

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
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address SAGE ENERGY Co., P.O. DRAWER 3068 TX 79702		OGRID Number 070054
Property Code 9867	Property Name NORTH VACUUM ABO NORTH UNIT	API Number 30-025-24631
Proposed Pool 1 NORTH VACUUM ABO NORTH		Well No. 1
Proposed Pool 2		

UL or lot no. B	Section 1	Township 17-S	Range 34-E	Lot Idn	Feet from the 800	North/South line NORTH	Feet from the 2120	East/West line EAST	County LEA
---------------------------	---------------------	-------------------------	----------------------	---------	-----------------------------	----------------------------------	------------------------------	-------------------------------	----------------------

Proposed Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 1	Township 17-S	Range 34-E	Lot Idn	Feet from the 1840	North/South line NORTH	Feet from the 1005	East/West line EAST	County LEA

Work Type Code Horizontal		Well Type Code I	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 4034'
Multiple N	Proposed Depth 10,302	Formation ABO	Contractor	Spud Date	
Depth to Groundwater 85'		Distance from nearest fresh water well 1261'		Distance from nearest surface water N/A	
Pit: Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 400 bbls Drilling Method: Closed-Loop System ☒ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐					

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.

A WHIPSTOCK will be SET AT 8711' AND A WINDOW will be MILLED IN 5 1/2" CASING. A 4 3/4" LATERAL will be drilled AT AN AZIMUTH OF 133° WITH A TOTAL VERTICAL SECTION OF 1525'. THIS WELL will CONTINUE TO BE UTILIZED AS AN ABO WATER INJECTION WELL.

Blowout Prevention: 7 1/8" BOP 5000 # w/ hydraulic closing unit & 7 1/8" ANNULAR Hydrill 5000 #, 10,000# CIRCULATING MANIFOLD.

Permit Expires 1 Year From Approval
Data Unless Drilling Underway
Horizontal

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☒ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Printed name: GEORGE M. HARRIS, JR.		Approved by: Paul J. Harris	
Title: DISTRICT ENGINEER		Title: PETROLEUM ENGINEER	
E-mail Address: gharris@sagemid.com		Approval Date: DEC 29 2004	
Date: 12/13/04		Expiration Date:	
Phone: 432-683-5271		Conditions of Approval Attached ☐	

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

¹ API Number 30-025-24631		² Pool Code 61760	³ Pool Name North Vacuum Abo
⁴ Property Code 9867	⁵ Property Name North Vacuum Abo North Unit <u>6-C</u>		⁶ Well Number 1
⁷ OGRID No. 20054	⁸ Operator Name Sage Energy Company		⁹ Elevation 4034

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
B	1	17-S	34-E		800	North	2120	East	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
H	1	17-S	34-E		1840	North	1005	East	Lea
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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 <i>George M. Harris Jr.</i> Signature GEORGE M. HARRIS JR. Printed Name DISTRICT ENGINEER Title 12/13/04 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. December 3, 2004 Date of Survey Signature and Seal of Professional Surveyer: <i>Max A. Schumann, Jr.</i> Max A. Schumann, Jr. Certificate Number 1510	

