

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
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

Operator Name and Address: SAGE ENERGY COMPANY P.O. DRAWER 3068 MIDLAND, TX. 79702		OGRID Number 20054
		API Number 30-025-32244
Property Code 9867	Property Name NORTH VACUUM ABO NORTH UNIT "3"	Well No. 2

Surface Location									
UL or lot no. I	Section 1	Township 17S	Range 34E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the	East/West line EAST	County LEA

Proposed Bottom Hole Location If Different From Surface									
UL or lot no. G	Section 1	Township 17S	Range 34E	Lot Idn	Feet from the 2464 1146	North/South line NORTH SOUTH	Feet from the 1656 1523	East/West line EAST	County LEA
Proposed Pool 1					Proposed Pool 2				

Work Type Code D	Well Type Code O	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 4023'
Multiple NO	Proposed Depth	Formation ABO	Contractor KEY	Spud Date 11/10/00 (EST.)

Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

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. This well is an ABO pro ducer, perforated from 8725'-8828'. 4 1/2" production casing is set at 8844'. Two 3-7/8" ID. horizontal laterals will be drilled, oriented at azimuths 226° and 310°. The lateral lengths will be 1200' and 1300' accordingly. Each lateral will be completed open hole, individually acidized and returned to production.

Blowout Prevention: 2 7/8" Pipe Rams, Blind Rams, Hydro Check Around Kelly

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: **10/13/00**
Phone: **915-683-5271**

OIL CONSERVATION DIVISION

Approved by: *William J. Harris*
Title: **REGIONAL SUPERVISOR**
Approval Date: **10/13/00** Expiration Date: **10/13/01**
Conditions of Approval: **Attached** ☐

DONNA PITZER

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 87418
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 30-025-32244		Pool Code Nvanu	Pool Name Vacuum Aho
Property Code 9867	Property Name Nvanu "3"		Well Number 2
OGRID No. 20057	Operator Name Sage Energy Company		Elevation 4025'

10 Surface Location

UL or lot no. I	Section 1	Township 17-S	Range 34-E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 550	East/West line East	County Lea
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11 Bottom Hole Location If Different From Surface

UL or lot no. G O	Section 1	Township 17-S	Range 34-E	Lot Idn	Feet from the 2464 1146	North/South line NORTH SOUTH	Feet from the 1656 1523	East/West line EAST	County LEA
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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

16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <i>George M. Harris, Jr.</i> Printed Name: GEORGE M. HARRIS, JR. Title: ENGINEER Date: 10/25/00	
					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. Date of Survey: October 16, 2000 Signature and Seal of Professional Surveyor: <i>Max A. Schumann, Jr.</i> Max A. Schumann, Jr. No. 1510 Job No. 66,129 Certificate Number	

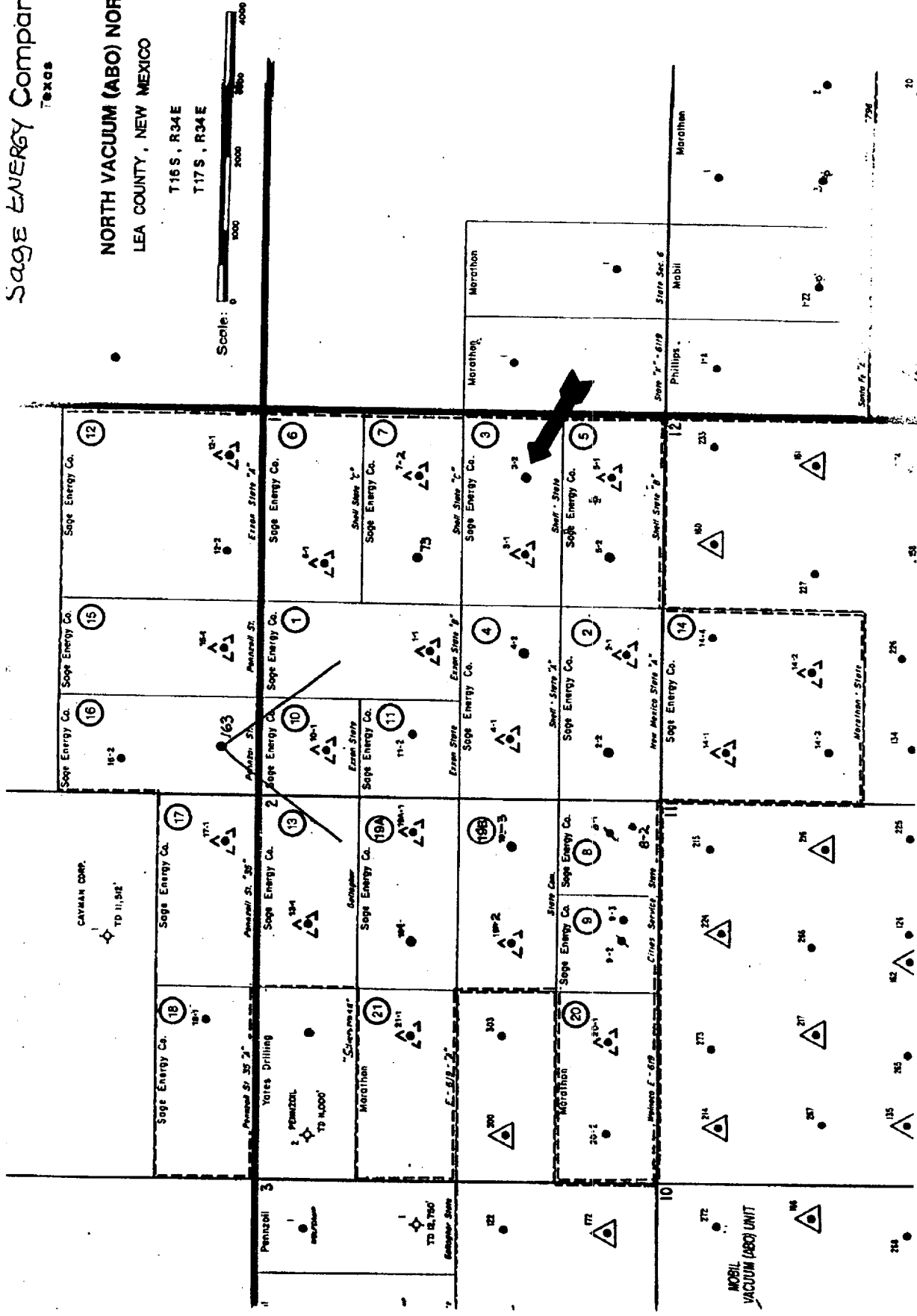
DONNA P.

