

DATE IN 7-8-03	SUSPENSE 7-28-03	ENGINEER MS	LOGGED IN MS	TYPE NSL	APPROVAL NO. 319249815
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



RECEIVED

JUL 8 2003

ADMINISTRATIVE APPLICATION CHECKLIST

Oil Conservation Division

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.

James Bruce
 Print or Type Name

Signature

Attorney for Applicant

Title

jamesbruc@aol.com

e-mail Address

Date

7/8/03

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (PHONE)
(505) 982-2151 (FAX)

jamesbruc@aol.com

RECEIVED

JUL 8 2003

Oil Conservation Division

July 8, 2003

Hand Delivered

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

30-015-32472

Dear Mr. Stogner:

Pursuant to Division Rule 104.F.(2), Pogo Producing Company applies for administrative approval of an unorthodox gas well location for the following well:

<u>Well:</u>	Pecos "32" State Well No. 2
<u>Surface Location:</u>	660 feet FNL & 1650 feet FWL
<u>Bottomhole Location:</u>	1980 feet FNL & 2370 feet FWL
<u>Well Unit:</u>	W½ of Section 32, Township 19 South, Range 27 East, N.M.P.M., Eddy County, New Mexico

The well was drilled vertically at the above surface location to test the Morrow formation (Undesignated North McMillan-Morrow Gas Pool). The Form C-102 is attached as Exhibit A. The well was dry at the original location, and applicant requests approval to directionally drill there well to the above bottomhole location. Attached as Exhibit B is a copy of the Form C-103, containing the directional drilling proposal. 81280

Applicant requests unorthodox location approval for all gas zones from the top of the Cisco formation to the base of the Morrow formation. The approximate tops of the Cisco, Strawn, Atoka, and Morrow are given on Exhibit C, which is the completion report for the Pecos "32" State Well No. 1, located in the E½ of Section 32.

The application is based on geologic and economic reasons. As noted above, the well was dry at the original location. Attached as Exhibit D is an isopach map, which indicates directionally drilling the well to the proposed bottomhole location will allow

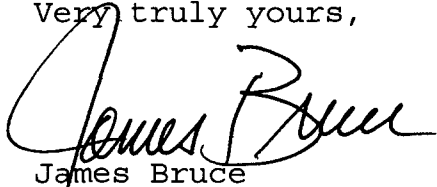
the well to encounter approximately 30 feet of Morrow sand, which is somewhat less than the thickness encountered by the successful well in the E½ of Section 32. Drilling directionally will be less expensive than drilling an entirely new well at the proposed bottomhole location.

Attached as Exhibit E is a land plat. The E½ of Section 32 is covered by State Lease V-5197-1, and the W½ of Section 32 is covered by State Lease V-5196-2. Ownership of both leases is as follows:

Royalty:	State of New Mexico ¹ (16-2/3%)
Overriding Royalty:	Devon Energy Production Company, L.P. (6-5/6%)
Working Interest:	Pogo Producing Company (66-2/3%) Marbob Energy Corporation (33-1/3%)

As a result, the well is not adversely affecting interest owners in the E½ of Section 32, so notice has not been given to anyone.

Very truly yours,



James Bruce

Attorney for Pogo Producing Company

¹The beneficiary of both leases is the Common Schools fund.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

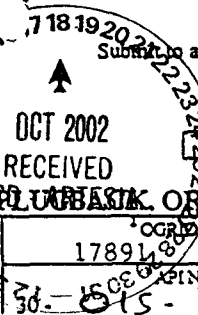
State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised March 17, 1999

RECEIVED

NOV 05 2002

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505



Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies
AMENDED REPORT

APPLICATION FOR PERMIT TO ~~MODIFY~~ RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

Operator Name and Address POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7440		CGP Number 178918
Property Code 30694	Property Name PECOS "32" STATE	Well No. 2

Surface Location

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
C	32	19S	27E		660'	North	1650'	West	EDDY

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County

Proposed Pool 1

McMILLIAN MORROW NORTH (GAS) (81240)

Proposed Pool 2

Work Type Code N	Well Type Code G	Cable/ Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3325'
Multiple NO	Proposed Depth 11,000'	Formation MORROW	Contractor UNKNOWN	Spud Date WHEN APPROVED

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	NA	40'	Redi-mix	SURFACE
17 1/2"	13 3/8"	48	40'	550 Sx.	SURFACE
12 1/2"	9 5/8"	40.5	3000'	1200 Sx.	SURFACE
8 1/2", 7 7/8"*	5 1/2"	17	11,000	1000 Sx.	Est. TOC 2000'

* Max 13 3/8" casing depth is 750' 134

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17 1/2" hole to 40'. Run and set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 550 Sx. of Class "C" cement + 2% CaCl, + 1/2# Flocele/Sx., circulate cement to surface.
3. Drill 12 1/2" hole to 3000'. Run and set 3000' of 9 5/8" 40.5# J-55 ST&C casing. Cement with 1200 Sx. of Class "C" cement + additives, circulate cement to surface.
4. Drill 8 1/2" hole through the Cisco at 9000'±, if no lost circulation problems occur, reduce hole to 7 7/8" and drill to a total depth of 11,000'. Run and set 11,000' of 5 1/2" casing as follows: 3000' of 5 1/2" 17# N-80 LT&C, 6000' of 5 1/2" 17# J-55 LT&C, 2000' of 5 1/2" 17# N-80 LT&C casing. Cement in 3 stages with DV Tools at 9100' & 6000'. Cement with 1000 Sx. of Class "H" cement Plus additives. Estimate top of cement 2000' from surface.

