

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

Form C-101
Revised March 17, 1999

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 SAGE ENERGY COMPANY, P.O. DRAWER 3068 Midland, TX. 79702		² OGRID Number 020054
		³ API Number 30-025-36166
⁴ Property Code 31994	⁵ Property Name SAGEBRUSH	⁶ Well No. 1-#

⁷Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	6	17S	35E		2286	NORTH	660	WEST	LEA

⁸Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	6	17S	35E		460	NORTH	660	WEST	LEA

⁹Proposed Pool 1

NORTH VACUUM ABO

¹⁰Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4029
¹⁶ Multiple N	¹⁷ Proposed Depth 9000'	¹⁸ Formation ABO	¹⁹ Contractor UNKNOWN	²⁰ Spud Date 3/10/03

²¹Proposed 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	400	400	GL
11	8 5/8	24 & 32	4600	1700	GL
7 7/8	5 1/2	15.5 & 17	8700	670	4100

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. DRILL WELL TO 8950, RUN OPEN HOLE LOGS, PLUG BACK WELL 165' ABOVE ABO pay AND SET CASING. DRILL A 4 3/4" HORIZONTAL LATERAL INTO ABO pay WITH INITIAL PAY PENETRATION EXPECTED TO BE 525' FSL OF LEASE (2121' FNL). THIS LATERAL WILL BE EXTENDED TO THE NORTH, 0° AZIMUTH, TO AN END POINT 460' FNL. THIS WILL BE A STANDARD LOCATION. THE WELL WILL BE ACIDIZED AND PLACED ON PUMP. BLOW OUT PREVENTION: 4 1/2" DRILL PIPE RAMS, SET OF BLANKS, HYDRIL CLAMPED AROUND KELLY.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *George M. Harris Jr.*

Printed name: GEORGE M. HARRIS, JR.

Title: ENGINEER

Date: 2/17/03

Phone: 915-683-5271

OIL CONSERVATION DIVISION

Approved by:

Title: PETROLEUM ENGINEER

Approval Date: FEB 24 2003 Expiration Date:

Conditions of Approval:

Attached ☐

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
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 October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-36166		Pool Code 61760	Pool Name North Vacuum Abo
Property Code 31994	Property Name Sagebrush		Well Number 1
OGRID No. 20054	Operator Name Sage Energy Company		Elevation 4029'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	6	17-S	35-E		2286	North	660	West	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	6	17-S	35-E		460	North	660	West	Lea

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

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

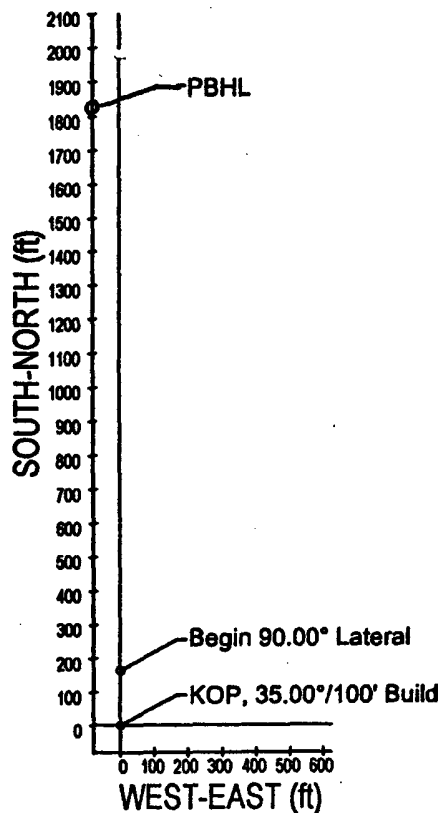
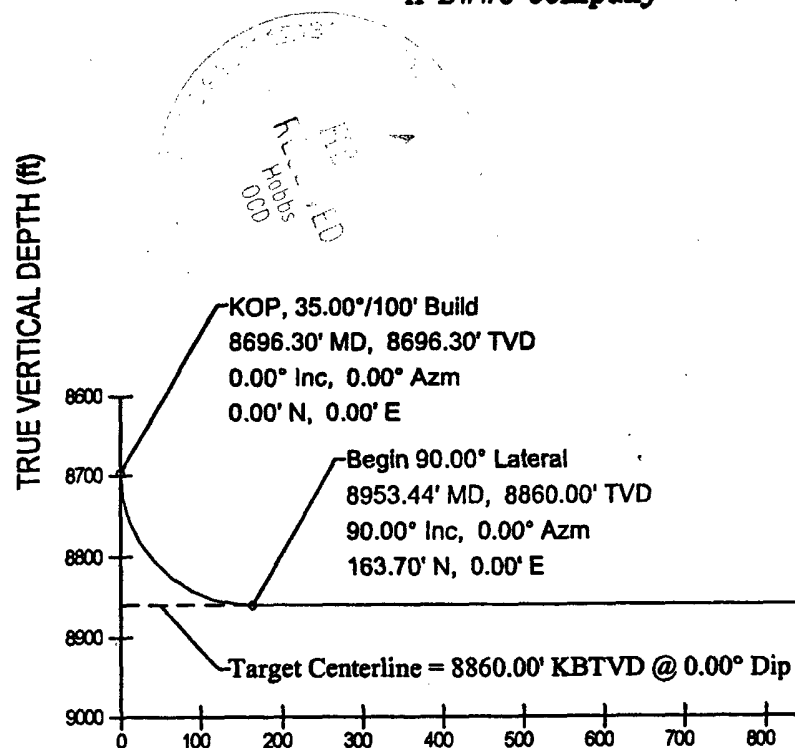
Sage Energy Co "Sagebrush" Lease #1-H Gr Elev 4029'				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>George M. Harris, Jr.</i> Signature GEORGE M. HARRIS, JR. Printed Name ENGINEER Title 2/17/03 Date
				18 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. February 3, 2003 Date of Survey Signature and Seal of Professional Surveyor: <i>Max A. Schumann, Jr.</i> Max A. Schumann, Jr. Certificate 1510 Certificate Number Job No. 67,848A

