

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A]** ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B]** ☐ Offset Operators, Leaseholders or Surface Owner
- [C]** ☐ Application is One Which Requires Published Legal Notice
- [D]** ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]** ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]** ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name	Signature	Title	Date

e-mail Address			

RECEIVED

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: SAGE ENERGY COMPANY
ADDRESS: P.O. DRAWER 3068, MIDLAND, TX 79702
CONTACT PARTY: GEORGE M. HARRIS, JR. PHONE: 432-683-5271
- Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ Yes ☐ No
If yes, give the Division order number authorizing the project: R-9359
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: GEORGE M. HARRIS, JR. TITLE: DISTRICT ENGINEER
SIGNATURE: George M. Harris, Jr. DATE: 12/2/04
(FILED 12/27/04)
- E-MAIL ADDRESS: g/harris@sagemid.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: ORIGINAL C-108 for PROTECT DATED 8/10/90

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include;

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

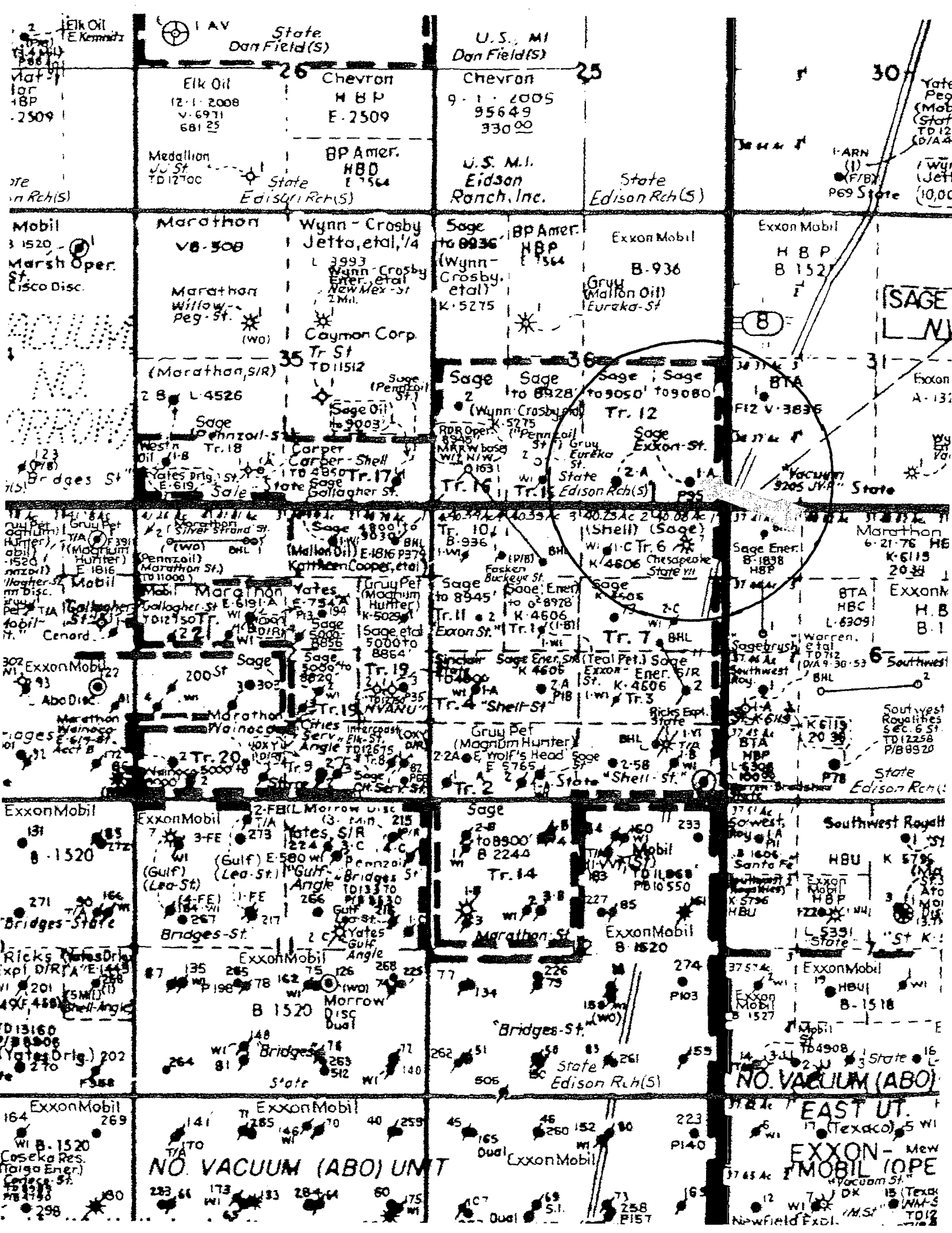
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



