

OIL CONSERVATION DIVISION
P. O. Box 2088
SANTA FE, NEW MEXICO
87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER

NFL 26

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

I.
Operator Sun Oil Company Well Name and No. J. A. Akens Well No. 11
Location: Unit R Sec. 3 Twp. 21S Rng. 36E Cty. Lea

II.

THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.
- (2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is completed in the Oil Center-Blinebry Pool, and the standard spacing unit in said pool is 80 acres.
- (4) That a 80 -acre proration unit comprising the W/2 SE/4 of Sec. 3, Twp. 21S, Rng. 36E, is currently dedicated to the J. A. Akens Well No. 8 located in Unit W of said section.
- (5) That this proration unit is (☒) standard (☐) nonstandard; if nonstandard, said unit was previously approved by Order No. _____.
- (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- (7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 282,454 MCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this 9th day of April, 19 81.


DIVISION DIRECTOR

EXAMINER

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. Box 2088
SANTA FE, NEW MEXICO
87501

ADMINISTRATIVE ORDER

NFL 26

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

I.

Operator Sun Oil Company Well Name and No. JFA Atkins Well No 11
Location: Unit R Sec. 3 Twp. 21 S Rng. 36 E Cty. Lea

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.

(2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is to be completed in the Oil Center-Blindery Pool, and the standard spacing unit in said pool is eighty acres.

(4) That a eighty-acre proration unit comprising the W1/2 SE1/4 of Sec. 3, Twp. 21 S, Rng. 36 E, is currently dedicated to the JFA Atkins Well No 8 located in Unit W of said section.

(5) That this proration unit is (X) standard () nonstandard; if nonstandard, said unit was previously approved by Order No. _____.

(6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 282,454 MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this _____ day of _____, 19____.

DIVISION DIRECTOR _____ EXAMINER _____

KELLAHIN and KELLAHIN

Attorneys at Law

500 Don Gaspar Avenue

Post Office Box 1769

Santa Fe, New Mexico 87501

Jason Kellahin
W. Thomas Kellahin
Karen Aubrey

Telephone 982-4285
Area Code 505

April 6, 1981

Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87503

ATTENTION: Richard L. Stamets

RE: Sec. 103 Determination NGPA
J. A. Akens Well No. 11
Oil Center Blinbry Pool
Lea County, New Mexico

Dear Dick:

Please process this application on behalf of Sun Oil Company pursuant to Order R-6013-A for administrative approval of Section 103 NGPA Determination for this well. We are enclosing the following exhibits in duplicate.

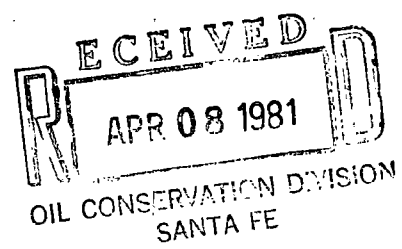
1. Copy of approved Form C-101 and Form C-102.
2. Structure Contour map and Stratigraphic Cross Section with explanation.
3. Formula regarding increased ultimate recovery from Well No. 11.
4. Production Graph and Summary Well No. 8.
5. Production Graph and Summary Well No. 11.

If additional information is desired, please advise.

Yours very truly,


W. Thomas Kellahin

WTK:jm
Enclosures



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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

**Original
File Copy**

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			7. Unit Agreement Name
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. Firm or Lease Name Akens, J. A.
c. Name of Operator Sun Oil Company			9. Well No. 11
d. Address of Operator P. O. Box 1861 Midland, Texas 79702			10. Field and Pool, or Wildcat Oil Center - Blinebry
e. Location of Well UNIT LETTER <u>XR</u> LOCATED <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>2164</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>3</u> TWP. <u>21S</u> RGE. <u>36E</u> NADIM			12. County Lea
19. Proposed Depth 6300'			19A. Formation Blinebry
20. Rotary or C.T. Rotary			21. Elevations (Show whether DF, RT, etc.) 3551.3' GL
21A. Kind & Status Plug. Bond on file			21B. Drilling Contractor unknown
22. Approx. Date Work will start upon approval			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8-5/8"	24#	1300'	600	Surf.
7-7/8"	5-1/2"	14 & 15.5#	6300'	1080	1200'
		DV Tool	3900'		

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROD. ZONE. GIVE OILGROUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Doris Williams Title Accounting Assistant Date March 17, 1980

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT I DATE MAR 20 1980

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Supersedes C-128
Effective 1-1-65

Operator Sun Oil Co.			Lessee J.A. Akens		Well No. 11
Tract Letter + R	Section 3	Range 21 South	Row 36 East	County Lea	

