

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO.

30-025-32244

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

K 4606

7. Lease Name or Unit Agreement Name

NORTH VACUUM ABO
NORTH UNIT "3"

8. Well No.

2

9. Pool name or Wildcat

NORTH VACUUM (ABO)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☒

GAS WELL ☐

DRY ☐

OTHER ☐

b. Type of Completion:

NEW
WELL ☐

WORK
OVER ☒

DISPER ☐

PLUG
BACK ☐

DEP
RESVR ☐

OTHER ☐

2. Name of Operator

SAGE ENERGY COMPANY

3. Address of Operator

P.O. DRAWER 3068, MIDLAND, TX. 79702

4. Well Location

SUR Unit Letter I 1380 Feet From The SOUTH Line and 660 Feet From The EAST Line
BHL 6/8 2813/1007 S 1658/1668 E
Section 1 Township 17-S Range 34-E NMPM LEA County

10. Date Spudded

11/10/00

11. Date T.D. Reached

12/9/00

12. Date Compl. (Ready to Prod.)

12/22/00

13. Elevations (DF & RKB, RT, GR, etc.)

4034' KB

14. Elev. Casinghead

4023'

15. Total Depth

10094' & 10036' O.H.

16. Plug Back T.D.

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

Cable Tools

YES

19. Producing Interval(s), of this completion - Top, Bottom, Name

8670'-10036' & 8692'-10094', Abo

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

N/A

22. Was Well Cored

NO

23.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48 #	397	17 1/2	420 SX, CIRC	0'
8 5/8	32 # & 24 #	4615	11	2200 SX, CIRC	0'
4 1/2	11.6 # & 10.5 #	8844	7 7/8	350 SX, TOC 7315	0'
				250 SX S&S 6126-5184	
				TOC by T.S.	

24.

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	8646'	N/A

26. Perforation record (interval, size, and number)

DUAL 3 7/8" HORIZONTAL LATERALS, OH.
SW LATERAL, AZIMUTH 235°, 1401' LONG.
NW LATERAL, AZIMUTH 321°, 1300' LONG.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8692'-10094'	1500 G 15% HCL, 27500 G 20% HCL
8670'-10036'	3000 G 15% HCL, 40000 G 20% HCL

28.

PRODUCTION

Date First Production 12/30/00	Production Method (Flowing, gas lift, pumping - Size and type pump) PUMP, 2" x 1 1/4" x 28" RHBC					Well Status (Prod. or Shut-in) PROD.	
Date of Test 1/06/01	Hours Tested 17 1/2	Choke Size —	Prod'n For Test Period	Oil - Bbl. 167	Gas - MCF 65	Water - Bbl. 17	Gas - Oil Ratio 389
Flow Tubing Press. N/A	Casing Pressure 45 #	Calculated 24-Hour Rate	Oil - Bbl. 229	Gas - MCF 89	Water - Bbl. 23	Oil Gravity - API - (Corr.) 35.7°	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

Test Witnessed By

EDDIE ELLIOTT

30. List Attachments

C-103, C-104, C-116, DIRECTIONAL SURVEYS.

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature George M. Harris Printed Name GEORGE M. HARRIS Title ENGINEER Date 1/08/01



Job Number: P00-241
 Company: Sage Energy Company
 Lease/Well: NVANU 3-2
 Location: Lea County
 Rig Name: Unknown
 RKB: 4034'
 G.L. or M.S.L.: 4022.7'

State/Country: New Mexico
 Declination: 9.20° E (M-T) est.
 Grid: Bearings Referenced to True
 File name: G:\00PROP-1\00240\SVP00241\00241.SVY
 Date/Time: 11-Dec-00 / 13:52
 Curve Name: Gyro Survey