Company: Sage Energy
Lease/Well: Sage Brush 1-H
Location: Lea County
Rig Name: Unknown

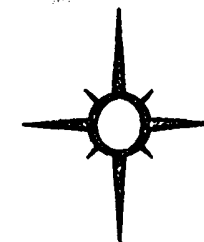
Sage Energy

State/Country: New Mexico
Declination:
Grid: Assumed to True North
Date/Time: 02/02/03

MULTI-SH · T
A BWVC Company



Bearings Referenced to Assume True North



PBHL
10769.74' MD, 8860.00' TVD
90.00° Inc, 0.00° Azm
1827.00' N, 0.00' E

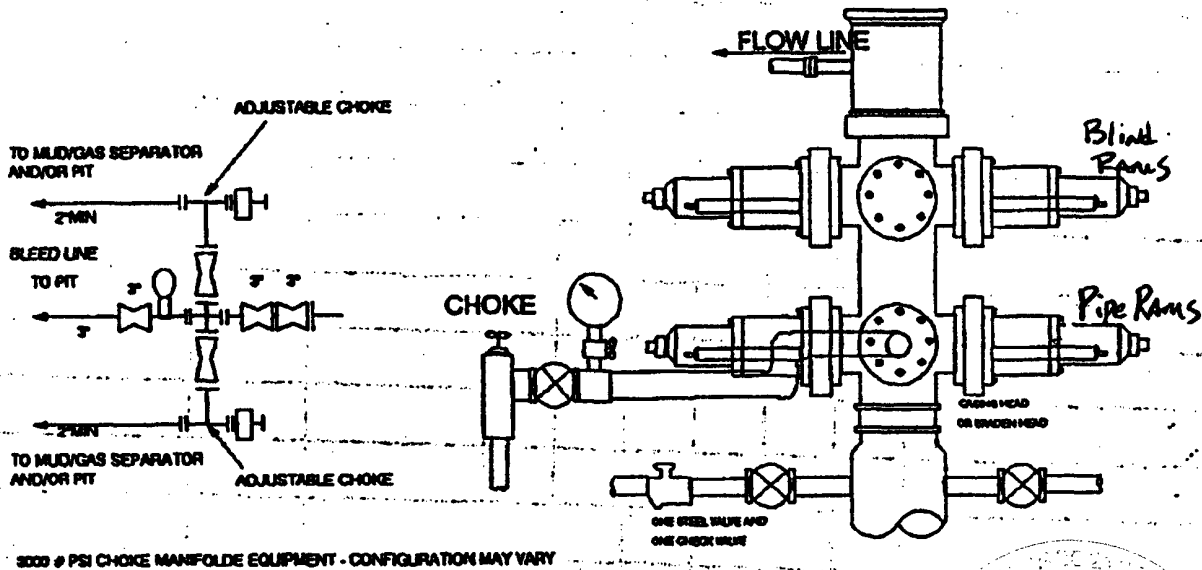
Drawn By: CLD

VERTICAL SECTION (ft) @ 0.00° Azm

Prop Rev 0

PCN03024r0.dwg

5000 PSI WP



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate blowout preventer with lower rams for pipe and upper rams blind, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G. Valve to control flow through drill pipe to be located on rig floor.
- H. All chokes will be adjustable. Choke spool may be used between rams.