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

Signature:

Printed name:

Title:

Date:

Joe T. Janica
Agent

10/17/02

Approved by:

Title:

Approval Date:

Conditions of Approval:

Attached ☐

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

OCT 18 2002

Expiration Date OCT 18 2003

EXHIBIT

A

DISTRICT I

P.O. Box 1900, Hobbs, NM 88241-1900

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, N.M. 87504-2088

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-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 81240	Pool Name McMILLIAN MORROW NORTH (GAS)
Property Code	Property Name PECOS "32"	Well Number 2
OGRID No. 17891	Operator Name POGO PRODUCING COMPANY	Elevation 3325'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	19-S	27-E		660	NORTH	1650	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature <i>Joe T. Janica</i> Joe T. Janica Printed Name Agent Title 10/17/02 Date	
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 11, 2002 Date Surveyed Signature <i>Ronald J. Eidson</i> Professional Surveyor NEW MEXICO 02-11-0762 Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641	

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

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.
30-015-32472

Indicate Type of Lease

STATE ☒

FEE ☐

State Oil & Gas Lease No.

Lease Name or Unit Agreement Name

Pecos 32 State

Well No.

2

Pool name or Wildcat

McMillan Morrow North (Gas)

Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

Name of Operator

Pogo Producing Company

Address of Operator

P. O. Box 10340, Midland, TX 79702-7340

Well Location

Unit Letter C : 660 Feet From The North Line and 1650 Feet From The West Line

Section 32 Township 19S Range 27E NMPM Eddy County

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

3325'

11

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☒

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ANBANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

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.

Upon reaching Total Depth of subject well and assuming that the well be deemed noncommercial in the Penn formation, Pogo Producing Company will plug the lower portion of the well as per NMOCD orders. One hundred foot plugs set 10170-10070 "top of Morrow", 9674-9574 "top of Atoka and 8100-8000 "top of Cisco". Pogo Producing Company respectfully request to a change of plans as follows. Set a 400' "kickoff" plug 7700-7300. A kickoff point will be established at $\pm 7500'$. A Gyro will then be run to surface and the well will be deviated to a point as shown on the attached plats. New Bottom Hole Location will be approximately 1980' FNL & 2370' FWL, Section 32, T19S, R27E, Eddy County, NM. Hard lines established 2310' FNL & 2630' FWL. A NSL will be obtained prior to reaching total depth of 10700' TVD. East and West half of Section 32 are separate leases with common ownership.

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

SIGNATURE Cathy Tomberlin TITLE Sr. Operation Tech DATE 07/03/03

TYPE OR PRINT NAME Cathy Tomberlin 432-685-8100 TELEPHONE NO.

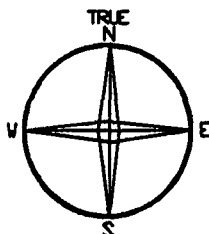
(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

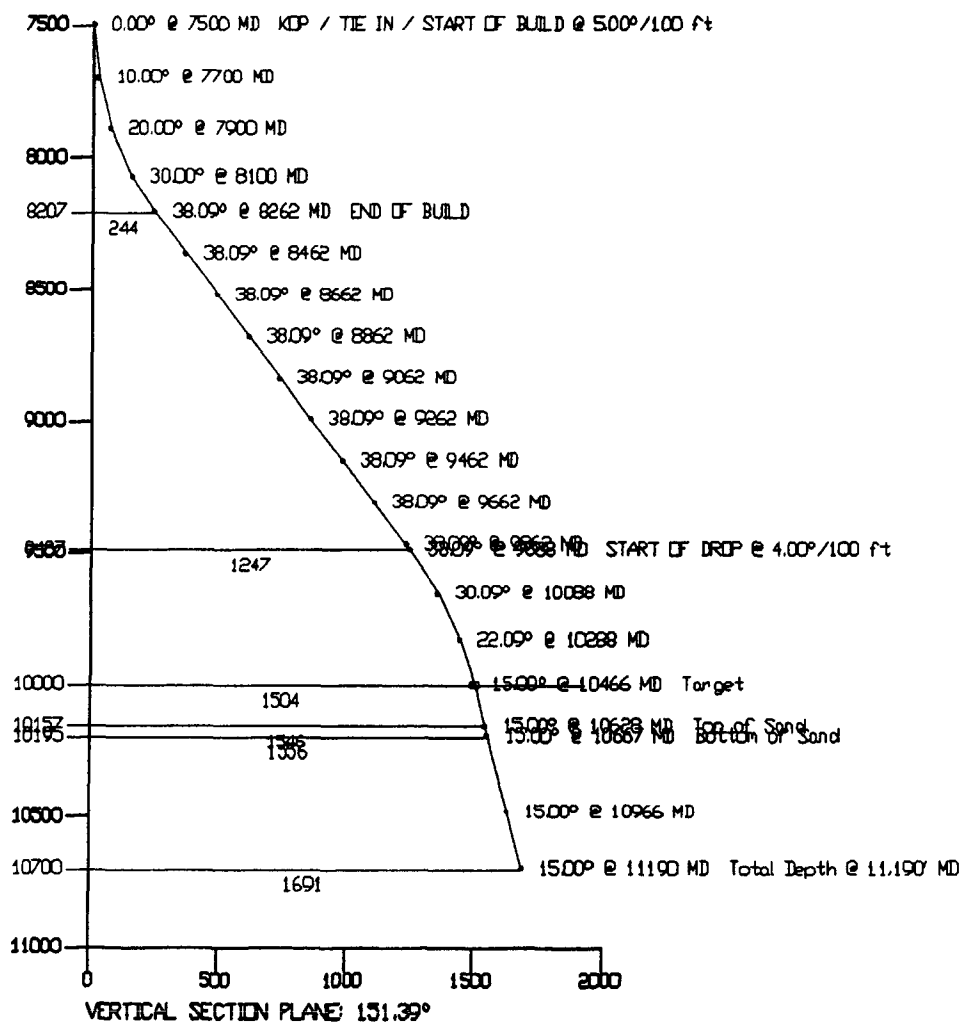
CONDITIONS OF APPROVAL, IF ANY:



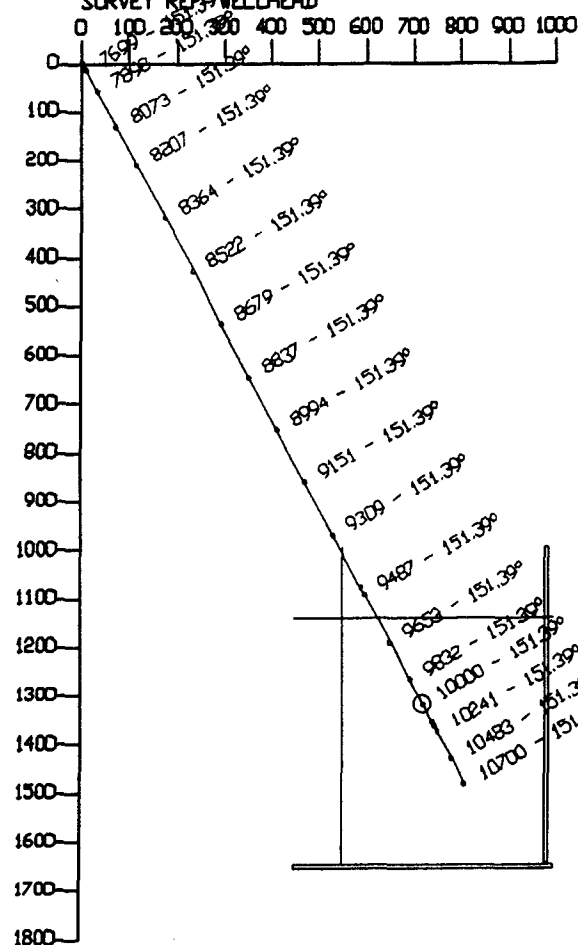
Pogo Producing Co.
 Eddy, Co. NM
 Patterson #142
 Sec. 32 - T19S - R27E
 Pecos "32" State #2/Proposal



VERTICAL VIEW
 SCALE 500 FT. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD



HORIZONTAL VIEW
 SCALE 100 FT. / DIVISION
 SURVEY REF: WELLHEAD



PROPOSED BHL			
TVD	10700.00		
MD	11190.23		
N/S	169.16		
E/W	148.16		
	800.82		

CRITICAL POINT DATA						
	MD	INC	AZ	TVD	N/S	E/W
KOP / TIE IN /	7500	0.00°	151.39°	7500	N	E
START OF BUILD						
@ 5.00°/100 ft						
END OF BUILD	8262	38.09°	151.39°	8207	214 S	117 E
START OF DROP	9862	38.09°	151.39°	9487	1035 S	597 E
@ 4.00°/100 ft						
Target	10466	15.00°	151.39°	10000	1330 S	720 E
Top of Sand	10628	15.00°	151.39°	10197	1324 S	740 E
Bottom of Sand	10869	15.00°	151.39°	10188	1324 S	740 E
Total Depth @	11190	15.00°	151.39°	10700	1485 S	810 E
11.190° MD						

PathFinder Energy Services

Page 1

Proposal Report

Date: 7/2/2003

Time: 6:51 pm

Wellpath ID: Pecos "32" State #2/Proposal

Last Revision: 7/2/2003

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.6

Vertical Section Plane: 151.39 deg.

Survey Reference: WELLHEAD

Vertical Section Reference: WELLHEAD

Closure Reference: WELLHEAD

TVD Reference: WELLHEAD

Pogo Producing Co.

Eddy, Co. NM

Patterson #142

Sec. 32 - T19S - R27E

Pecos "32" State #2/Proposal

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
KOP / TIE IN / START OF BUILD @ 5.00 deg/100 ft								
7500.00	0.00	0.00	7500.00	0.00	0.00 N	0.00 E	0.00@ 0.00	0.00
7700.00	10.00	151.39	7698.99	17.41	15.28 S	8.34 E	17.41@ 151.39	5.00
7900.00	20.00	151.39	7891.93	69.11	60.67 S	33.09 E	69.11@ 151.39	5.00
8100.00	30.00	151.39	8072.96	153.52	134.78 S	73.52 E	153.52@ 151.39	5.00
END OF BUILD								
8261.75	38.09	151.39	8206.87	244.00	214.21 S	116.84 E	244.00@ 151.39	5.00
8461.75	38.09	151.39	8364.29	367.37	322.51 S	175.92 E	367.37@ 151.39	0.00
			5394'		325	176		
8661.75	38.09	151.39	8521.70	490.75	430.82 S	234.99 E	490.75@ 151.39	0.00
8861.75	38.09	151.39	8679.12	614.12	539.13 S	294.07 E	614.12@ 151.39	0.00
9061.75	38.09	151.39	8836.53	737.49	647.44 S	353.15 E	737.49@ 151.39	0.00
9261.75	38.09	151.39	8993.94	860.86	755.75 S	412.23 E	860.86@ 151.39	0.00
9461.75	38.09	151.39	9151.36	984.24	864.06 S	471.30 E	984.24@ 151.39	0.00
9661.75	38.09	151.39	9308.77	1107.61	972.36 S	530.38 E	1107.61@ 151.39	0.00
9861.75	38.09	151.39	9466.19	1230.98	1080.67 S	589.46 E	1230.98@ 151.39	0.00
START OF DROP @ 4.00 deg/100 ft								
9888.37	38.09	151.39	9487.14	1247.40	1095.09 S	597.32 E	1247.40@ 151.39	0.00
10088.37	30.09	151.39	9652.64	1359.40	1193.41 S	650.95 E	1359.40@ 151.39	4.00
			9645'		1200'S	655'E		
10288.37	22.09	151.39	9832.12	1447.28	1270.56 S	693.03 E	1447.28@ 151.39	4.00
Target			9895'		1275'S	700'E		
10465.56	15.00	151.39	10000.00	1503.60	1320.00 S	720.00 E	1503.60@ 151.39	4.00
Top of Sand								
10628.10	15.00	151.39	10157.00	1545.66	1356.93 S	740.14 E	1545.66@ 151.39	0.00
Bottom of Sand								
10667.44	15.00	151.39	10195.00	1555.85	1365.87 S	745.02 E	1555.85@ 151.39	0.00
10715.56	15.00	151.39	10241.48	1568.30	1376.80 S	750.98 E	1568.30@ 151.39	0.00
10965.56	15.00	151.39	10482.96	1633.01	1433.61 S	781.97 E	1633.01@ 151.39	0.00