ADDENDUM TO FORM C-108

SAGE ENERGY COMPANY

APPLICATION FOR AUTHORIZATION TO INJECT

- VII.** 1.) Average daily injection rate is 200 bwpd, maximum daily injection rate is 450 bwpd. The total volume of fluid to be injected 1,460,000 barrels.
- 2.) This injection system is closed.
- 3.) The proposed average injection pressure is 4050#, maximum proposed injection pressure is 4500#.
- 4.) The injection fluid will be fresh water from the Ogallala. This water is compatible with the Abo formation as witnessed by the past performance of this flood. Fresh water analysis is attached.
- IX.** This well will not be stimulated.

INJECTION WELL DATA SHEET

OPERATOR: SAGE ENERGY COMPANYWELL NAME & NUMBER: NORTH VACUUM A60 NORTH UNIT 12-A #1WELL LOCATION: 460 FSL, 660 FELUNIT LETTER: "P"SECTION: 36TOWNSHIP: T-16-SRANGE: R-34-E

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC30-025-25146WELL CONSTRUCTION DATASurface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 8 5/8"

Cemented with: 760 sx. or _____ ft³

Top of Cement: GL Method Determined: CIRC.

Production Casing

Hole Size: 7 7/8" Casing Size: 4 1/2"

Cemented with: 800 sx. or _____ ft³

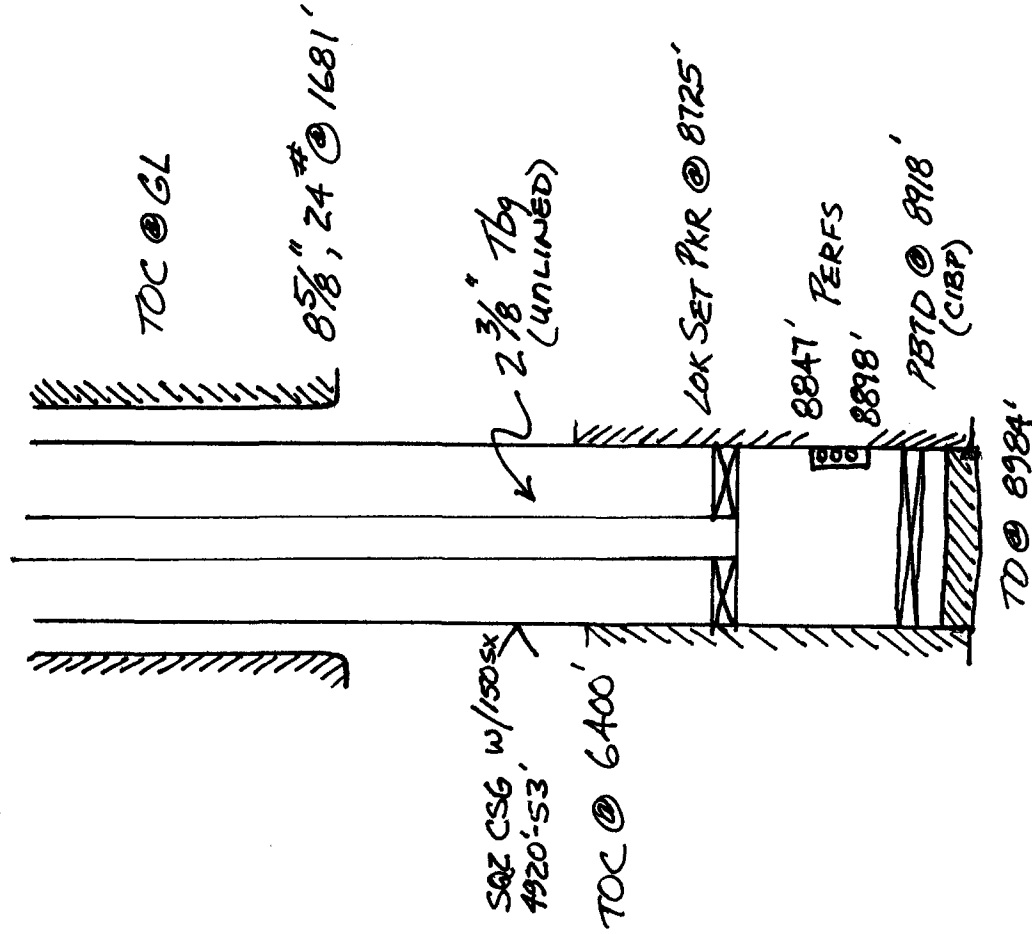
Top of Cement: 6400 Method Determined: CALCULATION

