril should be less than 20 seconds, and for the ram-type preventers less than 10 seconds.

4. System Recharge time should not exceed 10 minutes.

D. Test Procedure

1. Shut accumulator pumps off and record accumulator pressure.
2. In sequence, close the annular and one set of properly sized pipe rams, and open the HCR valve.
3. Record time to close or open each element and the remaining accumulator pressure after each operation.

4. Record the remaining accumulator pressure at the end of the test sequence. Per the previous requirement, this pressure should not be less than the following pressures:

<u>System Pressure</u>	<u>Remaining Pressure At Conclusion of Test</u>
1,500 PSI	950 PSI
2,000 PSI	1,200 PSI
3,000 PSI	1,200 PSI

5. Turn the accumulator pumps on and record the recharge time. This time should not exceed 10 minutes.
6. Open annular and ram-type preventers. Close HCR valve.
7. Place all 4-way control valves in full open or full closed position. Do not leave in neutral position.

4. CASING AND CEMENTING PROGRAM

- a. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Interval</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>
Surface	0-400'	17-1/2"	13-3/8"	48#	H40	STC	New
Intermediate	400'-3,750'	11"	8-5/8"	32#	J55	STC	New
Production	3,750' – 10,400'	7-7/8"	5-1/2"	17#	L80	LTC	New

- b. Casing design subject to revision based on geologic conditions encountered.
- c. The cementing program will be as follows:

<u>Interval</u>	<u>Type</u>	<u>Amount</u>	<u>Yield</u>	<u>Washout</u>	<u>Excess</u>
Surface	35:65 Poz:C (Lead)	135 sx	2.07	20%	100%
	Class C (Tail)	210 sx	1.34		100%
Intermediate	50:50 Poz:C (Lead)	590 sx	2.48	20%	75%
	Class C (Tail)	150 sx	1.32		50%
Production	50:50 Poz:H (Lead)	405 sx	2.5	10%	25%
	50:50 Poz:H (Tail)	385 sx	1.35		25%

5. MUD PROGRAM

a. The proposed circulating mediums to be used in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Surface	Native/Spud Mud	8.6 – 9	29-38	NC
Intermediate	Brine	9.7 - 10	29-32	NC
Production	FW-Cut Brine	8.4 – 9	29-34	NC-10

Will be using Lea C. Alternative. Fresh H₂O will be used to 2081 ft.

JSS

A closed system will be utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

6. TESTING, LOGGING AND CORING

The anticipated type and amount of testing, logging and coring are as follows:

- Drill stem tests are not planned.
- The logging program will consist of Natural GR, Density-Neutron, PE & Dual Laterolog from TD to surface casing; Neutron-GR surface casing to surface.
- Cores samples are not planned.

7. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- The estimated bottom hole pressure is 4000 psi. No abnormal pressures or temperatures are anticipated.
- Hydrogen sulfide gas is not anticipated.