DIAGRAM 1

"EXXON-STATE"

"STATE"

"STATE"

"STATE"

GRID N: 681791.2993
GRID E: 795472.2427
LATITUDE: 32°52'17.4950"
LONGITUDE: -103°30'20.1563"

GRID N: 681808.2284
GRID E: 800898.3621
LATITUDE: 32°52'17.2531"
LONGITUDE: -103°29'18.9053"

36

N 89°48'52" E

5224.15'

31

32

1

660'

460' (BOH)

GRID N: 881593.4440
GRID E: 798134.3993
LATITUDE: 32°52'15.4860"
LONGITUDE: -103°30'12.4112"

6

5

"STATE"

SAGE ENERGY COMPANY
"SAGEBRUSH" LEASE

"STATE"

GR ELEV

4029'

#1-H.

GRID N: 679607.2974
GRID E: 796155.7611
LATITUDE: 32°51'55.8334"
LONGITUDE: -103°30'12.3436"

660'

845'

360' (SURFACE)

80 acres

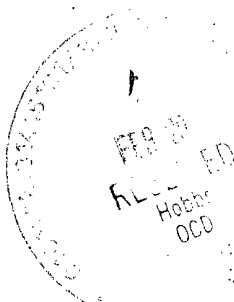
N 00°35'49" W

S 00°30'23" E

"STATE"

"STATE"

"STATE"



GRID N: 676515.5482
GRID E: 800743.1479
LATITUDE: 32°51'24.8837"
LONGITUDE: -103°29'18.8533"

12

S 89°48'52" W

5214.26'

7

8

"STATE"

"STATE"

"STATE"

"STATE"

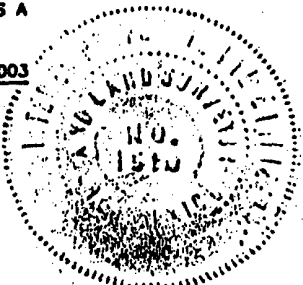
NOTE:

COURSES, DISTANCES AND COORDINATES SHOWN HEREON ARE LAMBERT GRID AND CONFORM TO THE "NEW MEXICO COORDINATE SYSTEM", NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM OF 1983. ALL DISTANCES AND COORDINATES ARE SHOWN IN GRID FEET.

THE UNDERSIGNED DOES HEREBY CERTIFY THAT THIS LOCATION WAS THIS DAY MADE ON THE GROUND BY ME OR UNDER MY SUPERVISION AND THAT THIS PLAT IS A CORRECT REPRESENTATION THEREOF.

DATED THIS 3RD DAY OF FEBRUARY, 2003

Max A. Schumann, Jr.
MAX A. SCHUMANN, JR.
RPLS 1510



SCHUMANN ENGINEERING CO., INC.

REGISTERED PROFESSIONAL LAND SURVEYORS
LICENSED STATE LAND SURVEYORS

REGISTERED PROFESSIONAL CIVIL ENGINEERS
TEXAS and NEW MEXICO

Civil Engineering ~ Land Surveying

408 N. PECOS STREET - P. O. BOX 504
MIDLAND, TEXAS 79702-0504

Office (915) 684-5548
Fax (915) 684-6973

LOCATION PLAT

SAGE ENERGY COMPANY

WELL NO. 1-H
"SAGEBRUSH" LEASE

SURFACE LOCATION
2286 FEET FROM THE NORTH AND
660 FEET FROM THE WEST LINES
BOTTOM OF HOLE LOCATION
460 FEET FROM THE NORTH AND
660 FEET FROM THE WEST LINES

SECTION 6, T-17-S, R-35-E,

LEA COUNTY, NEW MEXICO

SCALE: 1" = 1000'

PROJECT: 67848SEC
JOB NO: 67,848