

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR
Minerals, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 1320 - Hobbs, New Mexico 88240

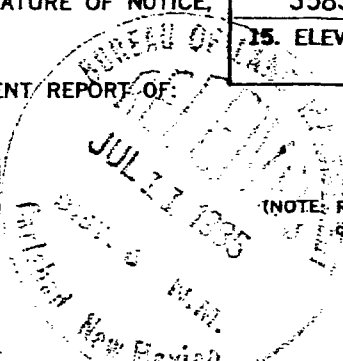
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1650' FNL & 1650' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:
TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
NM-033312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Government "A"

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Grama Ridge Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10, T22S, R34E, N.M.P.M.

12. COUNTY OR PARISH
Lea

13. STATE
NM

14. API NO.
3583 DF, 3585 KB

15. ELEVATIONS (SHOW DF, KDB, AND WD)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6/07/85 - 6/17/85 MIRU PU. Swab tstd storage zone interval 12,963 - 12,985'. TOH w/2 3/8" tbg, Model "D" stinger. Set Baker Model "G" RBP @ 12,800' & spotted 250 gal. 10% acetic. TOH. Schlumberger ran GR-CCL & perf. Morrow "X" zone 12,694 - 12,714 w/2 JSPF w/3 3/8" Ultra jet guns. Set Baker Model "C" Fullbore Retrievable PKR @ 12,380' & swabbed well in.

6/28/85 On sales to Llano, Inc. pipeline @ 7:00 PM w/400 MCFPD rate, LP-680 psig, FTP-2800 psig on 10/64" ck. Well unloading.

7/08/85 FTP-2075 psig, F920 MCF, 40 BO & 83 BWPD on 11/64" ck.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Michael TITLE Vice President DATE July 9, 1985

(This space for Federal or State office use)

APPROVED BY _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

JUL 12 1985

*See Instructions on Reverse Side

CARLSBAD, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12622 & 12908
Exhibit # E-9
Submitted By: Redrock Operating
Hearing Date: October 21 & 22, 2002

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐
well well

2. NAME OF OPERATOR
Llano, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 1320 - Hobbs, New Mexico 88241

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1650' FNL & 1650' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☒		☐
ABANDON*	☐		☐
(other)	☐		☐

5. LEASE

NM-033312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Grama Ridge Morrow

8. FARM OR LEASE NAME
GRM Unit

9. WELL NO.
5

10. FIELD OR WILDCAT NAME
Grama Ridge Morrow (Gas)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10, T22S, R34E N.M.P.M.

12. COUNTY OR PARISH
Lea

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3583 DF

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to temporarily abandon storage zone interval. (Perfs 12,985'-12,963'). *Isolate w/ packer - R.P.*

Propose to perf 12,695'-12,714' w/2 SPF in the Upper Morrow and evaluate for primary gas production.

RECEIVED

APR 29 1985

Subsurface Safety Valve: Manu. and Type

HOBBS, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED *A. J. Klaar* TITLE Vice President DATE April 12, 1985

(This space for Federal or State office use)

APPROVED BY *Mark Holden* TITLE DATE 5-16-85

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other Gas Storage Well

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1650' FNL & 1650' FWL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Well name change

5. LEASE NM-033312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Grama Ridge Morrow

8. FARM OR LEASE NAME

GRM Unit

9. WELL NO.

5

10. FIELD OR WILDCAT NAME

Grama Ridge Morrow (GAS)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 10, T22S, R34E N.M.P.M.

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3583 DF

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The United States Department of the Interior executed the Amendment to the Agreement for Subsurface Storage of Gas, Morrow Formation, Grama Ridge Area, Lea County, New Mexico, Agreement No. 14-08-0001-14277, which added Section 10, T22S, R34E, N.M.P.M., to the Agreement for Subsurface Storage of Gas. To conform with the unit designation, Llano, Inc. is changing the referenced well name from "Government A Well No. 1" to "GRM Unit Well No. 5".

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Vice President

DATE

April 13, 1984

ACCEPTED FOR RECORD

space for Federal or State office use)

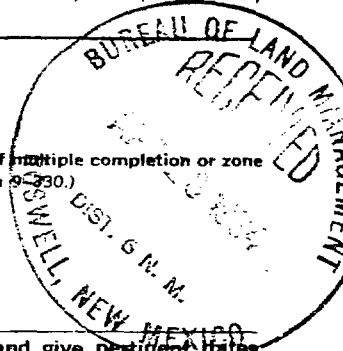
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

MAY 18 1984



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

NM-033312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government "A"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Grana Ridge-Morrow Gas

11. SEC., T., R., M., OR BLOCK AND SURVEY OF AREA

Section 10, T-22-S, R-3
NMPM Survey

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVL. ☐ Other _____

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 1900, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1650 FNL & 1650 FWL, Section 10, T-22-S, R-34-E