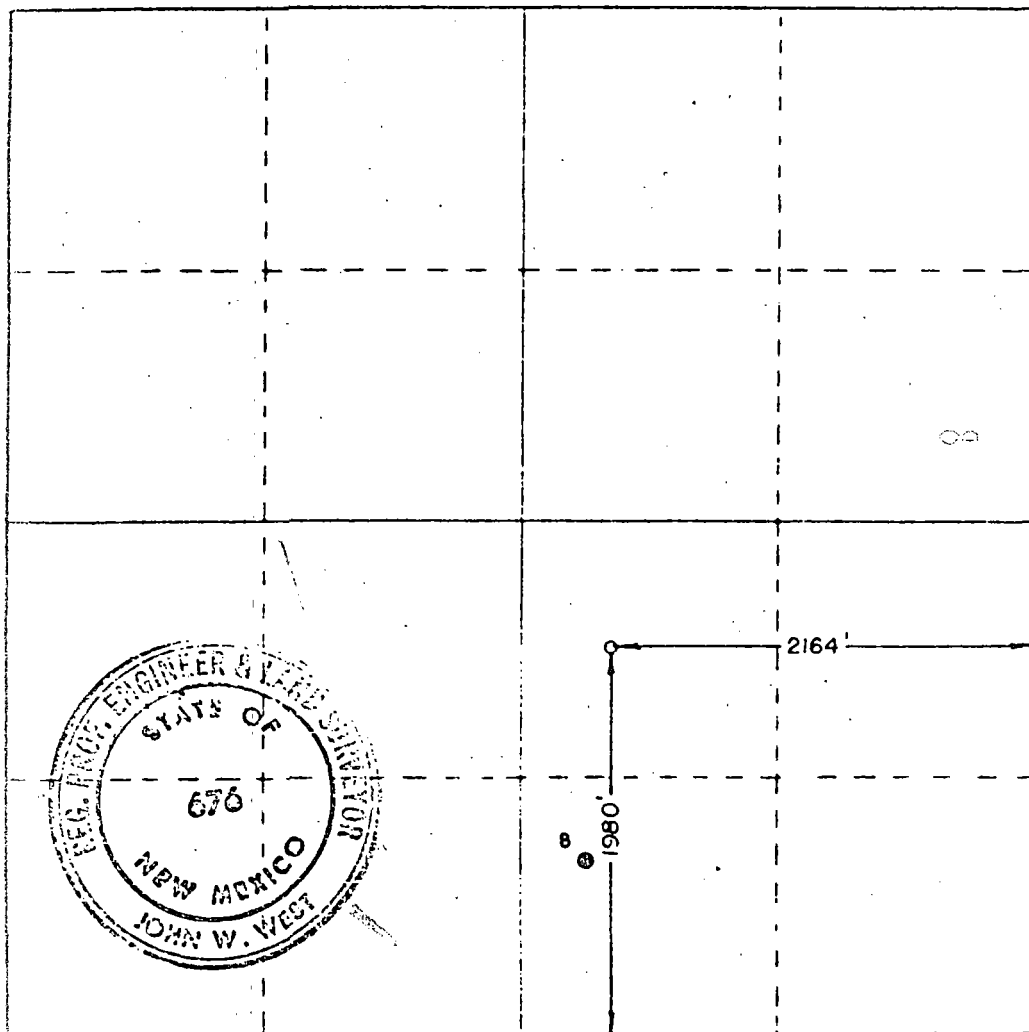
Acreage Location of Well:					
1980	feet from the South	line and 2164	feet from the East	line	
Ground Level Elev. 3551.3	Producing Formation Blinebry	Pool Oil Center - Blinebry	Dedicated Acreage: 80		Acreage

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Doris Williams
Name

Accounting Assistant
Position

Sun Oil Company
Company

March 17, 1980
Date

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 knowledge and belief.

March 5, 1980
Date of Survey

Registered Professional Engineer
Title of Surveyor

John W. West
JOHN W. WEST 676
PATRICK A. ROMERO 6868
Ronald J. Edson 3239

330 640 950 1260 1570 1880 2190 2500 2810 3120 3430 3740 4050 4360 4670 4980 5290 5600 5910 6220 6530 6840 7150 7460 7770 8080 8390 8700 9010 9320 9630 9940 10250 10560 10870 11180 11490 11800 12110 12420 12730 13040 13350 13660 13970 14280 14590 14900 15210 15520 15830 16140 16450 16760 17070 17380 17690 18000 18310 18620 18930 19240 19550 19860 20170 20480 20790 21100 21410 21720 22030 22340 22650 22960 23270 23580 23890 24200 24510 24820 25130 25440 25750 26060 26370 26680 26990 27300 27610 27920 28230 28540 28850 29160 29470 29780 30090 30400 30710 31020 31330 31640 31950 32260 32570 32880 33190 33500 33810 34120 34430 34740 35050 35360 35670 35980 36290 36600 36910 37220 37530 37840 38150 38460 38770 39080 39390 39700 40010 40320 40630 40940 41250 41560 41870 42180 42490 42800 43110 43420 43730 44040 44350 44660 44970 45280 45590 45900 46210 46520 46830 47140 47450 47760 48070 48380 48690 49000 49310 49620 49930 50240 50550 50860 51170 51480 51790 52100 52410 52720 53030 53340 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325940 326250 326560 326870 327180 327490 327800 328110 328420 328730 329040 329350 329660 329970 330280 330590 330900 331210 331520 331830 332140 332450 332760 333070 333380 333690 334000 334310 334620 334930 335240 335550 335860 336170 336480 336790 337100 337410 337720 338030 338340 338650 338960 339270 339580 339890 340200 340510 340820 341130 341440 341750 342060 342370 342680 342990 343300 343610 343920 344230 344540 344850 345160 345470 345780 346090 346400 346710 347020 347330 347640 347950 348260 348570 348880 349190 349500 349810 350120 350430 350740 351050 351360 351670 351980 352290 352600 352910 353220 353530 353840 354150 354460 354770 355080 355390 355700 356010 356320 356630 356940 357250 357560 357870 358180 358490 358800 359110 359420 359730 360040 360350 360660 360970 361280 361590 361900 362210 362520 362830 363140 363450 363760 364070 364380 364690 365000 365310 365620 365930 366240 366550 366860 367170 367480 367790 368100 368410 368720 369030 369340 369650 369960 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414600 414910 415220 415530 415840 416150 416460 416770 417080 417390 417700 418010 418320 418630 418940 419250 419560 419870 420180 420490 420800 421110 421420 421730 422040 422350 422660 422970 423280 423590 423900 424210 424520 424830 425140 425450 425760 426070 426380 426690 427000 427310 427620 427930 428240 428550 428860 429170 429480 429790 430100 430410 430720 431030 431340 431650 431960 432270 432580 432890 433200 433510 433820 434130 434440 434750 435060 435370 435680 435990 436300 436610 436920 437230 437540 437850 438160 438470 438780 439090 439400 439710 440020 440330 440640 440950 441260 441570 441880 442190 442500 442810 443120 443430 443740 444050 444360 444670 444980 445290 445600 445910 446220 446530 446840 447150 447460 447770 448080 448390 448700 449010 449320 449630 449940 450250 450560 450870 451180 451490 451800 452110 452420 452730 453040 453350 453660 453970 454280 454590 454900 455210 455520 455830 456140 456450 456760 457070 457380 457690 458000 458310 458620 458930 459240 459550 459860 460170 460480 460790 461100 461410 461720 462030 462340 462650 462960 463270 463580 463890 464200 464510 464820 465130 465440 465750 466060 466370 466680 466990 467300 467610 467920 468230 468540 468850 469160 469470 469780 470090 470400 470710 471020 471330 471640 471950 472260 472570 472880 473190 473500 473810 474120 474430 474740 475050 475360 475670 475980 476290 476600 476910 477220 477530 477840 478150 478460 478770 479080 479390 479700 480010 480320 480630 480940 481250 481560 481870 482180 482490 482800 483110 483420 483730 484040 484350 484660 484970 485280 485590 485900 486210 486520 486830 487140 487450 487760 488070 488380 488690 489000 489310 489620