PathFinder Energy Services

Page 2

Date: 7/2/2003

Proposal Report

Wellpath ID: Pecos "32" State #2/Proposal

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)		DLS (dg/100ft)
Total Depth @ 11,190' MD									
11190.25	15.00	151.39	10700.00	1691.16	1484.66 S	809.82 E	1691.16@	151.39	0.00

Submit to Appropriate
District Office
State Lease - 6 copies
For 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 AP NO.

30-015-32471

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Pecos 32 State

8. Well No.

1

9. Pool name or Wildcat

McMillan Morrow North (Gas)

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 ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐

2. Name of Operator

Pogo Producing Company

3. Address of Operator

P. O. Box 10340, Midland, TX 79702-7340

4. Well Location

Unit Letter H: 1980 Feet From The North Line and 990 Feet From The East Line

Section 32 Township 19S Range 27E NMPM Eddy County

10. Date Spudded

03/03/03

11. Date T.D. Reached

04/09/03

12. Date Compl. (Ready to Prod.)

05/03/03

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

3421

14. Elev. Casinghead

3422

15. Total Depth

10,800

16. Plug Back T.D.

10,753

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools
0-10800

Cable Tools

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

Morrow 10,407-442

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

ILL DNL

22. Was Well Cored

No

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	247	17-1/2	350 sks	
9-5/8	53.5, 47, 43.5	3002	12-1/4	900 sks	
5-1/2	17	10800	7-7/8	2075 sks	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD SIZE	DEPTH SET	PACKER SET
					2-7/8	10366	

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

10,407-442 (6 spf)

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

DEPTH INTERVAL

10,407-442

AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production 05/03/03		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing	
Date of Test 05/06/03	Hours Tested 24	Choke Size 15/64	Prod'n For Test Period	Oil - Bbl. 55	Gas - MCF 4539	Water - Bbl. 0	Gas - Oil Ratio 82,527:1
Flow Tubing Press. 2550	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 55	Gas - MCF 4539	Water - Bbl. 0	Oil Gravity - API - (Corr.) 55.8	

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

Sold

Test Witnessed By

Gary Michael

30. List Attachments

C-104, Deviation Survey, Logs, Sundry

31. I hereby certify that the information shown on both sides of this form

Bundling No. 3208

EXHIBIT

C

of my knowledge and belief

Signature

Cathy Tomberlin

Printed Name

Cathy Tomberlin

Title

Sr. Oper. Tech

Date 05/15/03

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____
 T. Salt _____
 B. Salt _____
 T. Yates _____
 T. 7 Rivers _____
 T. Queen _____
 T. Grayburg _____
 T. San Andres _____
 T. Glorieta _____
 T. Paddock _____
 T. Blinbry _____
 T. Tubb _____
 T. Drinkard _____
 T. Abo _____
 T. Wolfcamp _____
 T. Penn _____
 T. Cisco (Bough C) _____

T. Canyon _____
 T. Strawn _____
 T. Atoka _____
 T. Miss _____
 T. Devonian _____
 T. Silurian _____
 T. Montoya _____
 T. Simpson _____
 T. McKee _____
 T. Ellenburger _____
 T. Gr. Wash _____
 T. Delaware Sand _____
 T. Bone Springs _____
 T. _____
 T. _____
 T. _____

Northwestern New Mexico

T. Ojo Alamo _____
 T. Kirtland-Fruitland _____
 T. Pictured Cliffs _____
 T. Cliff House _____
 T. Menefee _____
 T. Point Lookout _____
 T. Mancos _____
 T. Gallup _____
 Base Greenhorn _____
 T. Dakota _____
 T. Morrison _____
 T. Todilto _____
 T. Entrada _____
 T. Wingate _____
 T. Chinle _____
 T. Permian _____
 T. Penn "A" _____

T. Penn. "B" _____
 T. Penn. "C" _____
 T. Penn. "D" _____
 T. Leadville _____
 T. Madison _____
 T. Elbert _____
 T. McCracken _____
 T. Ignacio Otzte _____
 T. Granite _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____