Sage Energy Company
Texas

NORTH VACUUM (ABO) NORTH UNIT
LEA COUNTY, NEW MEXICO

T16S, R34E
T17S, R34E

Scale: 0 1000 2000 3000 4000



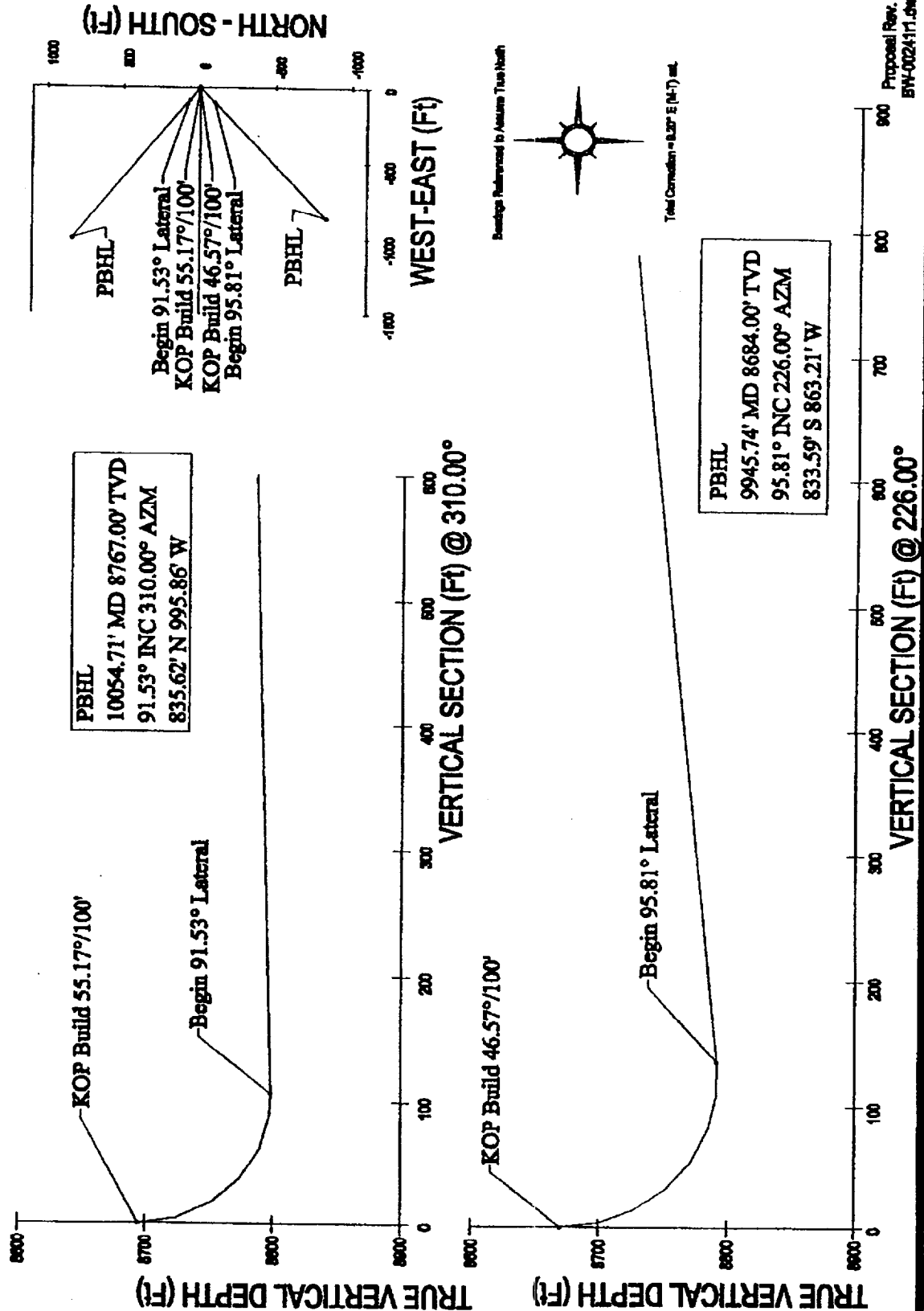
Donna P.