NMPM Survey

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12-9-65	3-7-66	3-16-66	3583 DF, 3585 KB	3569 GL

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
13,400	13,000		→	0-13,400	None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

12,958-12,963 Pennsylvanian - Morrow

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray-Sonic, Dual Induction-Laterolog, Proximity-Microlog

27. WAS WELL CORED

Yes, see attachment

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65#	388	22"	755 sks w/2% CaCl	None
10-3/4"	51#	5750	13-3/4"	800 sks thru shoe & 1170 sks thru DV tool @ 3845	None
7-5/8"	29.7 & 33.7#	11,920	9-5/8"	600 sks Trinity Inferno	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	11,745	13,400	375		2-3/8"		12,880

31. PERFORATION RECORD (Interval, size and number)

12,958-12,963 w/4 Jets/ft by Welex

(See reverse side for non-commercial perforations)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,958-12,963	No treatment

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
3-23-66		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-23-66	52	Various	→		CAOP 1675 MCF/D 1 bbl/MMCF		78.631
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1134 to 3213	psig PKR	→				49.6	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Cored intervals, DST's, and Deviation Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Hermin High

TITLE

Petroleum Engineer

DATE

4-12-66

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 85.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 88. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Scale Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Well perforated 13,039-13,048 & 13,053 to 13,062 by Schlumberger w/2 Regular & 2 Crack Jets per foot. This zone flowed 360 MCFTD & 202 BSWPD on 3/4" choke & TP 650#. Ran Model "D" latching plug & set into Model "D" @ 13,020. Set Baker Model "N" Bridge Plug @ 13,000 (PSTD).			

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Anhydrite	1692		(+1893)
Base Salt	3708		(-123)
Delaware Sand	5655		(-2070)
Bene Springs	8412		(-4827)
Wolfcamp	10,064		(-6479)
Strawn Ls	11,656		(-8071)
U. Morrow Sd	12,866		(-9281)
L. Morrow Sd	13,027		(-9442)

GOVERNMENT "A" NO. 1

WORKOVER CONSISTS OF ACIDIZING TO RESTORE PRODUCTION.

- 4-28-83 NOWSCO acidz w/5000 gals 7-1/2% HCL 65 quality foamed acid containing 4 gals NAI-161, 40# NIS-546, 5 gals NIS-547, 10 gals NMP-703, 10 gals NFA-341, 2 gals NCS-227, 1 gal NFR-42. Max press 8600 - broke back to 8100. Total pump time 33 mins. Avg inj press 8100, avg inj rate 5.2 BPM. Displaced w/2000 gal 2% KCL wtr & SI for 1 hr. ISIP 7000, 5 min SIP 5400, 10 min SIP 4800, 15 min SIP 4700. Well flowed back approx 50 BLW & died. 40 BLW to rec. SION.
- 4-29-83 Rig up Cobra swab unit. FL 2600' at beginning. Swab 0 BO & 26 BLW 6 hrs. FL 8600' at end. SION. 14 BLW to rec.
- 4-30-83 Swab 14 BLW 8 hrs. Swab dry. FL 8600' beginning, 12,000 at end, total load rec.
- 5-1-83 Swab 17 BW 7 hrs. Swab dry. FL 11,600 beginning, 12,200 at end. Rig down Cobra. Leave well open to pit.
- 5-2-83
5-3-83
5-4-83 Flowing minor gas amount to pit.
- 5-5-83 Flowing gas to sales line this AM, 5-5-83.
- 5-6-83 Flowing 18 MCF in 24 hrs. TPF 260.
- 5-10-83 FLW 36 MCF 24 hrs. to sales line. TPF 230.
- 5-11-83 Prep to frac Morrow.
- 5-12-83 Halliburton frac well as follows:
(1) Pump 1200 gal methanol & 800 gal CO₂ pre-pad at 9130 PSIG & 6.5 BPM.
(2) Pump 1500 gal gel & 1000 gal CO₂ pad at 9160 PSIG & 7.0 BPM.
(3) Pump 3000 gal gel & 2000 gal CO₂ containing 1#/gal 20/40 sand at 9100 PSIG & 7.0 BPM.
(4) Pump take-in of 1500 gal gel & 1000 gal CO₂ containing 1#/gal 20/40 Super-Prop.
(5) Flush w/2150 gal gel & CO₂. ISIP 5010 PSIG, 15 min SIP 4500 PSIG, AIR 7.0 BPM, max press 10,000 PSIG, avg inj press 9250 PSIG, total load 207 BLW. SI 2 hrs. Flow back 90% of load & died.
Leave open to pit overnight.
- 5-13-83 Lee Swab Svc swab 2 BO & 20 BLW in 8 hrs. FL 12,700. Leave open to pit overnight.
- 5-14-83 NOWSCO blew hole dry w/nitrogen. Leave open to pit overnight.
- 5-15-83
5-16-83 Flow minor amount of gas to pit.
- 5-17-83 Connected flowline to sales line. FINAL REPORT.