Total Depth: 8984

Injection Interval

8847 feet to 8898 (PERFORATIONS)

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" Lining Material: n/a

Type of Packer: LOK SET

Packer Setting Depth: 8725'

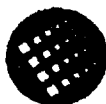
Other Type of Tubing/Casing Seal (if applicable): n/a

Additional Data

1. Is this a new well drilled for injection? Yes ✓ No
- If no, for what purpose was the well originally drilled? PRODUCTION

2. Name of the Injection Formation: Abo
3. Name of Field or Pool (if applicable): Vacuum, Abo North
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
- San Andres @ 4400' Wolfcamp @ 10,800'


REEF
 CHEMICAL

Company: Sage Energy
 Source: Fresh Water Well
 Number: 593

Location: NVANU
 Attention:
 Date Sampled: February 25, 2004
 Salesman: Robert Kepple

ANALYSIS	mg/L	EQ. WT.	MEQ/L
1. pH	7.64		
2. Specific Gravity 60/60 f.	1.002		
3. Hydrogen Sulfide	Negative		
4. Carbon Dioxide	Not Determined		
5. Dissolved Oxygen	Not Determined		
6. Hydroxyl (OH-)	0 /	17.0 =	0.00
7. Carbonate (CO3=)	0 /	30.0 =	0.00
8. Bicarbonate (HCO3-)	220 /	61.1 =	3.60
9. Chloride (Cl-)	1,100 /	35.5 =	30.99
10. Sulfate (SO4=)	18 /	48.8 =	0.37
11. Calcium (CA++)	0 /	20.1 =	0.00
12. Magnesium (Mg++)	0 /	12.2 =	0.00
13. Sodium (Na+)	804 /	23.0 =	34.96
14. Barium (Ba++)	0.00		
15. Total Iron (Fe)	0.00		
16. Manganese	0.00		
17. Strontium	0		
18. Potassium	62.00		
19. Total Dissolved Solids	2,204		

21. Resistivity @ 75 F. (calculated)

4.00 /cm.

22. CAC03 Saturation Index

@80 F.	0.0000
@100 F.	0.0000
@120 F.	0.0000
@140 F.	0.0000
@160 F.	0.0000

23. CASO4 Supersaturation Ratio

@70F	0.0000
@90F	0.0000
@110F	0.0000
@130F	0.0000
@150F	0.0000

Ratio Greater than 1 indicates Scale

PROBABLE MINERAL COMPOSITION				
COMPOUND	EQ. WT.	X	MEQ/L	= mg/L
Ca(HCO3)2	81.04		0.00	0
CaSO4	68.07		0.00	0
CaCl2	55.50		0.00	0
Mg(HCO3)2	73.17		0.00	0
MgSO4	60.19		0.00	0
MgCL2	47.62		0.00	0
NaHCO3	84.00		3.60	302
NaSO4	71.03		0.37	28
NaCl	58.46		30.99	1,812

Chemist

Robert Kepple

7002 2410 0000 1361 9392

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For delivery information visit our website at www.usps.com

OFFICIAL USE

MIDLAND, TX 79701

Postage	\$ 0.83	UNIT ID: 0704
Certified Fee	2.30	Postmark Here
Return Receipt Fee (Endorsement Required)		Clerk: KQNPCKD
Restricted Delivery Fee (Endorsement Required)		12/02/04
Total Postage & Fees	\$ 3.13	