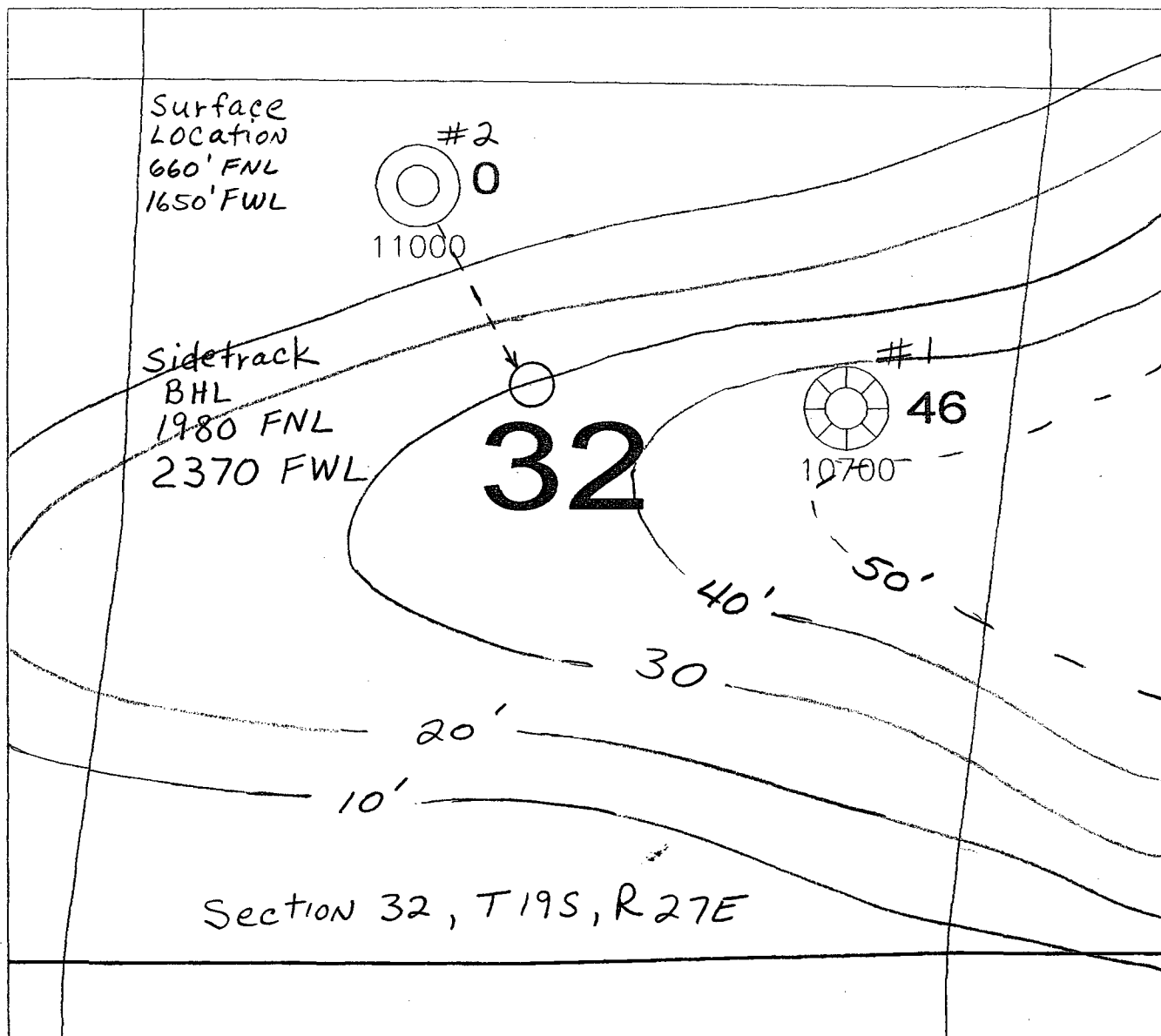
IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
		288	Seven Rivers				
		854	Queen				
		1222	Grayburg				
		1751	San Andres				
		5454	1st Bone Sand				
		7946	Wolfcamp				
		8394	Cisco				
		9174	Strawn				
		9695	Atoka				
		9895	Morrow Lime				
		10184	Morrow Clastics				
		10730	Chester				