Government "A" No. 1
Morrow Treatments

- 11-20-82 Halliburton: acidz w/2000 gal. 7½% HCL containing 10 gals Pen-5, 2 gal HAI-50, and 2000 SCF/BBL N₂. Max press 7500- broke back to 7200. Ave inj press 7500, avg. inj. rate 1.8 BPM acid - 2.8 BPM acid + N₂ ISIP 7300. 5 min. SIP 6600, 10 min SIP 6300, 15 min SIP 6050.
- 12-2-82 Halliburton: acidz w/ 500 gal 35% HCL plus 3500 gal methanol alchol, containing 8 gal NE agent, 40 gal clay sta, 6 gal HAI-50. Plus 24 tons CO₂. Pump 50/50 acid - CO₂ mixture Max press 7600 - broke back to 6800, ave. inj. rate 4.6 BPM overall. ISIP 4600, 5 min SIP 4000, 10 min SIP 3300, 15 min SIP 3000.
- 4-28-83 NOWSCO: acidz w/5000 gals 7½% HCL 65 quality foamed acid containing 4 gals NAI-161, 40# NIS-546, 5 gals NIS-547, 10 gal's NMP-703, 10 gals NFA-341, 2 gals NCS-227, 1 gal NFR-42. Ma press 8600 - broke back to 3100. Avg inj press 8100, avg inj rate 5.2 BPM. Displaced w/2000 gal 2% KCL wtr & SI for 1 hr. ISIP 7000, 5 min SIP 5400, 10 min SIP 4800, 15 min SIP 4700.

This is an underground gas storage well in the Morrow. BHP is now 3450 PSIG. Barite fines have ruined permeability and flow capacity.

Run Date: 11/4/97
Published 8/97
(#250,025,22S34E10F00PM)

Last Production Date:	09/95
Cum. Thru L. P. Date Oil:	20,087
Cum. Thru L. P. Date Gas	2,779,197
Upper Perforation:	12,958
Lower Perforation:	12,963
Gas Gravity:	0.65
Liquid Gravity:	49.0
Temperature Gradient:	0.955
N-Factor:	1.000

Dwights

6400

Lease: GOVERNMENT A (1)

Retrieval Code: 250,025,22S34E10F00PM

11/04/97

7200

8

5600

6300

7

4800

5400

6

4000

4500

5

3200

3600

4

2400

2700

3

1600

1800

2

800

900

1

0

0

0

0 250 500 750 1000 1250 1500 1750 2000 2250 Gas(MMCF)

BHP/Z

County: LEA, NM

F.P. Date: N/A

WHFP

WHSIP

Field: GRAMA RIDGE (MORROW) PM

Oil Cum: 20.09 mbbbl

Reservoir: MORROW

Gas Cum: 2779 mmcf

Operator: APACHE ENERGY RES CORP

Location: 10F 22S 34E

Year	Oil Prod BBLs	Gas Prod MCF	Water BBLs	# of Wells	Days On	Allowables
1970	1,447	194,455		1	1	
1971	1,211	157,516		1	1	
1972	1,081	132,982		1	1	
1973	998	122,764		1	1	
1974	842	110,088	81	1	1	
1975	773	98,533	84	1	1	
1976	606	118,123	28	1	1	
1977	495	106,246	48	1	1	
1978	382	101,272	28	1	1	
1979	344	67,262		1	1	
1980	317	53,383		1	1	
1981	334	62,797		1	1	
1982	285	72,492		1	304	
1983	10	125,110		1	307	
1984		1,955		1	31	
1985	950	44,996	7,020	1	57	
1986	277	39,651	5,229	1	221	
1987	39	35,223	110	1	334	
1988	3	26,510	2	1	328	
1989	164	30,466	5,591	1	224	
1990	35	20,849	154	1	365	
1991	18	14,635		1	335	
1995	13	35,280	700		30	