Sent To **BTA - Land Dept**
 Street, Apt. No., or PO Box No. **104 S PECOS**
 City, State, ZIP+4 **MIDLAND TX 79701**

PS Form 3800, June 2002 See Reverse for Instructions

7002 2410 0000 1361 9406

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SANTA FE, NM 87504

Postage	\$ 0.83	UNIT ID: 0704
Certified Fee	2.30	Postmark Here
Return Receipt Fee (Endorsement Required)		Clerk: KQNPCKD
Restricted Delivery Fee (Endorsement Required)		12/02/04
Total Postage & Fees	\$ 3.13	

Sent To **STATE of New Mexico Land Office**
 Street, Apt. No., or PO Box No. **Box 1148**
 City, State, ZIP+4 **SANTA FE NM 87504**

PS Form 3800, June 2002 See Reverse for Instructions

7002 2410 0000 1361 9422

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OFFICIAL USE

OKLAHOMA CITY, OK 73154

Postage	\$ 0.60	UNIT ID: 0704
Certified Fee	2.30	Postmark Here
Return Receipt Fee (Endorsement Required)		Clerk: KQNPCKD
Restricted Delivery Fee (Endorsement Required)		12/03/04
Total Postage & Fees	\$ 2.90	

Sent To **CHESAPEAKE ENERGY CO - NM Land Dept**
 Street, Apt. No., or PO Box No. **PO Box 18496**
 City, State, ZIP+4 **OKLAHOMA CITY, OK 73154-0496**

PS Form 3800, June 2002 See Reverse for Instructions

7002 2410 0000 1361 9386

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OFFICIAL USE

HOUSTON, TX 77002

Postage	\$ 0.83	UNIT ID: 0704
Certified Fee	2.30	Postmark Here
Return Receipt Fee (Endorsement Required)		Clerk: KQNPCKD
Restricted Delivery Fee (Endorsement Required)		12/02/04
Total Postage & Fees	\$ 3.13	

Sent To **ExxonMobil - GREG STOUTE**
 Street, Apt. No., or PO Box No. **800 BELL ST #1440 D**
 City, State, ZIP+4 **HOUSTON TX 77002**

PS Form 3800, June 2002 See Reverse for Instructions

7002 2410 0000 1361 9378

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For delivery information visit our website at www.usps.com

OFFICIAL USE

HOUSTON, TX 77253

Postage	\$ 0.83	UNIT ID: 0704
Certified Fee	2.30	Postmark Here
Return Receipt Fee (Endorsement Required)		Clerk: KQNPCKD
Restricted Delivery Fee (Endorsement Required)		12/02/04
Total Postage & Fees	\$ 3.13	

Sent To **MARTIN OIL - JOE RUSNAK**
 Street, Apt. No., or PO Box No. **PO Box 3847**
 City, State, ZIP+4 **HOUSTON TX 77253**

PS Form 3800, June 2002 See Reverse for Instructions

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of **THE LOV-
INGTON DAILY LEADER** and not in any supplement there-
of, for one (1) day, beginning with the issue of
December 3, 2004 and ending with the issue
of December 3, 2004.

LEGAL NOTICE
Sage Energy Company,
P.O. Drawer 3068,
Midland, Texas 79702
(contact: George Harris,
432-683-5271) has
applied to convert the
NVANU Well 12A#1 to
water injection service in
the North Vacuum (Abo)
North Unit waterflood.

This well is located 460 FSL, 660 FEL of Sec 36, R-34-E, T-16-S in Lea County, New Mexico. The Operator intends to inject fresh water into the Abo formation at a depth of 8800'. Maximum rate is 450 bwpd at a maximum pressure of 4500#. Interested parties must

file objections or request
for hearing with the O
Conservation Division
1220 S. St. Francis Dr.
Santa Fe, New Mexico
87505 within 15 days of
today's date.

Published in the
Lovington Daily Leader
December 3, 2004.

And that the cost of publishing said notice is the sum of
\$ 14.94 _____ which sum has been (Paid) as
Court Costs.