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

JUL 15 1980

Form C-103
Revised 10-1-78

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LAND OFFICE	
OPERATOR	

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 "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐

Name of Operator

Sun Oil Company

Address of Operator

P. O. Box 1861 Midland, Texas 79702

Location of Well

UNIT LETTER R 1980 FEET FROM THE South LINE AND 2164 FEET FROM
THE East LINE, SECTION 3 TOWNSHIP 21S RANGE 36E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
3551.3' GL

3a. Indicate Type of Lease

State ☐

Fee ☒

5. State Oil & Gas Lease No.

7. Unit Agreement Date

8. Farm or Lease Name

9. Well No.

Akens, J. A. #11

10. Field and Pool, or Wildcat

Oil Center - Blinbry

12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

APPROPRIATE REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

ILL OR ALTER CASING ☐

OTHER ☐

PLUG AND ABANDON ☐

3 - - -

CHANGE PLANS ☐

OTHER ☐

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOB ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☐

OTHER ☐

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

-28-80 MIRU Hillin

-29-80 Spud 11 PM

-31-80 Ran 8-5/8" 24# csg @ 1290'. Cmdt w/400 sx Howco Lite.
200 sx Class "C" 2% CaCl2 1/4# FCL. Circ. 100 sx.

-16-80 Ran 5-1/2" 14 & 15.5# csg @ 6300'. Howco cmdt. 1 stage w/600 sx "H" 50-50 Poz "A" w/2% gel, 5# salt, 0.5% CFR-2. Cmdt 2nd stage w/1250 sx Howco Lite w/15-1/2# salt, 3# Gilson 1/4# FCL. 100 sx Class "C" 3# salt. Circ 75 sx cmt to surface.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Teresa Bradley

TITLE Accounting Assistant

DATE 7-14-80

APPROVED BY

TITLE

DATE

NOTATIONS OF APPROVAL, IF ANY

J. A. Akens #11 N.G.P.A.
EXHIBIT #1

Exhibit #1 is composed of a structure contour map on the top of the Blinebry Formation and a Stratigraphic cross section through the Blinebry interval of the two wells on the 80 acre proration unit.

The scale of the structure map is 1"=100' and the contour interval is 25'. Sun's J. A. Akens lease is outlined in yellow and the completed zones of the wells are color coded as per the legend in the lower left hand corner. The subject well is indicated with a red arrow and the 80 acre proration unit is outlined with hashures. J. A. Akens #11 is 7' structurally high to the J. A. Akens #8.

The vertical scale of the cross section is 1"= 100' and there is no horizontal scale. Porosity zones are colored red. There is approximately 43' of porosity that is not common to both wells. As a result of this, there is partial lack of reservoir continuity and it appears that the previously existing well (#8) would not effectively and efficiently drain the portion of the reservoir covered by the proration unit.

SUN OIL COMPANY
J.A. AKENS NO. 11
OIL CENTER - BLINEBRY POOL
LEA COUNTY, NEW MEXICO

Spud Date: July 28, 1980
Completion Date: September 13, 1980

Well Test (January 6, 1981)

16 BBL Oil Per Day
12 BBL Water Per Day
59 MCF Gas Per Day

The J. A. Akens No. 8, the older well on the proration unit, would not recover the oil and gas being recovered by the new well, J.A. Akens No. 11, due to reservoir discontinuity. This lack of continuity of porosity is shown on the attached cross section which indicates that J.A. Akens No. 11 has some 31 feet of pay porosity which is not present in J.A. Akens No. 8. The lack of continuity is also shown by the attached production decline curve of J.A. Akens No. 8. The curve indicates that the production from No. 8 has not been affected by the completion of No. 11.

The volume of increased ultimate recovery expected to be obtained from Akens No. 11 is 45,631 RBLS of oil and 282,454 MCF of gas. These volumes are based on the 31 feet of net pay present in Akens 11 which is not present in Akens 8 and the following formulas.

Recoverable bbls of oil = Original oil in place times recovery factor of 0.15

$$\begin{aligned} \text{OOIP} &= \frac{7758 \text{ BBL/ AF} \times 40\text{AC} \times 31 \text{ FEET} \times .076 \text{ POROSITY} \times (1-.405) \text{ SATURATION}}{1.43 \text{ OIL FORMATION VOL FACTOR}} \\ &= 304,205 \text{ STB} \end{aligned}$$