Date MO/YR	Oil Prod BBS	BBS /Day	Cum. Oil Prod. BBS	Gas Prod MCF	Cum. Gas MCF	YIELD BBS/MMCF	Water	% Water	# of Wells	Days On	Allowables
01/70	127	4	9,590	16,527	1,023,136	7.68			1		
02/70	117	4	9,707	16,480	1,039,616	7.10			1		
03/70	147	5	9,854	17,623	1,057,239	8.34			1		
04/70	123	4	9,977	17,520	1,074,759	7.02			1		
05/70	125	4	10,102	17,175	1,091,934	7.28			1		
06/70	119	4	10,221	16,175	1,108,109	7.36			1		
07/70	123	4	10,344	16,754	1,124,863	7.34			1		
08/70	117	4	10,461	16,214	1,141,077	7.22			1		
09/70	112	4	10,573	15,371	1,156,448	7.29			1		
10/70	119	4	10,692	15,460	1,171,908	7.70			1		
11/70	89	3	10,781	15,127	1,187,035	5.88			1		
12/70	129	4	10,910	14,029	1,201,064	9.20			1		
Totals	1,447			194,455							
01/71	95	3	11,005	13,578	1,214,642	7.00			1		
02/71	100	3	11,105	12,706	1,227,348	7.87			1		
03/71	112	4	11,217	14,531	1,241,879	7.71			1		
04/71	109	4	11,326	13,671	1,255,550	7.97			1		
05/71	89	3	11,415	13,522	1,269,072	6.58			1		
06/71	121	4	11,536	13,007	1,282,079	9.30			1		
07/71	107	4	11,643	13,666	1,295,745	7.83			1		
08/71	97	3	11,740	12,702	1,308,447	7.64			1		
09/71	95	3	11,835	13,530	1,321,977	7.02			1		
10/71	103	3	11,938	12,895	1,334,872	7.99			1		
11/71	83	3	12,021	12,612	1,347,484	6.58			1		
12/71	100	3	12,121	11,096	1,358,580	9.01			1		
Totals	1,211			157,516							
01/72	101	3	12,222	13,011	1,371,591	7.76			1		
02/72	88	3	12,310	11,437	1,383,028	7.69			1		
03/72	100	3	12,410	12,048	1,395,076	8.30			1		
04/72	91	3	12,501	10,705	1,405,781	8.50			1		
05/72	104	3	12,605	10,845	1,416,626	9.59			1		
06/72	82	3	12,687	10,016	1,426,642	8.19			1		
07/72	94	3	12,781	11,237	1,437,879	8.37			1		
08/72	72	2	12,853	11,133	1,449,012	6.47			1		
09/72	95	3	12,948	11,290	1,460,302	8.41			1		
10/72	79	3	13,027	10,255	1,470,557	7.70			1		
11/72	94	3	13,121	11,111	1,481,668	8.46			1		
12/72	81	3	13,202	9,894	1,491,562	8.19			1		
Totals	1,081			132,982							
01/73	67	2	13,269	11,326	1,502,888	5.92			1		
02/73	65	2	13,334	9,729	1,512,617	6.68			1		
03/73	85	3	13,419	10,834	1,523,451	7.85			1		
04/73	81	3	13,500	10,073	1,533,524	8.04			1		
05/73	95	3	13,595	10,248	1,543,772	9.27			1		
06/73	90	3	13,685	10,035	1,553,807	8.97			1		

Date	Oil Prod MO/YR	Oil Prod BBLs	BBLs /Day	Cum. Oil Prod. BBLs	Gas Prod MCF	Cum. Gas MCF	YIELD BBLs/MMCF	Water	% Water	# of Wells	Days On	Allowables
07/73		92	3	13,777	10,802	1,564,609	8.52			1		
08/73		84	3	13,861	10,304	1,574,913	8.15			1		
09/73		83	3	13,944	9,685	1,584,598	8.57			1		
10/73		87	3	14,031	9,231	1,593,829	9.42			1		
11/73		87	3	14,118	10,571	1,604,400	8.23			1		
12/73		82	3	14,200	9,926	1,614,326	8.26			1		
Totals		998			122,764							
01/74		67	2	14,267	10,211	1,624,537	6.56	7	9.46	1		
02/74		72	2	14,339	9,024	1,633,561	7.98	7	8.86	1		
03/74		98	3	14,437	9,371	1,642,932	10.46	7	6.67	1		
04/74		66	2	14,503	8,887	1,651,819	7.43	7	9.59	1		
05/74		75	2	14,578	8,898	1,660,717	8.43	7	8.54	1		
06/74		68	2	14,646	9,110	1,669,827	7.46	7	9.33	1		
07/74		67	2	14,713	9,159	1,678,986	7.32	7	9.46	1		
08/74		87	3	14,800	8,837	1,687,823	9.84	7	7.45	1		
09/74		60	2	14,860	8,738	1,696,561	6.87	7	10.45	1		
10/74		42	1	14,902	9,342	1,705,903	4.50	7	14.29	1		
11/74		72	2	14,974	9,639	1,715,542	7.47	4	5.26	1		
12/74		68	2	15,042	8,872	1,724,414	7.66	7	9.33	1		
Totals		842			110,088			81				
01/75		33	1	15,075	5,631	1,730,045	5.86	7	17.50	1		
02/75		76	3	15,151	8,995	1,739,040	8.45	7	8.43	1		
03/75		65	2	15,216	9,570	1,748,610	6.79	7	9.72	1		
04/75		75	2	15,291	8,030	1,756,640	9.34	7	8.54	1		
05/75		68	2	15,359	8,210	1,764,850	8.28	7	9.33	1		
06/75		68	2	15,427	7,535	1,772,385	9.02	7	9.33	1		
07/75		61	2	15,488	8,337	1,780,722	7.32	7	10.29	1		
08/75		66	2	15,554	8,340	1,789,062	7.91	7	9.59	1		
09/75		69	2	15,623	7,715	1,796,777	8.94	7	9.21	1		
10/75		65	2	15,688	7,420	1,804,197	8.76	7	9.72	1		
11/75		70	2	15,758	9,125	1,813,322	7.67	7	9.09	1		
12/75		57	2	15,815	9,625	1,822,947	5.92	7	10.94	1		
Totals		773			98,533			84				
01/76		61	2	15,876	10,821	1,833,768	5.64	7	10.29	1		
02/76		48	2	15,924	9,517	1,843,285	5.04	7	12.73	1		
03/76		59	2	15,983	9,980	1,853,265	5.91	7	10.61	1		
04/76		53	2	16,036	9,266	1,862,531	5.72	0	0.00	1		
05/76		64	2	16,100	9,406	1,871,937	6.80	0	0.00	1		
06/76		48	2	16,148	13,350	1,885,287	3.60	0	0.00	1		
07/76		50	2	16,198	9,723	1,895,010	5.14	0	0.00	1		
08/76		47	2	16,245	9,643	1,904,653	4.87	0	0.00	1		
09/76		42	1	16,287	9,173	1,913,826	4.58	0	0.00	1		
10/76		54	2	16,341	8,888	1,922,714	6.08	0	0.00	1		
11/76		45	1	16,386	9,472	1,932,186	4.75	0	0.00	1		
12/76		35	1	16,421	8,884	1,941,070	3.94	7	16.67	1		