Company: Sage Energy Company
 Lease/Well: N/ANU S-2
 Location: Less County
 Rig Name: Unknown



Sage Energy Company

State/Country: New Mexico
 Declination: 8.20° E (M-T) est.
 Grid: Assumed to True
 Date/Time: 10-23-00



Proposal Rev. 1
 BWH-0024111.dwg

Donna P



Job Number: P00-241
 Company: Sage Energy Company
 Lease/Well: NVANU 3-2
 Location: Lea County
 Rig Name: Unknown
 RKB: Unknown
 G.L. or M.S.L.: 4022.7'

State/Country: New Mexico
 Declination: 9.20° E (M-T) est.
 Grid: Assumed to True
 File name: G:\00PROP~1\00240\SVP00241\00241.SVY
 Date/Time: 23-Oct-00 / 09:26
 Curve Name: ABO SW Lateral Rev. 1

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 226.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	Vertical Section FT	N-S FT	E-W FT	Dogleg Severity Deg/100
KOP Build 46.57°/100'								
8670.00	.00	226.00	8670.00	-4636.00	.00	.00	.00	.00
8700.00	13.97	226.00	8699.70	-4665.70	3.64	-2.53	-2.62	46.57
8730.00	27.94	226.00	8727.65	-4693.65	14.34	-9.96	-10.32	46.57
8760.00	41.92	226.00	8752.18	-4718.18	31.48	-21.87	-22.64	46.57
8790.00	55.89	226.00	8771.86	-4737.86	54.03	-37.53	-38.87	46.57
8820.00	69.86	226.00	8785.50	-4751.50	80.67	-56.03	-58.03	46.57
8850.00	83.83	226.00	8792.31	-4758.31	109.81	-76.28	-78.99	46.57
Begin 95.81° Lateral								
8875.72	95.81	226.00	8792.39	-4758.39	135.48	-94.11	-97.46	46.57
PBHL								
9945.74	95.81	226.00	8684.00	-4650.00	1200.00	-833.59	-863.21	.00

Donna P.



Job Number: P00-241

Company: Sage Energy Company

Lease/Well: NVANU 3-2

Location: Lea County

Rig Name: Unknown

RKB: Unknown

G.L. or M.S.L.: 4022.7'

State/Country: New Mexico

Declination: 9.20° E (M-T) est.

Grid: Assumed to True

File name: G:\00PROP~1\00240\SV00241\00241.SVY

Date/Time: 23-Oct-00 / 09:26

Curve Name: ABO NW Lateral Rev. 1

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 310.00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	Vertical Section FT	N-S FT	E-W FT	Dogleg Severity Deg/100
KOP Build 55.17°/100'								
8695.00	.00	337.02	8695.00	-4661.00	.00	.00	.00	.00
8725.00	16.55	310.00	8724.58	-4690.58	4.30	2.77	-3.30	55.17
8755.00	33.10	310.00	8751.72	-4717.72	16.85	10.83	-12.91	55.17
8785.00	49.65	310.00	8774.15	-4740.15	36.82	23.54	-28.05	55.17
8815.00	66.20	310.00	8790.03	-4756.03	61.95	39.82	-47.45	55.17
8845.00	82.75	310.00	8798.03	-4764.03	90.75	58.33	-69.52	55.17
Begin 91.53° Lateral								
8860.91	91.53	310.00	8798.82	-4764.82	106.63	68.54	-81.68	55.17
PBHL								
10054.71	91.53	310.00	8767.00	-4733.00	1300.00	835.62	-995.86	.00