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	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.45	166.24	200.00	.40	-.76	.19	.79	166.24	.23
400.00	.44	127.23	399.99	.67	-1.99	.99	2.22	153.67	.15
600.00	.13	24.78	599.99	.35	-2.25	1.69	2.81	143.05	.24
800.00	.40	143.29	799.99	.22	-2.60	2.20	3.41	139.74	.24
1000.00	.31	225.57	999.99	.85	-3.54	2.23	4.19	147.74	.24
1200.00	.27	15.57	1199.99	.99	-3.47	1.98	3.99	150.32	.28
1400.00	.16	48.78	1399.98	.30	-2.83	2.31	3.65	140.74	.08
1600.00	.18	151.84	1599.98	.11	-2.92	2.67	3.96	137.57	.13
1800.00	.28	200.16	1799.98	.63	-3.66	2.65	4.52	144.07	.10
2000.00	.89	247.14	1999.97	2.52	-4.72	1.05	4.83	167.45	.36
2200.00	.79	258.16	2199.95	5.14	-5.61	-1.73	5.87	197.16	.09
2400.00	.72	239.49	2399.93	7.53	-6.53	-4.16	7.74	212.53	.13
2600.00	.11	42.43	2599.93	8.56	-7.02	-5.12	8.69	216.07	.41
2800.00	.40	48.74	2799.93	7.67	-6.42	-4.46	7.82	214.80	.15
3000.00	.42	89.48	2999.92	6.44	-5.95	-3.20	6.76	208.29	.14
3200.00	.30	37.97	3199.92	5.39	-5.53	-2.15	5.94	201.22	.17
3400.00	.44	280.19	3399.92	5.32	-4.98	-2.58	5.61	207.38	.32
3600.00	.42	285.03	3599.91	6.15	-4.66	-4.05	6.17	220.97	.02
3800.00	.40	256.65	3799.90	7.12	-4.63	-5.43	7.14	229.56	.10
4000.00	.18	141.72	3999.90	7.76	-5.04	-5.92	7.77	229.59	.25
4200.00	.17	140.35	4199.90	7.81	-5.51	-5.53	7.81	225.11	.01
4400.00	.55	227.49	4399.90	8.79	-6.39	-6.05	8.80	223.44	.28
4600.00	.16	251.30	4599.89	10.00	-7.13	-7.02	10.01	224.58	.20
4800.00	.02	279.35	4799.89	10.28	-7.21	-7.32	10.28	225.44	.07

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5000.00	.31	193.04	4999.89	10.75	-7.73	-7.48	10.76	224.04	.15
5200.00	.96	211.70	5199.88	12.83	-9.69	-8.48	12.88	221.21	.34
5400.00	.44	211.59	5399.86	15.20	-11.77	-9.76	15.29	219.69	.26
5600.00	.43	244.55	5599.86	16.65	-12.74	-10.84	16.73	220.40	.12
5800.00	.82	231.15	5799.85	18.79	-13.96	-12.64	18.83	222.15	.21
6000.00	.95	222.72	5999.82	21.87	-16.08	-14.88	21.90	222.78	.09
6200.00	1.17	219.99	6199.79	25.56	-18.86	-17.31	25.60	222.55	.11
6400.00	1.46	211.13	6399.74	30.05	-22.61	-19.94	30.15	221.42	.18
6600.00	1.60	221.48	6599.67	35.30	-26.88	-23.11	35.45	220.69	.15
6800.00	.89	230.83	6799.62	39.63	-29.95	-26.16	39.77	221.14	.37
7000.00	1.20	238.05	6999.58	43.22	-32.04	-29.14	43.31	222.29	.17
7200.00	1.49	233.69	7199.53	47.85	-34.69	-33.02	47.89	223.58	.15
7400.00	1.40	264.64	7399.47	52.33	-36.46	-37.54	52.33	225.84	.39
7600.00	1.67	257.26	7599.40	56.73	-37.33	-42.82	56.81	228.92	.17
7800.00	1.89	250.41	7799.30	62.23	-39.08	-48.77	62.49	231.30	.15
8000.00	1.57	258.10	7999.21	67.55	-40.75	-54.56	68.09	233.24	.20
8200.00	2.32	244.22	8199.09	73.72	-43.07	-60.88	74.58	234.72	.44
8400.00	2.24	250.29	8398.93	81.13	-46.15	-68.21	82.36	235.92	.13
End of Gyro									
8600.00	2.83	248.90	8598.74	89.24	-49.25	-76.49	90.98	237.23	.30