Pogo Producing Company

Pecos 32 State #2 Sidetrack
Morrow Isopach Map

Blumberg No. 5208

EXHIBIT

D

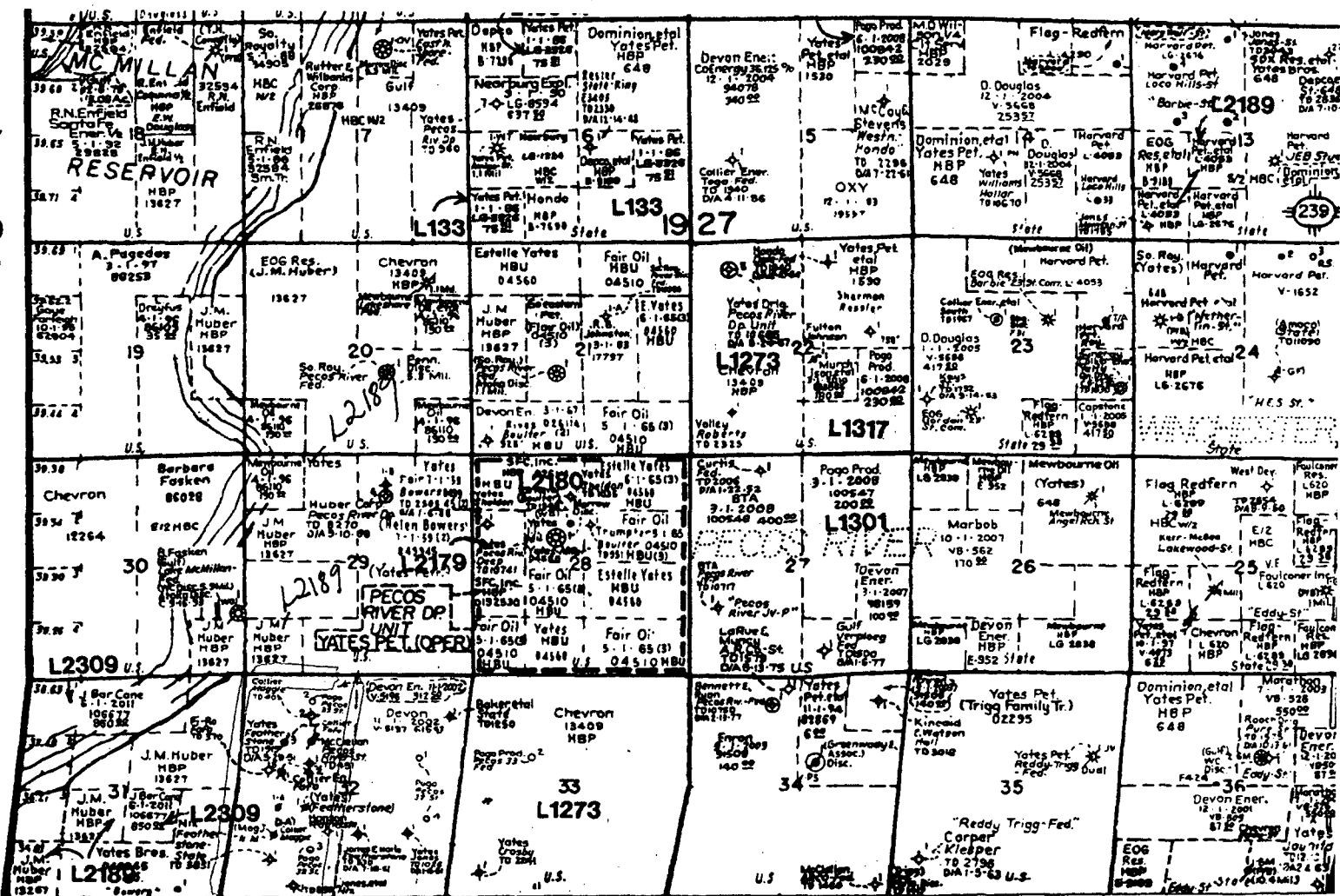
WEH

7/7/03

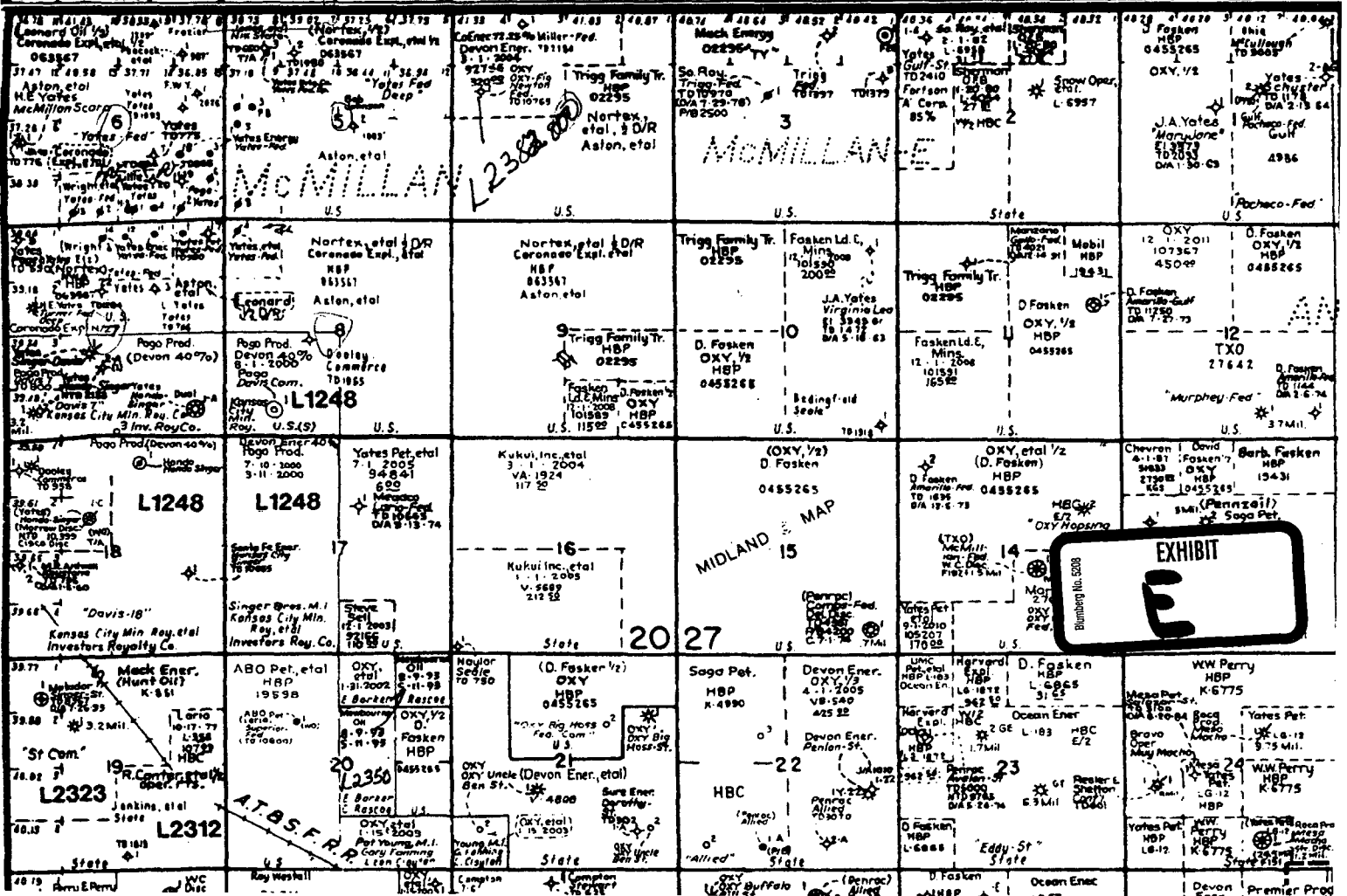
1" = 1000'