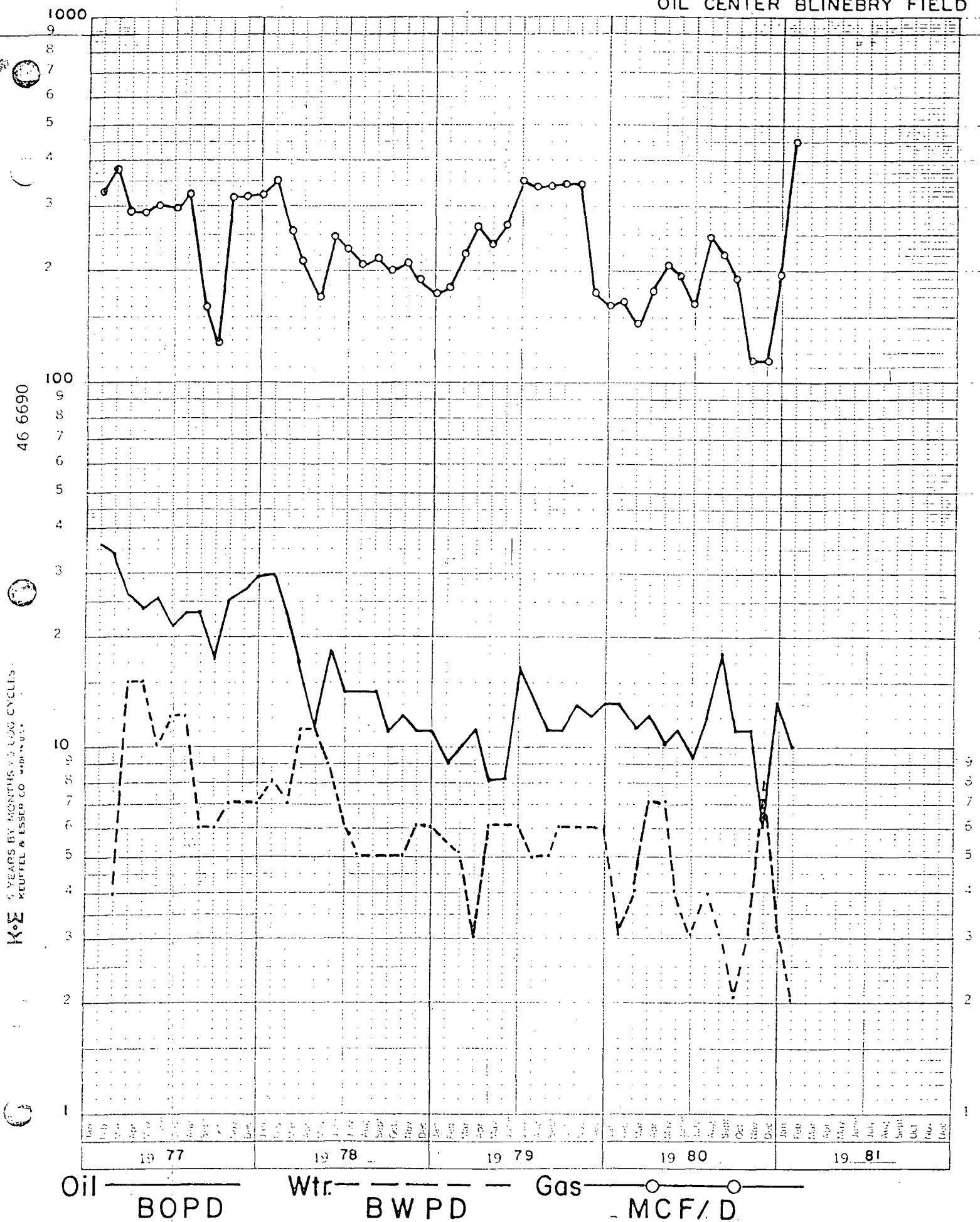
Recoverable oil = 304,205 x 0.15 = 45,631 STB

$$\begin{aligned} \text{Recoverable gas} &= \frac{304,205 \text{ STB} (1238 \text{ CF/B SOLN RATIO}) \times 0.75 \text{ RECOVERY FACTOR}}{1000} \\ &= 282,454 \text{ MCF} \end{aligned}$$

Prepared by:

T. M. Gladney
T. M. Gladney

CASE NO.

SUN OIL CO.
JA AKENS No. 8
OIL CENTER BLINEBRY FIELD

J.A. AKENS #8
OIL CENTER - BLINEBRY FIELD
LEASE # 401150
PRODUCTION SUMMARY: 1981

	J.A. AKENS #8	BOPD	BEPD	MCF/D
1981	JANUARY	10	2	145
	FEBRUARY			
	MARCH			
	APRIL			
	MAY			
	JUNE			
	JULY			
	AUGUST			
	SEPTEMBER			
	OCTOBER			
	NOVEMBER			
	DECEMBER			

CASE NO.

EXHIBIT No.

SUN OIL CO.