Job Number: P00-241
 Company: Sage Energy Company
 Lease/Well: NVANU 3-2
 Location: Lea County
 Rig Name: Unknown
 RKB: 4034'
 G.L. or M.S.L.: 4022.7'

State/Country: New Mexico
 Declination: 9.20° E (M-T) est.
 Grid: Bearings Referenced to True
 File name: G:\00PROP-1\00240\SVP00241\00241.SVY
 Date/Time: 11-Dec-00 / 13:54
 Curve Name: DBD S/Tool Survey SW Lateral

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	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
Distance FT	Direction Deg								
Tie In to Gyro Survey									
8600.00	2.83	248.90	8598.74	89.23	-49.25	-76.49	90.97	237.22	.00
8699.00	4.10	246.00	8697.55	94.81	-51.57	-82.00	96.87	237.84	1.29
8709.00	7.60	195.00	8707.51	95.72	-52.35	-82.50	97.71	237.60	59.41
8725.00	14.60	190.00	8723.20	98.26	-55.37	-83.13	99.88	236.33	44.12
8740.00	22.70	186.10	8737.40	102.01	-60.11	-83.76	103.10	234.33	54.61
8755.00	29.90	190.30	8750.84	107.28	-66.68	-84.74	107.83	231.80	49.55
8770.00	37.90	192.70	8763.28	114.18	-74.87	-86.42	114.34	229.10	54.07
8785.00	46.00	193.70	8774.43	122.60	-84.62	-88.72	122.60	226.36	54.18
8802.00	54.40	193.70	8785.30	133.63	-97.30	-91.81	133.77	223.34	49.41
8817.00	62.90	195.20	8793.10	144.54	-109.69	-95.01	145.11	220.90	57.30
8832.00	70.30	198.90	8799.05	156.58	-122.83	-99.06	157.80	218.88	54.27
8849.00	78.80	202.90	8803.58	171.41	-138.12	-104.90	173.44	217.22	54.89
8864.00	85.90	206.50	8805.57	185.25	-151.61	-111.12	187.97	216.24	52.97
8880.00	93.90	208.80	8805.60	200.42	-165.77	-118.53	203.79	215.57	52.02
8911.00	96.60	213.20	8802.76	230.23	-192.23	-134.43	234.57	214.97	16.60
8943.00	99.10	216.50	8798.39	261.32	-218.24	-152.53	266.26	214.95	12.86
8975.00	102.00	219.20	8792.53	292.46	-243.07	-171.83	297.68	215.26	12.28
9006.00	102.20	221.50	8786.03	322.62	-266.17	-191.45	327.88	215.73	7.28
9038.00	102.00	223.80	8779.32	353.85	-289.18	-212.65	358.95	216.33	7.06
9069.00	101.10	224.20	8773.12	384.21	-311.03	-233.75	389.08	216.93	3.17
9100.00	100.10	223.10	8767.41	414.65	-333.08	-254.78	419.35	217.41	4.75
9132.00	99.50	224.20	8761.97	446.16	-355.89	-276.55	450.71	217.85	3.87