Date MO/YR	Oil Prod BBLs	BBLs /Day	Cum. Oil Prod. BBLs	Gas Prod MCF	Cum. Gas MCF	YIELD BBLs/MMCF	Water	% Water	# of Wells	Days On	Allowables
Totals	606			118,123			28				
01/77	35	1	16,456	10,189	1,951,259	3.44	7	16.67	1		
02/77	30	1	16,486	8,879	1,960,138	3.38	6	16.67	1		
03/77	34	1	16,520	9,063	1,969,201	3.75	0	0.00	1		
04/77	50	2	16,570	8,164	1,977,365	6.12	0	0.00	1		
05/77	48	2	16,618	8,212	1,985,577	5.85	0	0.00	1		
06/77	36	1	16,654	7,693	1,993,270	4.68	7	16.28	1		
07/77	49	2	16,703	8,721	2,001,991	5.62	7	12.50	1		
08/77	38	1	16,741	7,790	2,009,781	4.88	7	15.56	1		
09/77	39	1	16,780	8,798	2,018,579	4.43	0	0.00	1		
10/77	41	1	16,821	9,698	2,028,277	4.23	0	0.00	1		
11/77	47	2	16,868	9,392	2,037,669	5.00	7	12.96	1		
12/77	48	2	16,916	9,647	2,047,316	4.98	7	12.73	1		
Totals	495			106,246			48				
01/78	33	1	16,949	8,492	2,055,808	3.89	0	0.00	1		
02/78	40	1	16,989	9,199	2,065,007	4.35	7	14.89	1		
03/78	38	1	17,027	9,759	2,074,766	3.89	7	15.56	1		
04/78	35	1	17,062	9,128	2,083,894	3.83	7	16.67	1		
05/78	21	1	17,083	9,348	2,093,242	2.25	7	25.00	1		
06/78	33	1	17,116	8,750	2,101,992	3.77	0	0.00	1		
07/78	35	1	17,151	9,596	2,111,588	3.65	0	0.00	1		
08/78	41	1	17,192	10,009	2,121,597	4.10	0	0.00	1		
09/78	26	1	17,218	6,010	2,127,607	4.33	0	0.00	1		
10/78	9	0	17,227	2,098	2,129,705	4.29	0	0.00	1		
11/78	38	1	17,265	9,956	2,139,661	3.82	0	0.00	1		
12/78	33	1	17,298	8,927	2,148,588	3.70	0	0.00	1		
Totals	382			101,272			28				
01/79	33	1	17,331	8,038	2,156,626	4.11			1		
02/79	34	1	17,365	6,945	2,163,571	4.90			1		
03/79	26	1	17,391	4,108	2,167,679	6.33			1		
04/79	37	1	17,428	5,936	2,173,615	6.23			1		
05/79	35	1	17,463	5,819	2,179,434	6.01			1		
06/79	35	1	17,498	5,844	2,185,278	5.99			1		
07/79	26	1	17,524	5,513	2,190,791	4.72			1		
08/79	29	1	17,553	5,207	2,195,998	5.57			1		
09/79	25	1	17,578	5,230	2,201,228	4.78			1		
10/79	17	1	17,595	4,710	2,205,938	3.61			1		
11/79	20	1	17,615	4,318	2,210,256	4.63			1		
12/79	27	1	17,642	5,594	2,215,850	4.83			1		
Totals	344			67,262							
01/80	33	1	17,675	5,051	2,220,901	6.53			1		
02/80	35	1	17,710	5,437	2,226,338	6.44			1		
03/80	28	1	17,738	5,855	2,232,193	4.78			1		
04/80	36	1	17,774	5,116	2,237,309	7.04			1		