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : Neuhaus 14 Federal #5

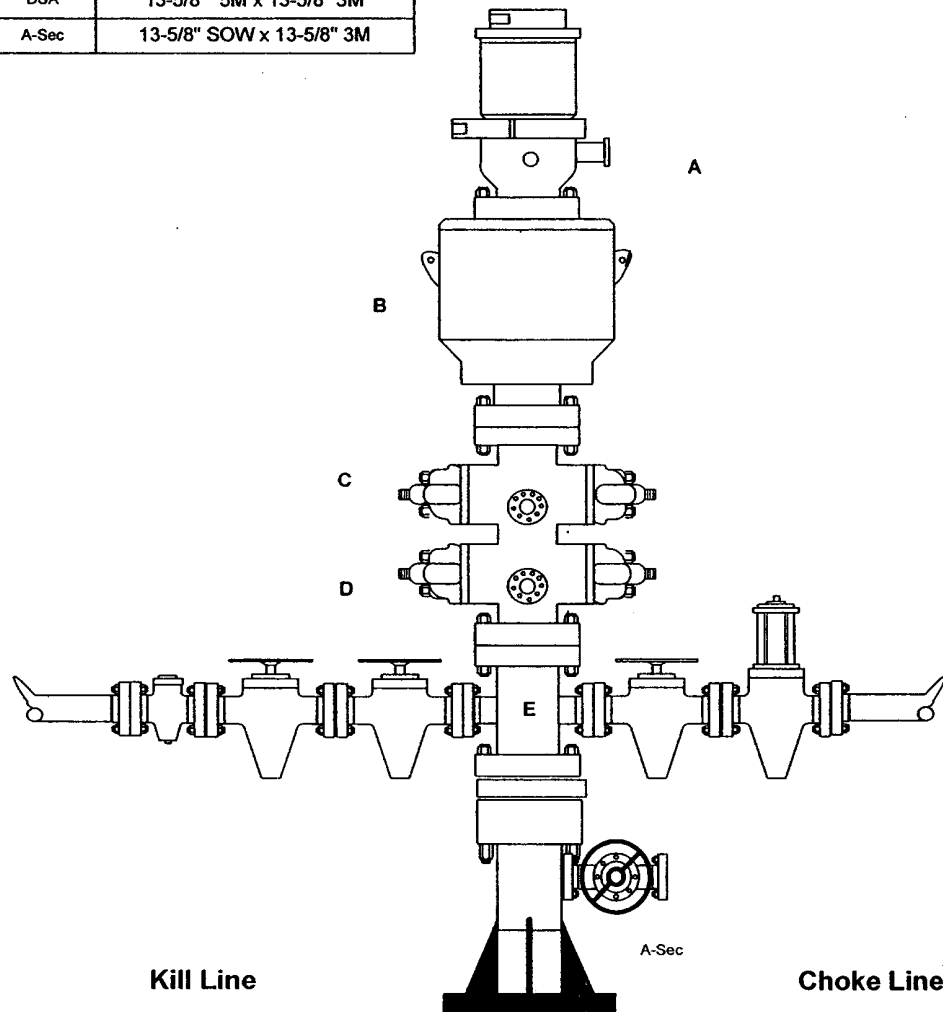
RIG :

COUNTY : Lea

STATE: New Mexico

OPERATION: Drill out below 13-3/8" 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	13-5/8" 5M x 13-5/8" 3M		
A-Sec	13-5/8" SOW x 13-5/8" 3M		



SIZE	PRESSURE	DESCRIPTION
2"	5,000#	Check Valve
2"	5,000#	Gate Valve
2"	5,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	5,000#	Gate Valve
4"	5,000#	HCR Valve