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9163.00	98.80	226.70	8757.04	476.76	-377.36	-298.36	481.06	218.33	8.28
9194.00	94.90	227.90	8753.34	507.52	-398.23	-320.97	511.48	218.87	13.15
9225.00	93.10	228.70	8751.18	538.42	-418.80	-344.06	542.01	219.40	6.35
9257.00	89.90	230.50	8750.34	570.34	-439.53	-368.42	573.51	219.97	11.47
9288.00	90.60	230.00	8750.21	601.25	-459.35	-392.25	604.04	220.49	2.77
9320.00	90.30	229.10	8749.95	633.19	-480.11	-416.60	635.66	220.95	2.96
9351.00	90.00	228.80	8749.87	664.15	-500.47	-439.98	666.37	221.32	1.37
9383.00	93.10	228.00	8749.01	696.11	-521.71	-463.90	698.12	221.64	10.00
9415.00	94.10	226.30	8747.00	728.04	-543.42	-487.31	729.92	221.88	6.15
9446.00	94.40	225.10	8744.70	758.95	-565.01	-509.44	760.77	222.04	3.98
9478.00	92.80	225.30	8742.69	790.88	-587.52	-532.10	792.66	222.17	5.04
9509.00	90.20	228.30	8741.88	821.86	-608.73	-554.68	823.54	222.34	12.80
9540.00	90.40	227.40	8741.72	852.85	-629.53	-577.66	854.40	222.54	2.97
9571.00	90.10	227.30	8741.58	883.84	-650.53	-600.46	885.30	222.71	1.02
9602.00	89.20	227.40	8741.77	914.83	-671.54	-623.26	916.20	222.86	2.92
9633.00	93.20	229.50	8741.12	945.78	-692.09	-646.45	947.04	223.05	14.57
9664.00	95.20	230.50	8738.85	976.62	-711.96	-670.14	977.74	223.27	7.21
9694.00	94.20	231.00	8736.39	1006.42	-730.88	-693.29	1007.39	223.49	3.72
9725.00	95.10	230.60	8733.88	1037.21	-750.40	-717.23	1038.04	223.71	3.18
9757.00	97.20	231.40	8730.45	1068.90	-770.43	-741.96	1069.60	223.92	7.02
9788.00	97.90	231.60	8726.38	1099.49	-789.56	-766.01	1100.07	224.13	2.35
9818.00	98.40	231.90	8722.13	1129.04	-807.94	-789.33	1129.52	224.33	1.94
9850.00	98.80	232.00	8717.34	1160.51	-827.44	-814.24	1160.88	224.54	1.29
9881.00	98.70	232.20	8712.63	1190.97	-846.26	-838.42	1191.26	224.73	.71
9912.00	99.00	232.00	8707.86	1221.43	-865.08	-862.59	1221.65	224.92	1.16
9943.00	99.10	231.80	8702.98	1251.88	-883.97	-886.68	1252.04	225.09	.71
9975.00	98.20	231.90	8698.17	1283.35	-903.51	-911.56	1283.46	225.25	2.83
10006.00	93.60	233.60	8694.98	1313.97	-922.17	-936.10	1314.03	225.43	15.81
10068.00	95.00	234.90	8690.33	1375.15	-958.29	-986.27	1375.16	225.82	3.08
Projected to TD									
10094.00	95.00	234.90	8688.07	1400.74	-973.18	-1007.46	1400.74	225.99	.00



Job Number: P00-241
 Company: Sage Energy Company
 Lease/Well: NVANU 3-2
 Location: Lea County
 Rig Name: Unknown
 RKB: 4034'
 G.L. or M.S.L.: 4022.7'

State/Country: New Mexico
 Declination: 9.20° E (M-T) est.
 Grid: Bearings Referenced to True
 File name: G:\00PROP-1\00240\SIP00241\00241.SVY
 Date/Time: 11-Dec-00 / 14:00
 Curve Name: DBD S/Tool Survey NW Lateral