Subscribed and sworn to before me this 22nd day of

Subscribed and sworn to before me this 22nd day of
December 2004.

December 2004.

Debbie Schilling

Notary Public, Lea County, New Mexico

My Commission Expires June 22, 2006

RICKS EXPLORATION INC.

State VII #1

Sec. 1-17S-34E

Lea Co., NM

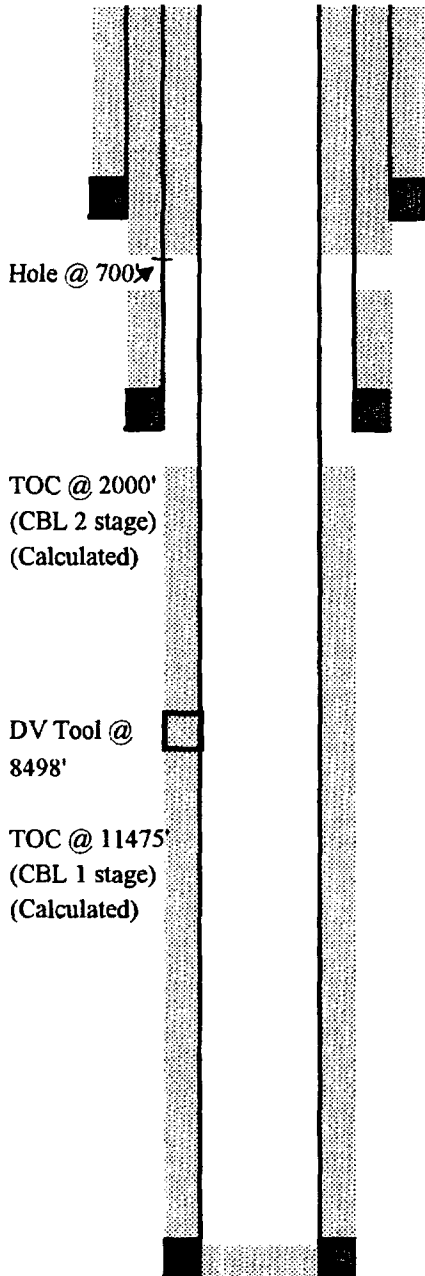
Spud Date: 9/02/01

Proposed 8 5/8" casing repair

GL: 4033'

DF: 4052'

KB: 4053'



SURFACE CASING:

11-3/4" 42# H40 set @ 1610'

CMT w/ 790 sxs to surf

INTERMEDIATE CASING:

8-5/8" 32# K-55 set @ 5020'

CMT w/ 1190 sxs. Did not circ to surf.

TOC @ 1740' (Temp Survey)

Hole indicated in 8 5/8" @ 700'

Pump CI C neat cmt dn 4 1/2" X 8 5/8" annulus until cmt returns to sfc
Est 300 sx

ATOKA PERFORATIONS

11528' - 11553' 4/SPF (1/93)

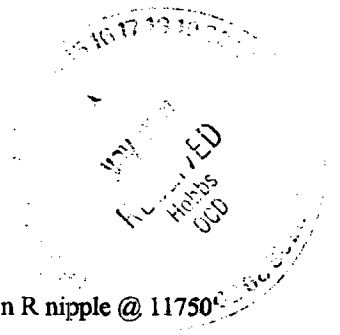
Loc set Pkr @ 11682' w/ on/off tool & plug set in R nipple @ 11750'
(4" TCP gun in hole)

11902' - 11914' 4/SPF (2/83)

PRODUCTION CASING:

4-1/2" 11.6# P110 LT&C @ 12732'

Cement w/ 1380 sx



PBTD: 12722'

TD: 12750'

BJR 11/12/01

**SAGE ENERGY COMPANY
SAGEBRUSH #1**

PROPERTY CODE: 31994 API No.: 30-025-36166 GL: 4029'

LOCATION: 2286' FNL, 660' FWL, SEC 6, T-17-S, R-35-E, Lea County, New Mexico

CASING REPORT
(CONTINUED)

RU BJ Services to cement with 1200 sxs 35/65 POZ Class C & 5% Sodium Chloride (BWOW) & 6% Bentonite. Tail in with 200 sxs Class C Neat. Flush with 182.2 bbls of fresh water. Plug down at 9:00 pm (CDST). Circulated 175 sxs of cement. ND to set slips, install B section of well head and NU. WOC 12 hrs and continue drilling.