JA AKENS NO. 11

OIL CENTER BLINEBRY FIELD

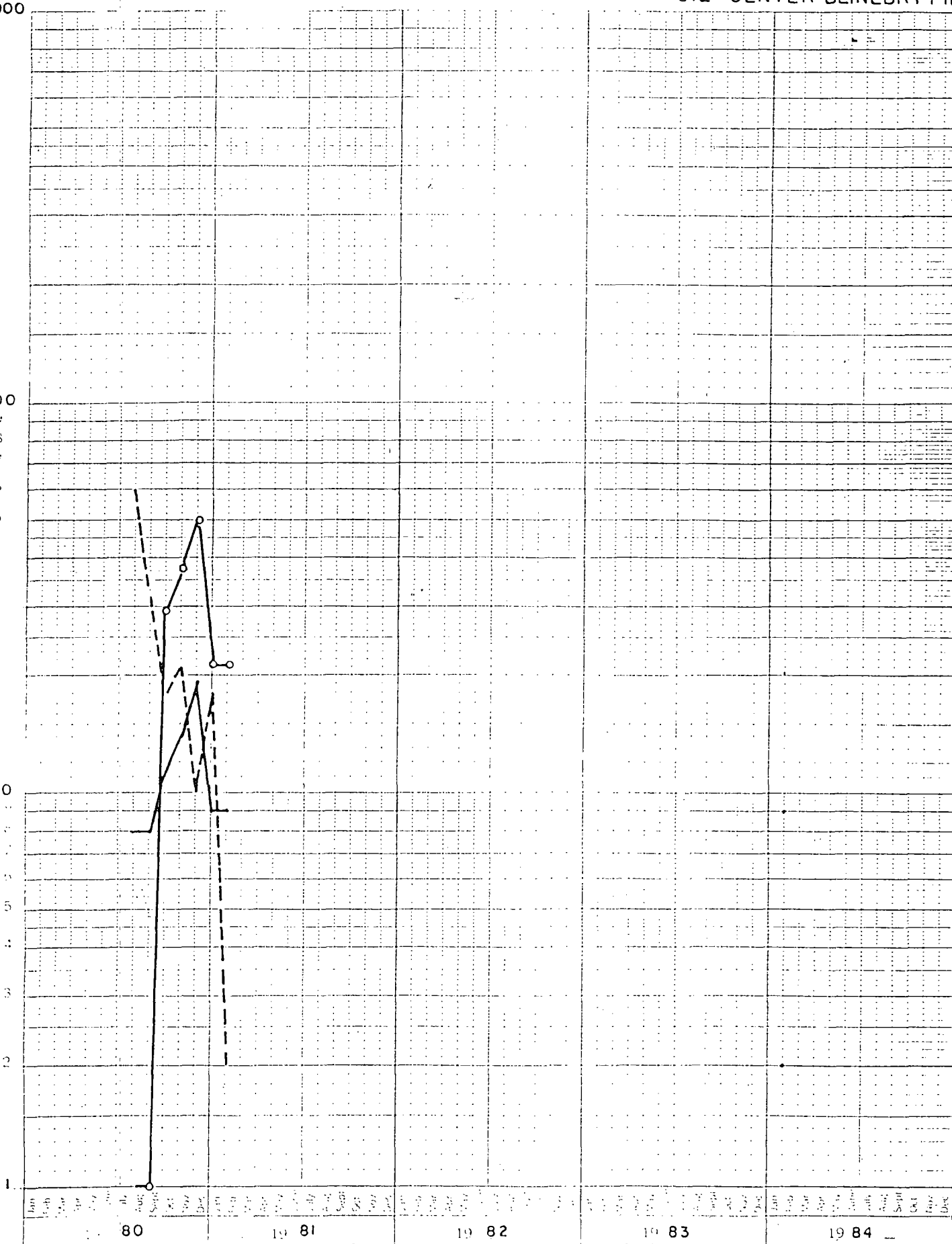
46 6690

16.2 YEARS BY MONTHS + 2 LOG CYCLES
KEU FILL & LESSEY CO. OWNERS

1000

100

10



Oil — BOPD

Wtr. — BWPD

Gas — MCF/D

J.A. AKENS #8
OIL CENTER - BLINEBRY FIELD
LEASE # 401150
PRODUCTION SUMMARY: 1976-1980

	J.A. AKENS #8	BOPD	BWPD	MCF/D
1977	JANUARY	36	4	323
	FEBRUARY	34	4	374
	MARCH	26	15	287
	APRIL	24	15	287
	MAY	25	10	299
	JUNE	21	12	290
	JULY	23	12	315
	AUGUST	23	6	160
	SEPTEMBER	17	6	125
	OCTOBER	25	7	317
	NOVEMBER	27	7	315
	DECEMBER	29	7	313
1978	JANUARY	29	8	347
	FEBRUARY	23	7	247
	MARCH	17	11	210
	APRIL	11	11	167
	MAY	18		243
	JUNE	14	6	13
	JULY	14	5	206
	AUGUST	14	5	212
	SEPTEMBER	11	5	199
	OCTOBER	12	5	207
	NOVEMBER	11	6	185
	DECEMBER	11	6	171
1979	JANUARY	9	6	177
	FEBRUARY	10	5	216
	MARCH	11	3	260
	APRIL	8	6	232
	MAY	8	6	265
	JUNE	16	6	344
	JULY	14	5	335
	AUGUST	11	5	340
	SEPTEMBER	11	6	34
	OCTOBER	13	6	340
	NOVEMBER	12	6	172
	DECEMBER	13	6	160
1980	JANUARY	13	3	165
	FEBRUARY	11	4	141
	MARCH	12	7	175
	APRIL	10	7	201
	MAY	11	4	193
	JUNE	9	3	159
	JULY	12		219
	AUGUST	18		246
	SEPTEMBER	11	2	186
	OCTOBER	11	3	189
	NOVEMBER	6	8	112
	DECEMBER	13	3	192

J.A. AKENS #11
OIL CENTER - BLINEBRY FIELD
LEASE #401150
PRODUCTION SUMMARY: 1980-1981

	BOPD	BWPD	MGF/D
1980			
J.A. AKENS #11			
JANUARY			
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY	8	60	0
AUGUST	8	32	0
SEPTEMBER	11	18	29
OCTOBER	14	21	38
NOVEMBER	19	10	50
DECEMBER	9	18	21
1981			
JANUARY	9	2	21
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			



SUN PRODUCTION COMPANY

CAMPBELL CENTRE II, P.O. BOX 2880, DALLAS, TEXAS 75221

March 18, 1981

Kellahin and Kellahin
500 Don Gaspar Avenue
P.O. Box 1769
Santa Fe, New Mexico 87501

Attention: Mr. Tom Kellahin

Re: Sec. 103 Determination NGPA
J. A. Akens Well No. 11
Oil Center Blinberry Pool
Lea County, New Mexico

Dear Tom:

Your letter of January 23, 1981, advised the above well was subject to Order R-6013-A and could receive administrative approval. We are enclosing the following exhibits in triplicate. Two copies for the Oil Conservation Division and one copy for your files.

1. Copy of approved Form C-101 and Form C-102.
2. Structure Contour map and Stratigraphic Cross Section with explanation.
3. Formula regarding increased ultimate recovery from Well No. 11.
4. Production Graph and Summary Well No. 8.
5. Production Graph and Summary Well No. 11.

Please note this application is for Sun Oil Company and not Sun Gas Company. We are only authorized to do business with the Regulatory agency as Sun Oil Company.

If additional information is desired, please advise.

Yours very truly,

A handwritten signature in cursive script, appearing to read "J. T. Harris".
J. T. Power
by J. T. Harris

JTP:JTH: cb

SUN OIL COMPANY
J.A. AKENS NO. 11
OIL CENTER - BLINEBRY POOL
LEA COUNTY, NEW MEXICO

Spud Date: July 28, 1980
Completion Date: September 13, 1980

Well Test (January 6, 1981)