Date MO/YR	Oil Prod BBLs	BBLs /Day	Cum. Oil Prod. BBLs	Gas Prod MCF	Cum. Gas MCF	YIELD BBLs/MMCF	Water	% Water	# of Wells	Days On	Allowables
05/80	30	1	17,804	5,125	2,242,434	5.85			1		
06/80	25	1	17,829	4,509	2,246,943	5.54			1		
07/80	25	1	17,854	4,245	2,251,188	5.89			1		
08/80	0	0	17,854	0	2,251,188				0		
09/80	24	1	17,878	4,112	2,255,300	5.84			1		
10/80	27	1	17,905	4,647	2,259,947	5.81			1		
11/80	25	1	17,930	4,050	2,263,997	6.17			1		
12/80	29	1	17,959	5,236	2,269,233	5.54			1		
Totals	317			53,383							
01/81	31	1	17,990	4,716	2,273,949	6.57			1		
02/81	25	1	18,015	4,393	2,278,342	5.69			1		
03/81	24	1	18,039	4,661	2,283,003	5.15			1		
04/81	27	1	18,066	5,199	2,288,202	5.19			1		
05/81	30	1	18,096	5,157	2,293,359	5.82			1		
06/81	24	1	18,120	4,586	2,297,945	5.23			1		
07/81	21	1	18,141	3,843	2,301,788	5.46			1		
08/81	25	1	18,166	4,358	2,306,146	5.74			1		
09/81	22	1	18,188	3,793	2,309,939	5.80			1		
10/81	32	1	18,220	6,533	2,316,472	4.90			1		
11/81	40	1	18,260	7,699	2,324,171	5.20			1		
12/81	33	1	18,293	7,859	2,332,030	4.20			1		
Totals	334			62,797							
01/82	35	1	18,328	8,654	2,340,684	4.04			1	31	
02/82	33	1	18,361	8,343	2,349,027	3.96			1	28	
03/82	36	1	18,397	9,133	2,358,160	3.94			1	31	
04/82	26	0	18,423	7,651	2,365,811	3.40			1	30	
05/82	30	0	18,453	8,403	2,374,214	3.57			1	31	
06/82	28	0	18,481	7,372	2,381,586	3.80			1	30	
07/82	35	1	18,516	6,278	2,387,864	5.58			1	31	
08/82	27	0	18,543	6,804	2,394,668	3.97			1	31	
09/82	23	0	18,566	6,204	2,400,872	3.71			1	30	
10/82	12	0	18,578	3,650	2,404,522	3.29			1	31	
11/82	0	0	18,578	0	2,404,522				0	0	
12/82	0	0	18,578	0	2,404,522				0	0	
Totals	285			72,492						304	
01/83	0	0	18,578	0	2,404,522				0	0	
02/83	0	0	18,578	8	2,404,530	0.00			1	1	
03/83	10	0	18,588	637	2,405,167	15.70			1	31	
04/83	0	0	18,588	1,098	2,406,265	0.00			1	30	
05/83	0	0	18,588	257	2,406,522	0.00			1	31	
06/83	0	0	18,588	4,430	2,410,952	0.00			1	30	
07/83	0	0	18,588	21,011	2,431,963	0.00			1	31	
08/83	0	0	18,588	23,265	2,455,228	0.00			1	31	
09/83	0	0	18,588	22,736	2,477,964	0.00			1	30	
10/83	0	0	18,588	23,334	2,501,298	0.00			1	31	