SAGEBRUSH #1 - KEY DRILLING COMPANY RIG #38 - April 26, 2003

DRILLED 7-7/8" HOLE TO 9000' KB, CIRCULATED, AND POOH WITH DRILL STRING. RIH WITH DRILL PIPE OPEN ENDED TO 9000' KB. RIG UP BJ SERVICES AND SPOT 105 SXS CLASS "H" CEMENT WITH .3% CD-32 AT TD. POOH WITH 3 STANDS AND CIRCULATE FOR TWO HOURS. POOH AND LAY DOWN DRILL STRING. RUN 5-1/2" CASING AND 12 CENTRALIZERS TO 8763' DID NOT TAG CEMENT PLUG (CALCULATED TOP OF PLUG WAS 8712') PULL UP HOLE AND SET CASING AT 8712' AS DIRECTED:

1	5-1/2" Davis Float Shoe	1.55	Ft.
1	Jt. 5-1/2" J-55, 8-RD, 17#, LT&C Casing (Shoe Joint)	38.04	Ft.
1	5-1/2" Davis Float Collar	1.25	Ft.
4	Jts. 5-1/2" J-55, 8-RD, 17#, LT&C Casing	178.91	Ft.
1	Jt. 5-1/2" J-55, 8-RD, 17#, LT&C Casing (Marker Joint)	20.68	Ft.
14	Jts. 5-1/2" J-55, 8-RD, 17#, LT&C Casing	607.73	Ft.
149	Jts. 5-1/2" J-55, 8-RD, 15.5#, LT&C Casing	6625.56	Ft.
28	Jts. 5-1/2" J-55, 8-RD, 17#, LT&C Casing	1251.75	Ft.
197	Jts. 5-1/2" LT&C Casing	8725.47	Ft.
5-1/2" Casing Above 17' KB		13.47	Ft.
5-1/2" Casing Set @		8712	Ft.KB

RU BJ SERVICES AND CEMENT WITH 565 SXS (35:65) POZ CLASS "H" WITH 5 % SODIUM CHLORIDE, AND 6 % BENTONITE, TAIL IN WITH 150 SXS CLASS "H" CEMENT WITH .4% FL-62. FLUSH WITH 205 BBLs OF FRESH WATER. PLUG DOWN AT 1:15 AM CDST 4/26/2003 SET SLIPS, AND NIPPLE UP.

District I
1635 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Bizcas Rd., Aztec, NM 87410
District IV
1220 S. St. Francis, Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised June 10, 2003

Submit to Appropriate District Office
5 Copies

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Sage Energy Company 911 Central Parkway North, Suite 400 San Antonio, TX 78232		OGRID Number 20054
API Number 30-02536166		Reason for Filing Code/Effective Date NW/
Pool Name NORTH VACATION	Pool Code 61760	Well Number 1
Property Code 31994	Property Name SageBrush	

II. Surface Location

UL or lot no. E	Section 6	Township 17-S	Range 35-E	Lot/Idn	Feet from the 2206	North/South Line NORTH	Feet from the 660	East/West line WEST	County LEA
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Bottom Hole Location

UL or lot no. D	Section 6	Township 17-S	Range 35-E	Lot/Idn 780	Feet from the 1047	North/South line NORTH	Feet from the 670	East/West line WEST	County LEA
Log Code S	Preceding Method Code P	Gas Connection 7/17/03	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
35103	Sunoco Partners Marketing & Terminals L.P.	2835412	0	
36785	Duke Energy Field Services, LP	2835413	G	

IV. Produced Water

POD 2835414	POD ULSTR Location and Description "E" SEC 6, T-17-S, R-35-E
----------------	---

V. Well Completion Data

Spud Date 3/29/03	Ready Date 6/25/03	(RVD) TD 8884'	PSTD	Perforations 8712-10260	DHC, MC
Hole Size 17 1/2"	Casing & Tubing Size 13 3/8"	Depth Set 427'	Sacks Cement 100 (CIRC 55)		
11"	8 5/8"	2936'	1400 (CIRC 175)		
7 7/8"	5 1/2"	8712'	715		
	2 7/8"	8716'			