16 BBL Oil Per Day
12 BBL Water Per Day
59 MCF Gas Per Day

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$$\text{OOIP} = \frac{7758 \text{ BBL/ AF} \times 40\text{AC} \times 31 \text{ FEET} \times .076 \text{ POROSITY} \times (1-.405) \text{ SATURATION}}{1.43 \text{ OIL FORMATION VOL FACTOR}}$$

$$= 304,205 \text{ STB}$$

$$\text{Recoverable oil} = 304,205 \times 0.15 = 45,631 \text{ STB}$$

$$\text{Recoverable gas} = \frac{304,205 \text{ STB} (1238 \text{ CF/B SOLN RATIO}) \times 0.75 \text{ RECOVERY FACTOR}}{1000}$$

$$= 282,454 \text{ MCF}$$

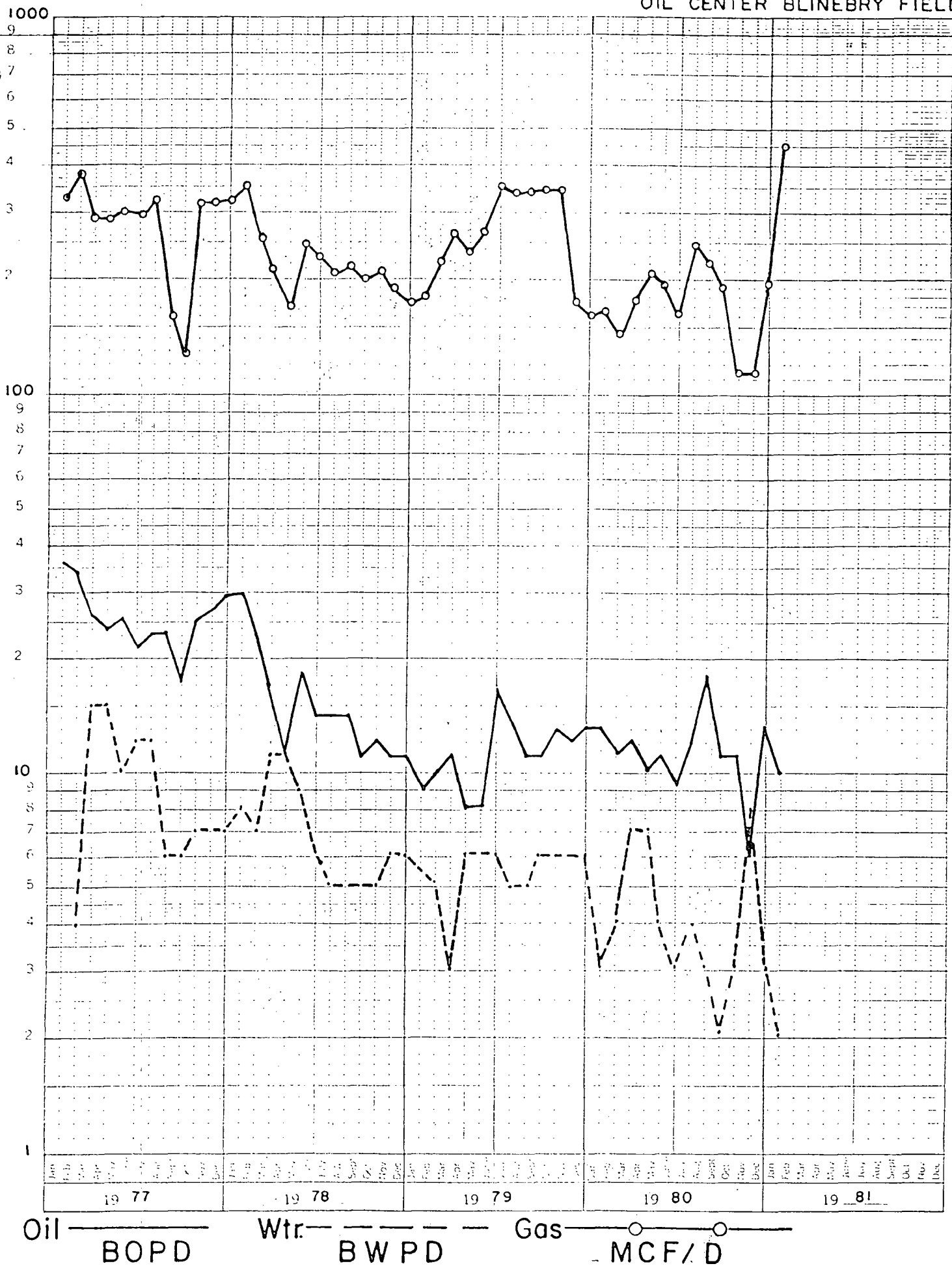
Prepared by:

T.M. Gladney
T. M. Gladney

CASE NO.

SUN OIL CO.
JA AKENS No. 8
OIL CENTER BLINEBRY FIELDK&S
YEARS BY MONTHS & LOG CYCLES
KEUFFEL & ESSER CO. MINNAPOLIS

46 6690



J.A. AKENS #8
OIL CENTER - BLINEBRY FIELD
LEASE # 401150

PRODUCTION SUMMARY: 1981

	J.A. AKENS #8	BOPD	BEPD	MCF/D
1981	JANUARY	10	2	145
	FEBRUARY			
	MARCH			
	APRIL			
	MAY			
	JUNE			
	JULY			
	AUGUST			
	SEPTEMBER			
	OCTOBER			
	NOVEMBER			
	DECEMBER			