Exhibit F-1

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : Neuhaus 14 Federal #5

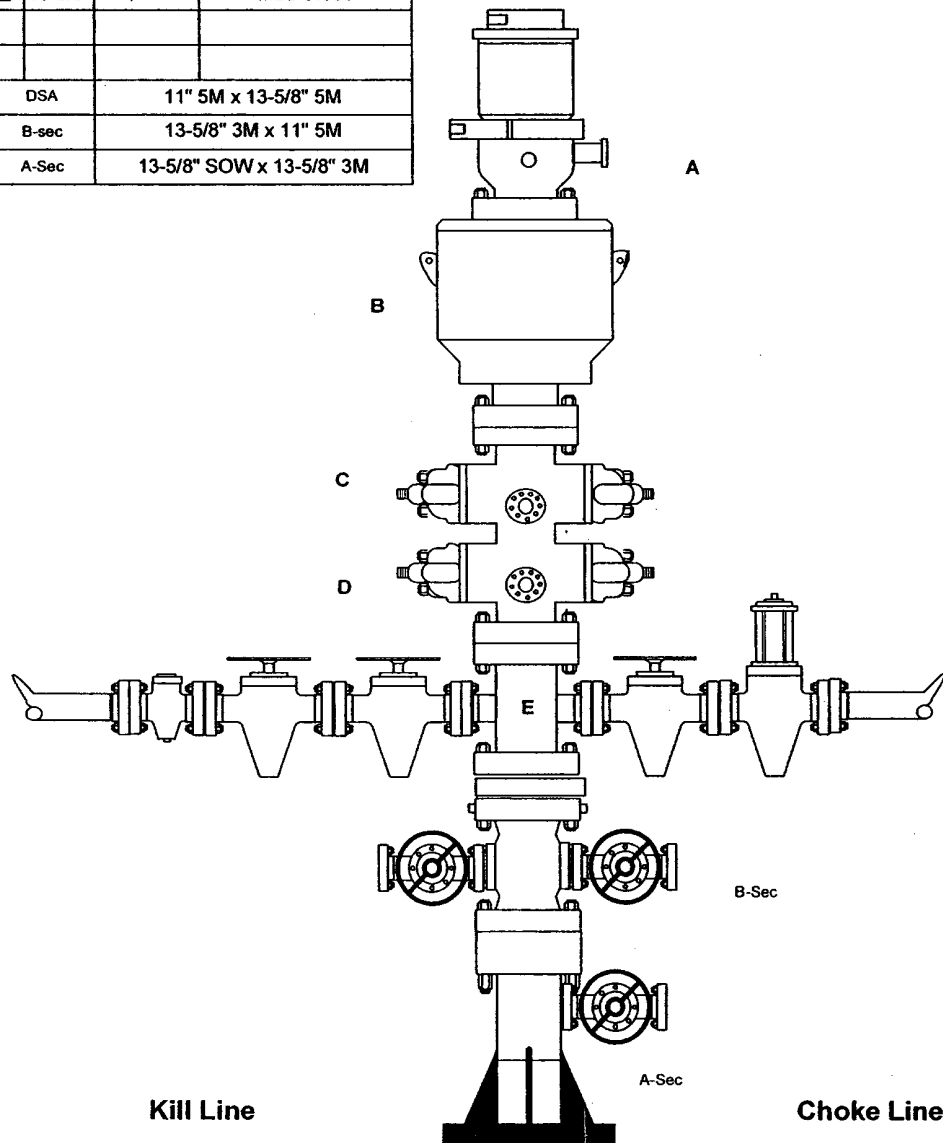
RIG :

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"	5,000#	Check Valve
2"	5,000#	Gate Valve
2"	5,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	5,000#	Gate Valve
4"	5,000#	HCR Valve

Exhibit *F-2*



RECEIVED

2005 MAR 24 AM 11:29

Regulatory Department

BUREAU OF LAND MANAGEMENT
ROSSELL OFFICE

March 23, 2005

VIA EXPRESS MAIL

Bureau of Land Management
Roswell Field Office
Linda Askwig
2909 West Second Street
Roswell, NM 88201-2019

Re: Private Surface Owner Agreement
Neuhaus 14 Federal 5
14-20S-35E
Lea County, New Mexico

Dear Linda,

This letter is to inform you per Cecil Gutierrez that Chesapeake Operating, Inc. has obtained a verbal agreement with the surface owner for the Neuhaus 14 Federal 5.

Please let me know if you need anything else.

Chesapeake Operating, Inc.

Linda Good
Permitting Agent

g:\regops\federal_regulatory_permitting\correspondence_blm\surface_owner_agreement_letter_03/23/2005

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., 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-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-37351
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Neu Haus "14" Federal
8. Well Number 005
9. OGRID Number 147179
10. Pool name or Wildcat Featherstone; Bone Spring, East

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator Chesapeake Operating, Inc.	
3. Address of Operator P. O. Box 11050 Midland, TX 79702-8050	
4. Well Location Unit Letter <u>A</u> : 1090 feet from the <u>North</u> line and <u>330</u> feet from the <u>East</u> line Section <u>14</u> Township <u>20S</u> Range <u>35E</u> NMPM County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3658.3' GR	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type <u>Drilling</u> Depth to Groundwater <u>100'</u> Distance from nearest fresh water well <u>1000+</u> Distance from nearest surface water <u>1000+</u>	
Pit Liner Thickness: <u>12</u> mil Below-Grade Tank: Volume <u>12,139</u> bbls; Construction Material	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Drilling Pit ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Chesapeake, hereby certifies that we will close the drilling pit for this well according to NMOCD Guidelines For Pit Closure Section B3b.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Brenda Coffman TITLE Regulatory Analyst DATE 04/29/2005

Type or print name Brenda Coffman
For State Use Only

E-mail address: bcoffman@chkenergy.com Telephone No. (432)687-2992

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE JUL 07 2005

Conditions of Approval (if any):