mcmillan.gpf

T
19
S



T
20
S



CMD :
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INQUIRE LAND BY SECTION07/11/03 13:48:29
OGOMES -TPSM
PAGE NO: 1

Sec : 32 Twp : 19S Rng : 27E Section Type : NORMAL

D 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02	C 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A	B 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02	A 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A
E 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A A	F 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A C	G 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02	H 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A

M0002: This is the first page

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

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OGOMES -TPSM
PAGE NO: 2

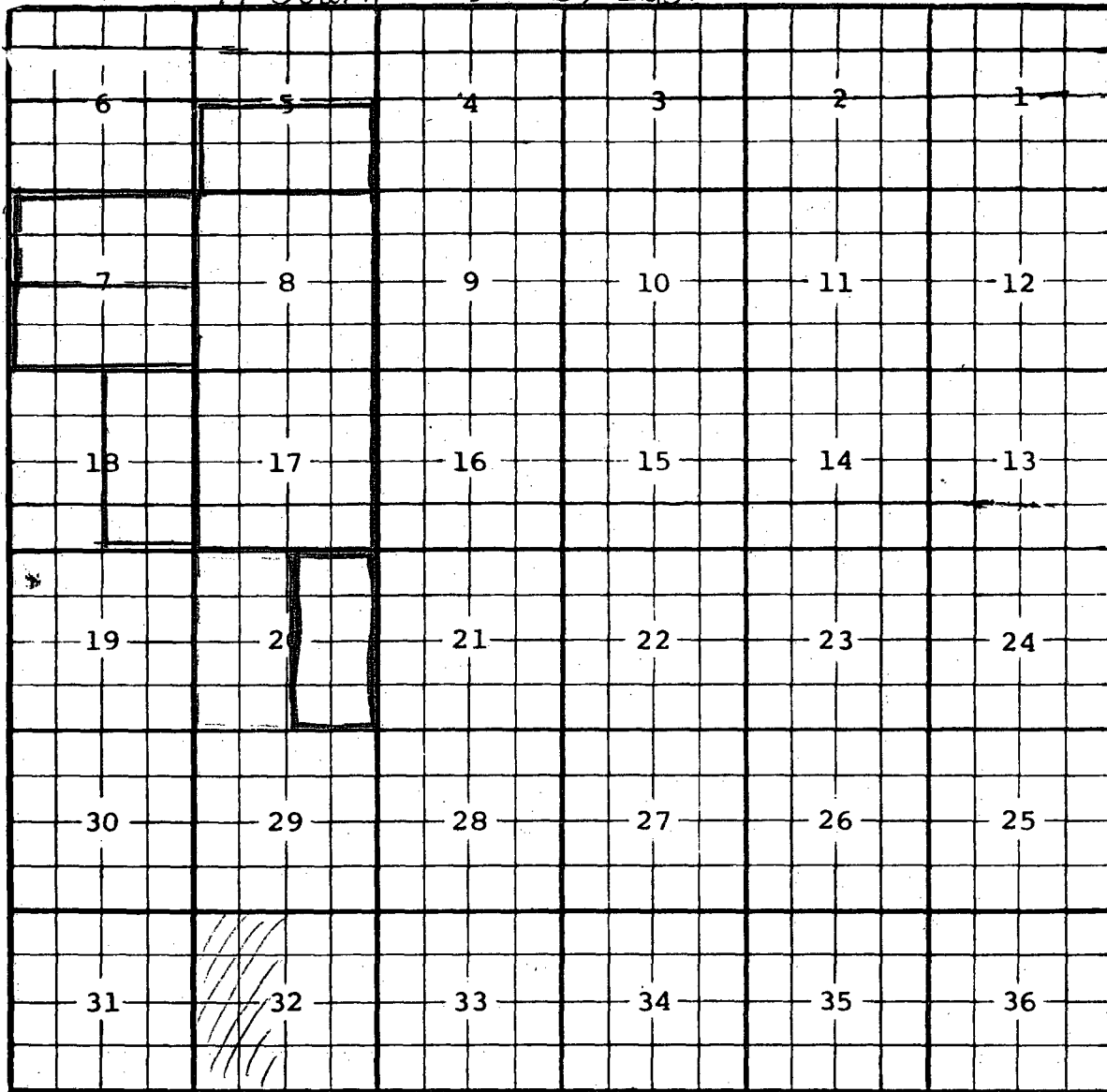
Sec : 32 Twp : 19S Rng : 27E Section Type : NORMAL

L 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A A	K 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A A	J 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A	I 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A A
M 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A	N 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A	O 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02	P 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02

PF01 HELP
PF07 BKWDPF02
PF08 FWDPF03 EXIT
PF09 PRINTPF04 GoTo
PF10 SDIVPF05
PF11PF06
PF12

county Eddy Pool McMillan - Upper Pennsylvanian Gas

TOWNSHIP 19 South Range 27 East NMPM



Description: Sec: 20 E/2 (R-7076 9-27-82)