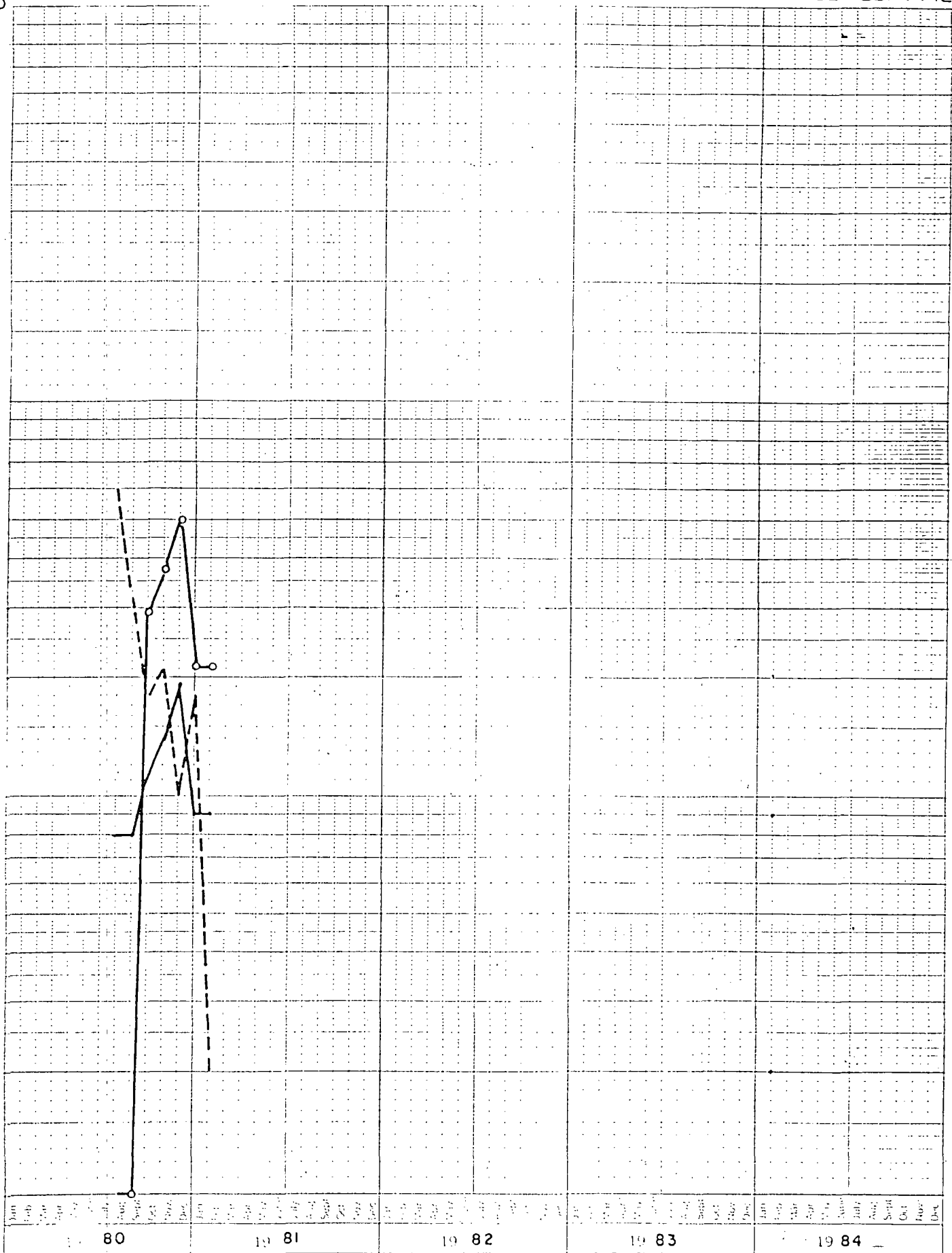
CASE NO.

EXHIBIT No. _____
 SUN OIL CO.
 J A AKENS NO. 11
 OIL CENTER BLINEBRY FIELD

46 6690

NOE 5 YEARS BY MONTHS 3 LOG CYCLES
 KENNEDY & ESSER CO. 10/15/84

1000
9
8
7
6
5
4
3
2
100
9
8
7
6
5
4
3
2
10
9
8
7
6
5
4
3
2
1



Oil — BOPD Wtr. — BWPD Gas — MCF/D

J.A. AKENS #8
OIL CENTER - BLINEBRY FIELD
LEASE # 401150
PRODUCTION SUMMARY: 1976-1980

	J.A. AKENS #8	BOPD	BWPD	MCF/D
1977	JANUARY	36	4	323
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	JUNE	9	3	159
	JULY	12		219
	AUGUST	18		246
	SEPTEMBER	11	2	186
	OCTOBER	11	3	189
	NOVEMBER	6	8	112
	DECEMBER	13	3	192

J.A. AKENS #11
OIL CENTER - BLINEBRY FIELD
LEASE #401150
PRODUCTION SUMMARY: 1980-1981

	BOPD	BWPD	MGF/D
1980			
J.A. AKENS #11			
JANUARY			
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY	8	60	0
AUGUST	8	32	0
SEPTEMBER	11	18	29
OCTOBER	14	21	38
NOVEMBER	19	10	50
DECEMBER	9	18	21
1981			
JANUARY	9	2	21
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			

30-025-2674

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Original
File Copy

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		
b. Type of Well		
DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>
SINGLE ZONE <input type="checkbox"/>		
MULTIPLE ZONE <input type="checkbox"/>		

7. Unit Agreement Name

8. Firm or Lease Name

Akens, J. A.

9. Well No.

11

10. Field and Pool, or Wildcat

Oil Center - Blinebr

2. Name of Operator
Sun Oil Company

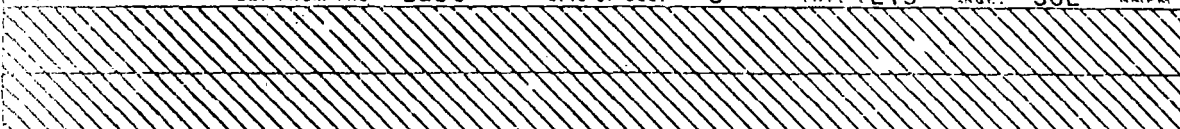
3. Address of Operator
P. O. Box 1861 Midland, Texas 79702

4. Location of Well
UNIT LETTER AR LOCATED 1980 FEET FROM THE South LINE

AND 2164 FEET FROM THE East LINE OF SEC. 3 TWP. 21S RGE. 36E NADIM

12. County

Lea



19. Proposed Depth 6300'		19A. Formation Blinebry		20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 3551.3' GL		21A. Kind & Status Plug. Bond on file		21B. Drilling Contractor unknown	
22. Approx. Date Work will start upon approval					

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8-5/8"	24#	1300'	600	Surf.
7-7/8"	5-1/2"	14 & 15.5#	6300'	1080	1200'
		DV Tool	3900'		

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROD ZONE. GIVE OUTLINE PREVENTION PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Doris Williams Title Accounting Assistant Date March 17, 1980

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT 1 DATE MAR 20 1980

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Supersedes C-128
Effective 1-1-65