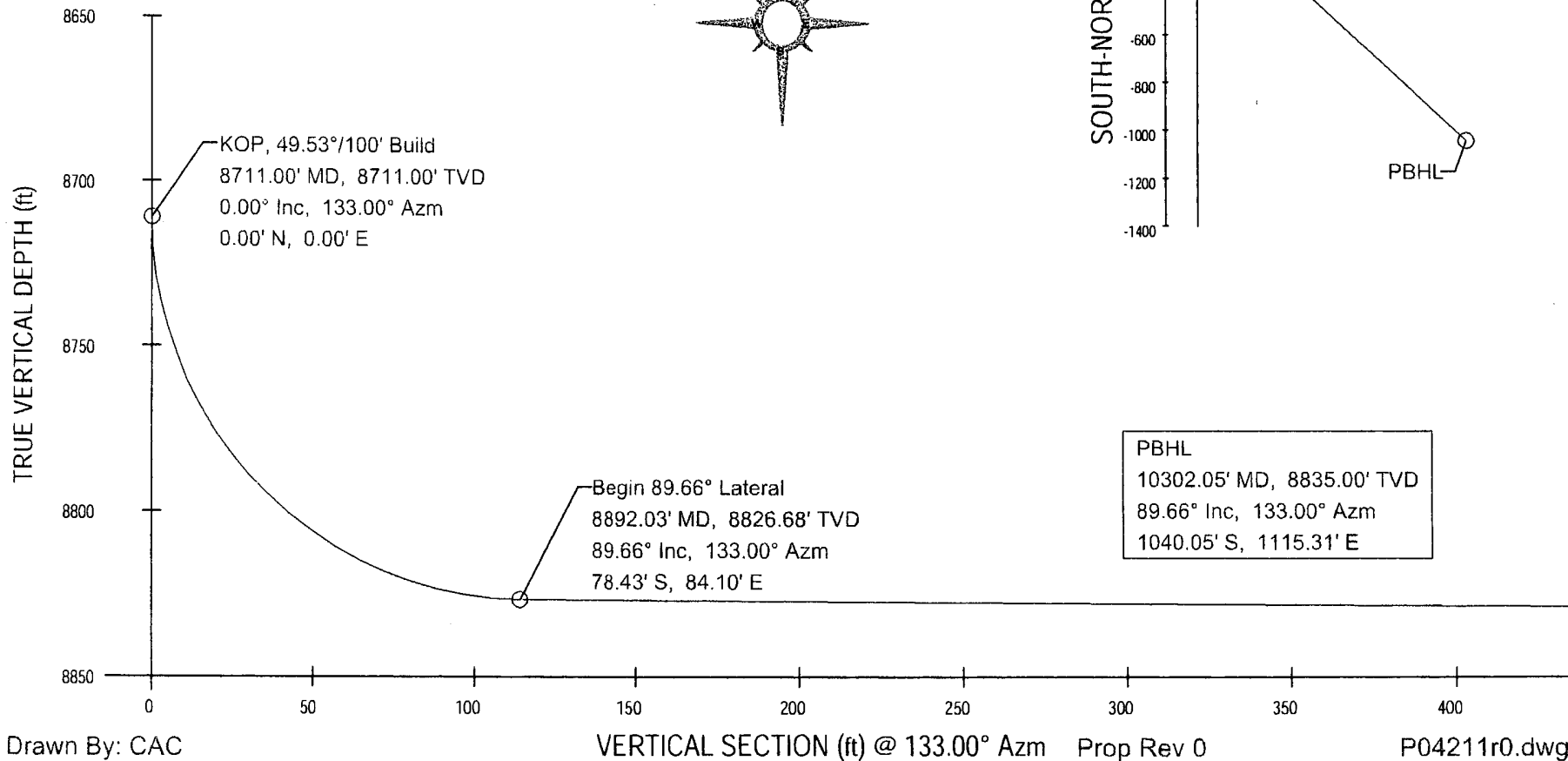
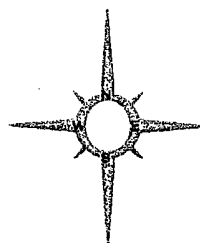
Company: Sage
Lease/Well: 6 "C" #1
Location: Lea County
Rig Name: Unknown

Sage

State/Country: New Mexico
Declination:
Grid: Referenced to Assume True North
Date/Time: 11/18/04



Bearings Referenced to Assume True North



Drawn By: CAC

	Job Number: P04-211	State/Country: New Mexico
	Company: Sage	Declination:
	Lease/Well: 6 "C" #1	Grid: Referenced to True North
	Location: Lea County	File name: F:\WELLPL-1\2004\PO4210'S\PO4211\04211.SVY
	Rig Name:	Date/Time: 18-Nov-04 / 09:48
RKB:	Curve Name: Prop Rev 0	
G.L. or M.S.L.:		

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 133.00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
KOP, 49.53°/100' Build									
8711.00	.00	133.00	8711.00	.00	.00	.00	.00	.00	.00
8741.00	14.86	133.00	8740.66	-2.64	2.83	3.87	3.87	133.00	49.53
8771.00	29.72	133.00	8768.35	-10.38	11.13	15.21	15.21	133.00	49.53
8801.00	44.58	133.00	8792.19	-22.70	24.34	33.28	33.28	133.00	49.53
8831.00	59.44	133.00	8810.61	-38.78	41.58	56.86	56.86	133.00	49.53
8861.00	74.29	133.00	8822.36	-57.54	61.70	84.37	84.37	133.00	49.53
8891.00	89.15	133.00	8826.67	-77.73	83.35	113.97	113.97	133.00	49.53
Begin 89.66° Lateral									
8892.03	89.66	133.00	8826.68	-78.43	84.10	115.00	115.00	133.00	49.53
PBHL									
10302.05	89.66	133.00	8835.00	-1040.05	1115.31	1525.00	1525.00	133.00	.00

SAGE ENERGY Co.
NVANU '6-C' #1
WELLBORE DIAGRAM