Date MO/YR	Oil Prod BBLs	BBLs /Day	Cum. Oil Prod. BBLs	Gas Prod MCF	Cum. Gas MCF	YIELD BBLs/MMCF	Water	% Water	# of Wells	Days On	Allowables
11/83	0	0	18,588	19,536	2,520,834	0.00	0.00		1	30	
12/83	0	0	18,588	8,798	2,529,632	0.00	0.00		1	31	
Totals	10			125,110						307	
01/84				1,946	2,531,578	0.00			1	31	
02/84				9	2,531,587	0.00			1	0	
03/84				0	2,531,587				0	0	
04/84				0	2,531,587				0	0	
05/84				0	2,531,587				0	0	
06/84				0	2,531,587				0	0	
07/84				0	2,531,587				0	0	
08/84				0	2,531,587				0	0	
09/84				0	2,531,587				0	0	
10/84				0	2,531,587				0	0	
11/84				0	2,531,587				0	0	
12/84				0	2,531,587				0	0	
Totals				1,955						31	
01/85	0	0	18,588	0	2,531,587		0		0	0	
02/85	0	0	18,588	0	2,531,587		0		0	0	
03/85	0	0	18,588	0	2,531,587		0		0	0	
04/85	0	0	18,588	0	2,531,587		0		0	0	
05/85	0	0	18,588	0	2,531,587		0		0	0	
06/85	31	5	18,619	1,986	2,533,573	15.61	0	0.00	1	6	
07/85	594	19	19,213	25,716	2,559,289	23.10	3,349	84.94	1	31	
08/85	308	51	19,521	15,478	2,574,767	19.90	3,671	92.26	1	6	
09/85	9	0	19,530	106	2,574,873	84.91	0	0.00	1	0	
10/85	0	0	19,530	972	2,575,845	0.00	0		1	0	
11/85	8	0	19,538	376	2,576,221	21.28	0	0.00	1	14	
12/85	0	0	19,538	362	2,576,583	0.00	0		1	0	
Totals	950			44,996			7,020			57	
01/86	8	8	19,546	107	2,576,690	74.77	172	95.56	1	1	
02/86	0	0	19,546	402	2,577,092	0.00	0		1	8	
03/86	0	0	19,546	303	2,577,395	0.00	0		1	0	
04/86	0	0	19,546	1,653	2,579,048	0.00	186	100.00	1	0	
05/86	0	0	19,546	1,926	2,580,974	0.00	155	100.00	1	0	
06/86	0	0	19,546	2,188	2,583,162	0.00	321	100.00	1	30	
07/86	0	0	19,546	3,479	2,586,641	0.00	717	100.00	1	31	
08/86	126	4	19,672	9,588	2,596,229	13.14	1,789	93.42	1	31	
09/86	98	3	19,770	8,619	2,604,848	11.37	1,270	92.84	1	30	
10/86	32	1	19,802	4,829	2,609,477	6.91	427	93.03	1	30	
11/86	13	0	19,815	3,301	2,612,778	3.94	147	91.88	1	29	
12/86	0	0	19,815	3,456	2,616,234	0.00	45	100.00	1	31	
Totals	277			39,651			5,229			221	
01/87	4	0	19,819	3,561	2,619,795	1.12	48	92.31	1	0	
02/87	3	0	19,822	3,010	2,622,805	1.00	0	0.00	1	28	