VI. Well Test Data

Date New Oil 6/18/03	Gas Delivery Date 7/17/03	Test Date 6/28/03	Test Length 24 hrs	Tbg. Pressure	Gas Pressure 45"
Choke Size N/A	Oil 173	Water 63	Gas 193	AOP N/A	Test Method PUMPING

I hereby certify that the rules of the Oil Conservation Division have been complied with and 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

E-mail Address: gharris@sagemid.com
Date: 7/3/03
Phone: 432-683-5271

OIL CONSERVATION DIVISION

Approved by: *Paul J. Harris*
Title: PETROLEUM-ENGINEER

Approval Date: JUL 31 2003

WELL API NO.

30-025-31621

5. Indicate Type of Lease

STATE ☒ FEE ☐

State Oil & Gas Lease No. V-3836

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>				7. Lease Name or Unit Agreement Name Vacuum, 9205 JV-P Com	
b. Type of Completion: NEW <input type="checkbox"/> WORK <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input checked="" type="checkbox"/> DIFF. WELL OVER BACK RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>				8. Well No. 1	
2. Name of Operator BTA Oil Producers				9. Pool name or Wildcat Vacuum, North (ABO)	
3. Address of Operator 104 S. Pecos, Midland, TX 79701 (915) 682-3753					
4. Well Location Unit Letter L 1980 Feet From The south Line and 660 Feet From The west Line Section 31 Township 16S Range 35E NMPM Lea County					
10. Date Spudded 11/15/02 (WO)	11. Date T.D. Reached ---	12. Date Compl. (Ready to Prod.) 12/06/02	13. Elevations (DF& RKB, RT, GR, etc.) 4025' GR 4042' RKB	14. Elev. Casinghead ---	
15. Total Depth 12,900'	16. Plug Back T.D. 12,260'	17. If Multiple Compl. How Many Zones? N/A	18. Intervals Drilled By N/A	Rotary Tools N/A	Cable Tools N/A
19. Producing Interval(s), of this completion - Top, Bottom, Name 8870-74', 8907-12', 8918-20'					20. Was Directional Survey Made No
21. Type Electric and Other Logs Run ---				22. Was Well Cored ---	

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68#	423'	17-1/2"	480 sx	Circ
8-5/8"	32#	4795'	11"	2500 sx	Circ
5-1/2"	17 & 20#	12900'	7-7/8"	2100 sx	Circ

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	12415'	---
26. Perforation record (interval, size, and number) 8870 - 74', 8907 - 12', 8918 - 20'				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 8870 - 8920' A w/11000 gal 20% NeFe			

28. PRODUCTION							
Date First Production 11/21/2002		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping			Well Status (Prod. or Shut-in) Producing		
Date of Test 12/06/2002	Hours Tested 24	Choke Size N/A	Prod'n For Test Period	Oil - Bbl 15	Gas - MCF 15	Water - Bbl 6	Gas - Oil Ratio 1000
Flow Tubing Press. ---	Casing Pressure ---	Calculated 24-Hour Rate	Oil - Bbl 15	Gas - MCF 15	Water - Bbl 6	Oil Gravity (Corr.) 49.8	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						Test Witnessed By Tom Williams	

30. List Attachments C 104		31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief	
Signature Pam Inskeep	Printed Name Pam Inskeep	Title Regulatory Administrator	Date 12/19/02



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

Joanna Prukop
Cabinet Secretary

RECEIVED

JAN 05 2005

Mark E. Fesmire, P.E.
Director

Oil Conservation Division

OIL CONSERVATION
DIVISION

Oil Conservation Division
1220 S Francis Dr
Santa Fe, NM 87505

RE: Proposed;
MC _____
DHC _____
NSL _____
NSP _____
SWD _____
WFX X _____
PMX _____

Gentlemen:

I have examined the application for the:

Sage Energy Co N. Vacuum Above North Unit # 1-P-36-165-34e
Operator Lease & Well No. Unit-S-T-R API # 30-025-25146

And my recommendations are as follows:

OK K2

Yours very truly,

Chris Williams (Signature)

Chris Williams
Supervisor, District I