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	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
Distance FT	Direction Deg								
Tie In to Gyro Survey									
8600.00	2.83	248.90	8598.74	26.94	-49.25	-76.49	90.97	237.22	.00
8700.00	16.90	254.50	8697.01	36.41	-54.05	-92.88	107.46	239.81	14.09
8715.00	23.50	265.10	8711.09	39.77	-54.89	-97.97	112.30	240.74	50.15
8731.00	30.80	266.20	8725.31	44.99	-55.43	-105.25	118.95	242.22	45.73
8762.00	44.60	270.70	8749.79	59.21	-55.83	-124.14	136.12	245.79	45.37
8793.00	55.90	282.40	8769.62	79.12	-52.92	-147.68	156.88	250.29	46.49
8856.00	80.60	298.50	8792.92	133.84	-32.05	-201.61	204.14	260.97	45.68
8887.00	85.20	304.60	8796.75	164.25	-15.96	-227.80	228.36	265.99	24.52
8917.00	87.00	307.80	8798.79	194.11	1.71	-251.95	251.95	270.39	12.22
8948.00	90.10	312.00	8799.58	225.09	21.59	-275.71	276.56	274.48	16.83
9011.00	90.00	315.00	8799.52	287.96	64.95	-321.41	327.90	281.42	4.76
9042.00	91.60	315.70	8799.09	318.82	87.00	-343.19	354.05	284.22	5.63
9073.00	91.00	316.30	8798.38	349.64	109.29	-364.72	380.74	286.68	2.74
9105.00	89.50	317.00	8798.24	381.43	132.56	-386.69	408.78	288.92	5.17
9168.00	90.50	317.30	8798.24	443.94	178.75	-429.53	465.24	292.59	1.66
9199.00	90.80	317.20	8797.89	474.69	201.51	-450.57	493.58	294.10	1.02
9230.00	90.10	316.50	8797.65	505.46	224.13	-471.77	522.30	295.41	3.19
9261.00	90.30	316.30	8797.54	536.27	246.58	-493.15	551.36	296.57	.91
9323.00	92.30	317.00	8796.13	597.83	291.65	-535.70	609.94	298.56	3.42
9355.00	93.30	317.00	8794.57	629.56	315.02	-557.49	640.34	299.47	3.12
9386.00	94.20	317.20	8792.54	660.25	337.68	-578.55	669.89	300.27	2.97
9416.00	94.80	316.90	8790.19	689.93	359.57	-598.93	698.58	300.98	2.23

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9479.00	92.60	318.90	8786.12	752.20	406.21	-641.07	758.94	302.36	4.71
9510.00	88.70	321.60	8785.77	782.69	430.04	-660.89	788.48	303.05	15.30
9542.00	87.40	321.80	8786.86	814.01	455.14	-680.71	818.85	303.77	4.11
9573.00	86.10	322.40	8788.62	844.27	479.56	-699.72	848.28	304.43	4.62
9603.00	85.40	322.40	8790.84	873.49	503.26	-717.97	876.79	305.03	2.33
9634.00	86.50	321.50	8793.03	903.74	527.61	-737.03	906.42	305.60	4.58
9665.00	89.70	319.20	8794.06	934.22	551.46	-756.80	936.41	306.08	12.71
9697.00	90.10	318.40	8794.12	965.84	575.54	-777.88	967.65	306.50	2.80
9728.00	90.80	318.30	8793.87	996.51	598.70	-798.48	998.00	306.86	2.28
9790.00	87.70	318.30	8794.68	1057.85	644.98	-839.71	1058.83	307.53	5.00
9822.00	88.50	318.40	8795.74	1089.49	668.88	-860.97	1090.26	307.84	2.52
9852.00	89.00	318.60	8796.40	1119.15	691.35	-880.84	1119.75	308.13	1.80
9883.00	89.90	319.40	8796.70	1149.77	714.74	-901.18	1150.21	308.42	3.88
9946.00	92.00	320.80	8795.65	1211.78	763.06	-941.58	1211.96	309.02	4.01
9977.00	91.60	320.90	8794.68	1242.21	787.09	-961.14	1242.30	309.31	1.33
10008.00	91.20	321.30	8793.92	1272.62	811.21	-980.61	1272.65	309.60	1.82
Projected to TD									
10036.00	91.20	321.30	8793.33	1300.07	833.05	-998.11	1300.08	309.85	.00