Date	Oil Prod	BBSL	Cum. Oil	Gas Prod	Cum. Gas	YIELD	Water	%	# of	Days	Allowables
MO/YR	BBSL	/Day	Prod. BBSL	MCF	MCF	BBSL/MMCF	Water	Water	Wells	On	
03/87	2	0	19,824	3,310	2,626,115	0.60	3	60.00	1	31	
04/87	8	0	19,832	3,048	2,629,163	2.62	0	0.00	1	30	
05/87	13	0	19,845	3,107	2,632,270	4.18	3	18.75	1	31	
06/87	7	0	19,852	2,942	2,635,212	2.38	9	56.25	1	30	
07/87	0	0	19,852	2,902	2,638,114	0.00	6	100.00	1	31	
08/87	2	0	19,854	2,822	2,640,936	0.71	3	60.00	1	31	
09/87	0	0	19,854	2,701	2,643,637	0.00	6	100.00	1	30	
10/87	0	0	19,854	2,719	2,646,356	0.00	11	100.00	1	31	
11/87	0	0	19,854	2,487	2,648,843	0.00	7	100.00	1	30	
12/87	0	0	19,854	2,614	2,651,457	0.00	14	100.00	1	31	
Totals	39			35,223			110			334	
01/88	0	0	19,854	2,489	2,653,946	0.00	2	100.00	1	31	
02/88	0	0	19,854	2,380	2,656,326	0.00	0		1	29	
03/88	0	0	19,854	2,458	2,658,784	0.00	0		1	31	
04/88	0	0	19,854	2,344	2,661,128	0.00	0		1	30	
05/88	3	0	19,857	2,392	2,663,520	1.25	0	0.00	1	31	
06/88	0	0	19,857	2,255	2,665,775	0.00	0		1	30	
07/88	0	0	19,857	2,295	2,668,070	0.00	0		1	31	
08/88	0	0	19,857	2,189	2,670,259	0.00	0		1	31	
09/88	0	0	19,857	2,063	2,672,322	0.00	0		1	30	
10/88	0	0	19,857	2,075	2,674,397	0.00	0		1	0	
11/88	0	0	19,857	1,999	2,676,396	0.00	0		1	30	
12/88	0	0	19,857	1,571	2,677,967	0.00	0		1	24	
Totals	3			26,510			2			328	
01/89	10	0	19,867	1,386	2,679,353	7.22	327	97.03	1	26	
02/89	2	0	19,869	0	2,679,353		960	99.79	1	0	
03/89	0	0	19,869	1,987	2,681,340	0.00	822	100.00	1	19	
04/89	0	0	19,869	2,902	2,684,242	0.00	255	100.00	1	0	
05/89	0	0	19,869	2,152	2,686,394	0.00	249	100.00	1	30	
06/89	0	0	19,869	0	2,686,394		0		0	0	
07/89	18	0	19,887	2,137	2,688,531	8.42	351	95.12	1	27	
08/89	39	1	19,926	3,831	2,692,362	10.18	654	94.37	1	30	
09/89	35	1	19,961	4,504	2,696,866	7.77	686	95.15	1	30	
10/89	31	1	19,992	5,162	2,702,028	6.01	638	95.37	1	31	
11/89	18	1	20,010	3,436	2,705,464	5.24	396	95.65	1	0	
12/89	11	0	20,021	2,969	2,708,433	3.70	253	95.83	1	31	
Totals	164			30,466			5,591			224	
01/90	2	0	20,023	2,175	2,710,608	0.92	33	94.29	1	31	
02/90	0	0	20,023	1,689	2,712,297	0.00	7	100.00	1	28	
03/90	0	0	20,023	2,092	2,714,389	0.00	15	100.00	1	31	
04/90	6	0	20,029	1,829	2,716,218	3.28	9	60.00	1	30	
05/90	7	0	20,036	1,803	2,718,021	3.88	3	30.00	1	31	
06/90	7	0	20,043	1,645	2,719,666	4.26	0	0.00	1	30	
07/90	0	0	20,043	1,704	2,721,370	0.00	3	100.00	1	31	
08/90	3	0	20,046	1,899	2,723,269	1.58	0	0.00	1	31	

Date	Oil Prod	BBS	Cum. Oil	Gas Prod	Cum. Gas	YIELD	Water	%	# of	Days	Allowables
MO/YR	BBS	/Day	Prod. BBS	MCF	MCF	BBS/MMCF		Water	Wells	On	
09/90	10	0	20,056	1,515	2,724,784	6.60	0	0.00	1	30	
10/90	0	0	20,056	1,441	2,726,225	0.00	63	100.00	1	31	
11/90	0	0	20,056	1,698	2,727,923	0.00	21	100.00	1	30	
12/90	0	0	20,056	1,359	2,729,282	0.00	0		1	31	
Totals	35			20,849			154			365	
01/91	5	0	20,061	686	2,729,968	7.29			1	31	
02/91	13	0	20,074	595	2,730,563	21.85			1	28	
03/91	0	0	20,074	760	2,731,323	0.00			1	31	
04/91	0	0	20,074	1,465	2,732,788	0.00			1	30	
05/91	0	0	20,074	1,652	2,734,440	0.00			1	31	
06/91	0	0	20,074	1,607	2,736,047	0.00			1	30	
07/91	0	0	20,074	1,647	2,737,694	0.00			1	31	
08/91	0	0	20,074	1,639	2,739,333	0.00			1	31	
09/91	0	0	20,074	1,577	2,740,910	0.00			1	0	
10/91	0	0	20,074	1,626	2,742,536	0.00			1	31	
11/91	0	0	20,074	1,364	2,743,900	0.00			1	30	
12/91	0	0	20,074	17	2,743,917	0.00			1	31	
Totals	18			14,635						335	
01/95	0	0	20,074	0	2,743,917		0			0	
02/95	0	0	20,074	0	2,743,917		0			0	
03/95	0	0	20,074	0	2,743,917		0			0	
04/95	0	0	20,074	0	2,743,917		0			0	
05/95	0	0	20,074	0	2,743,917		0			0	
06/95	0	0	20,074	0	2,743,917		0			0	
07/95	0	0	20,074	0	2,743,917		0			0	
08/95	0	0	20,074	0	2,743,917		0			0	
09/95	13	0	20,087	35,280	2,779,197	0.37	700	98.18		30	
10/95	0	0	20,087	0	2,779,197		0			0	
11/95	0	0	20,087	0	2,779,197		0			0	
12/95	0	0	20,087	0	2,779,197		0			0	
Totals	13			35,280			700			30	

Apl Number	Well Number	Well Type	Latitude	Longitude	Lat/Long Source	Dwights Well ID
30-025-2133400	4 1	GAS				S1345430