Sun Oil Co.		Lessee J.A. Akens		Well No. 11
Section 3	Range 36 East	County Leo		

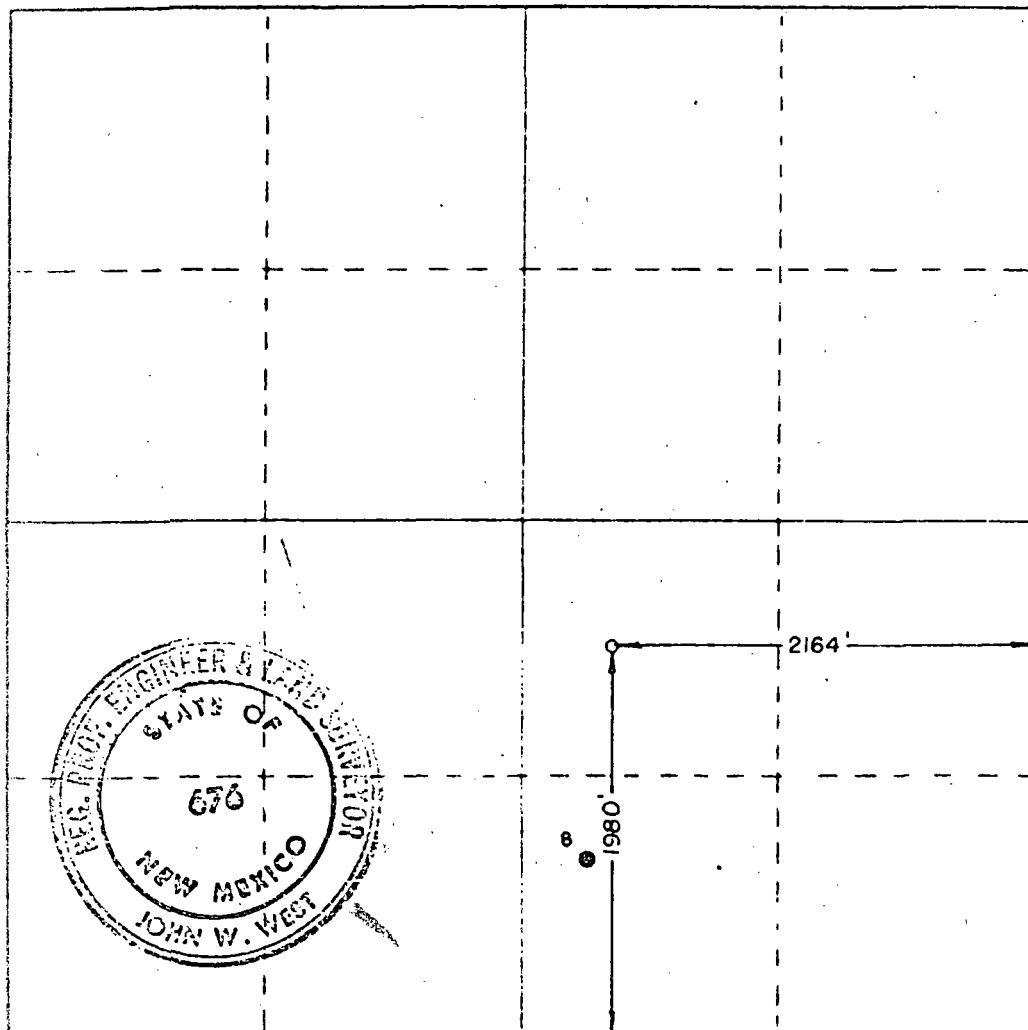
Actual Well Location of Well:				
1980	feet from the South	line and 2164	feet from the East	line
Ground Level Elev. 3551.3	Producing Formation Blinebry	Point Oil Center - Blinebry	Dedicated Acreage: 80 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Doris Williams
Name

Accounting Assistant

Position

Sun Oil Company

Company

March 17, 1980

Date

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 knowledge and belief.

Date

March 5, 1980

Registration No. 676

Professional Engineer

and State of New Mexico

John W. West
Name

JOHN W. WEST 676

PATRICK A. ROMERO 6663

Ronald J. Edson 3239

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

JUL 15 1980

Form C-103
Revised 10-1-7

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OPERATOR	

SUNDY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO REOPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT TO DRILL OR TO REOPEN OR PLUG BACK TO A DIFFERENT RESERVOIR."

OIL WELL ☒ GAS WELL ☐

OTHER

Name of Operator

Sun Oil Company

Address of Operator

P. O. Box 1861 Midland, Texas 79702

Location of Well

UNIT LETTER R 1980 FEET FROM THE South LINE AND 2164 FEET FROM
THE East LINE, SECTION 3 TOWNSHIP 21S RANGE 36E NMPM.

5a. Indicate Type of Lease

State ☐ Fee ☒

5. State Oil & Gas Lease No.

7. Unit Agreement Date

8. Farm or Lease Name

9. Well No.

Akens, J. A. #11

10. Field and Pool, or Wildcat

Oil Center - Blinbry

15. Elevation (Show whether DF, RT, GR, etc.)

3551.3' GL

12. County

Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

REPAIR REMEDIAL WORK ☐

REPAIR ABANDON ☐

REPAIR ALTER CASING ☐

OTHER ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

OTHER ☐

REMEDIAL WORK ☐

COMMENCE DRILLING OPERATIONS ☐

CASING TEST AND CEMENT JOBS ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☐

OTHER ☐

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

-28-80 MIRU Hillin

-29-80 Spud 11 PM

-31-80 Ran 8-5/8" 24# csg @ 1290'. Cmt'd w/400 sx Howco Lite.

200 sx Class "C" 2% CaCl2 1/4# FCL. Circ. 100 sx.

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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

By Terresa Bradley

TITLE Accounting Assistant

DATE 7-14-80

APPROVED BY

TITLE

DATE

ADDITIONS OF APPROVAL, IF ANY:

J. A. Akens #11 N.G.P.A.
EXHIBIT #1

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INTENTIONAL OMISSIONS

The following document(s) have been intentionally omitted from this file due to the indicated reasons.

FILE # NFC 26

DESCRIPTION OF OMITTED DOCUMENTS

OMITTED DOCUMENT

REASON OMITTED

Graph & Legend Map

TOO LARGE