Ext: All Sec. 8, All Sec. 17 (R-7372, 10-20-88) Ext: 1/2 Sec. 5 (R-7437, 2-6-84)

Ext: 1/2 Sec. 7 (R-8065, 10-31-85) Ext: 1/2 Sec. 18 (R-8431, 4-15-87)

Ext: 1/2 SEC 7 (R-8627, 4/1/88)

COUNTY Eddy

POOL

POOL McMillan-Morrow Gas

TOWNSHIP

TOWNSHIP 20 South

RANGE 27 East

NMPPM

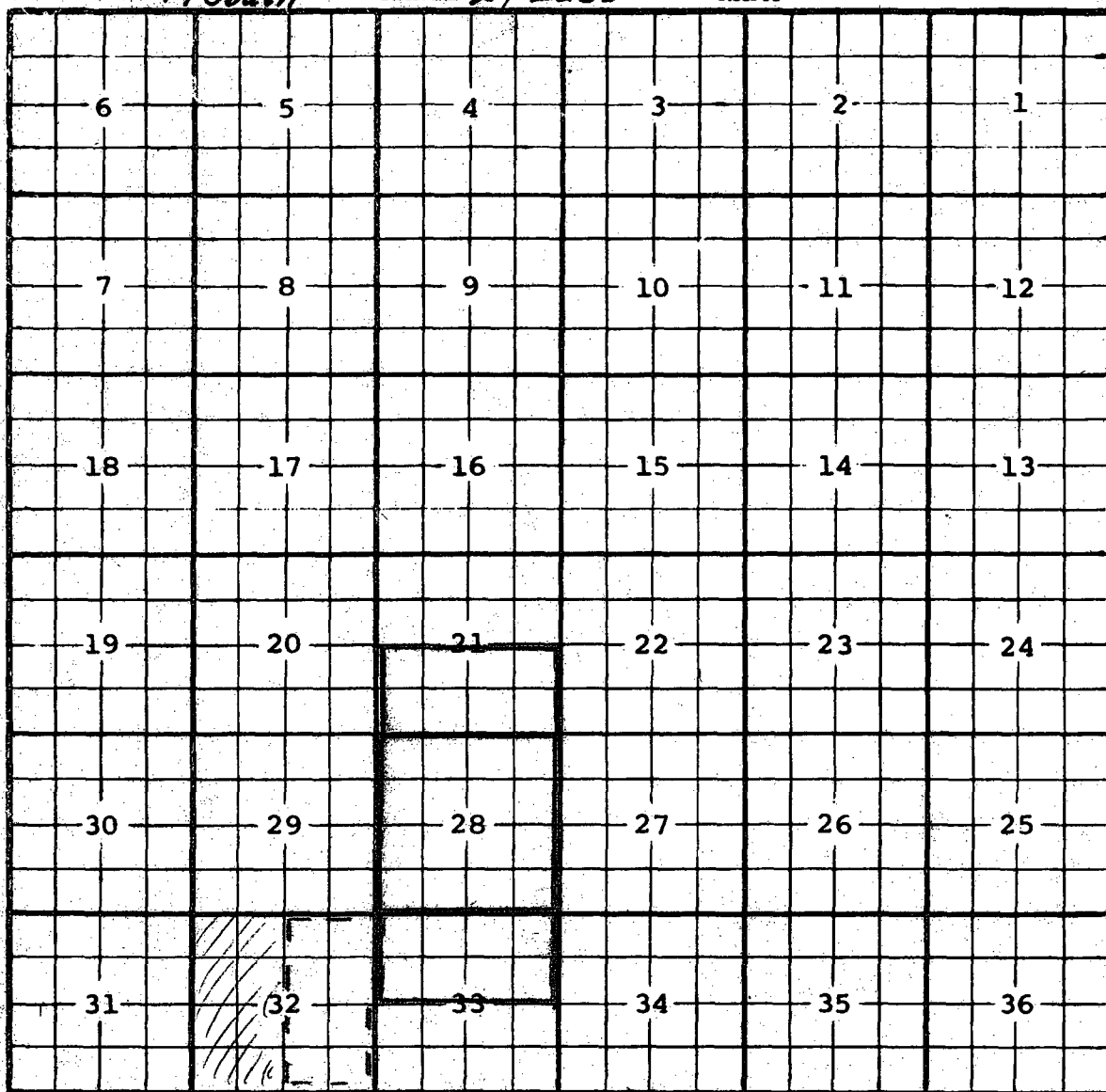
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Description: All Sec. 7 & 18 (R-2917, 6-8-65)

Ext: All Sec. 19(R-3681, 3-1-69)

COUNTY EddyPOOL North McMillan - Morrow GasTOWNSHIP 19 SouthRANGE 27 East

NMFM

Description: All Sec. 28 (R-3067, 6-1-66)Ext: $\frac{1}{2}$ Sec 21 (R-6698, 6-2-81) Ext: $\frac{1}{2}$ Sec. 33 (R-11921, 3-19-03)

County Eddy Pool Southwest McMillan-Atoka Gas

TOWNSHIP 19 South Range 27 East NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Description: $\frac{E}{2}$ Sec. 30 (R-10642, 12-28-93)

Sec : 32 Twp : 19S Rng : 27E Section Type : NORMAL

D 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02	C 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A	B 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02	A 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A
E 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A A	F 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A C	G 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02	H 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A
L 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A A	K 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A A	J 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A	I 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02 A A
M 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A	N 40.00 CS V05196 0002 DEVON SFS OPERATI 11/01/02 A A	O 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02	P 40.00 CS V05197 0001 DEVON SFS OPERATI 11/01/02