

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1501 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340		OGRID Number 017891	
Property Code 35623		Property Name VORTEC "22"	
Proposed Pool 1 BONE SPRING		Proposed Pool 2	

UL or lot no. P	Section 22	Township 24S	Range 29E	Lot Idn	Feet from the 330'	North/South line SOUTH	Feet from the 330'	East/West line EAST	County EDDY
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Proposed Bottom Hole Location If Different From Surface									
UL or lot no. N	Section 22	Township 24S	Range 29E	Lot Idn	Feet from the 660'	North/South line SOUTH	Feet from the 1650'	East/West line WEST	County EDDY

Additional Well Information

Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code P	Ground Level Elevation
Multiple NO	Proposed Depth MD10797 TVD7653	Formation BONE SPRING	Contractor PATTERSON	Spud Date WHEN APPROVED
Depth to Groundwater: GREATER THAN 50' LESS THAN 100'		Distance from nearest fresh water well .6 mi SW?		
Distance from nearest surface water PECOS RIVER .7 mi SOUTHWEST				
Liner: Synthetic ☒ 12 mils thick Clay ☐		Pit Volume: 18M bbls		
Closed-Loop System ☐		Drilling Method: Fresh Water ☒ Brine ☒ Direct Oil-based ☐ Gas/Air ☐		

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface.
17 1/2"	13 3/8"	48#	550'	350 Sx.	Surface
12 1/2"	9 5/8"	40#	2900'	1000 Sx.	Surface
8 1/2 & 7 7/8"	5 1/2"	17#	MD10,797' TVD7653'	900 Sx.	2900' from surface

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.

SEE ATTACHED SHEET FOR DETAILS

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by: BRYAN G. ARRANT	
Title: Agent		DISTRICT II GEOLOGIST	
E-mail Address: joejanica@valornet.com		Approval Date: APR 24 2006 Expiration Date: APR 24 2007	
Date: 04/21/06		Conditions of Approval Attached ☐	

DISTRICT I
1826 N. FRENCH DR., HOBBBS, NM 86240

State of New Mexico
Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1826 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
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 96473	Pool Name PIERCE CROSSING-BONE SPRING, East
Property Code	Property Name VORTEC 22	Well Number 1
OGRID No. 017891	Operator Name POGO PRODUCING COMPANY	Elevation 2917'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	24-S	29-E		330	SOUTH	330	EAST	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
N	22	24-S	29-E		660	SOUTH	1650	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
120			

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 that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division. <i>Joe T. Janica</i> Signature Date 04/21/06 Joe T. Janica Printed Name Agent
	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. APRIL 18, 2006 Date Surveyed REV: 4/21/06 Signature & Seal of Professional Surveyor GARY EIDSON 4/21/06 06-11-0672 Certificate No. GARY EIDSON 12641

POGO PRODUCING COMPANY

VORTEC "22" # 1

UNIT "P" SECTION 22

T24S-R29E EDDY CO. NM

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 550', drill surface hole with fresh water. Run and set 550' of 13 3/8" 48# H-40 ST&C casing. Cement with 150 Sx. of 35/65/6 Class "C" POZ/GEL, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx., circulate cement to surface.
3. Drill 12½" hole with brine water to a depth of 2900'. Run and set 2900' of 9 5/8" 40# J-55 ST&C casing. Cement with 800 Sx. of 35/65/6 POZ/GEL Class "C" cement + 5% Salt, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. circulate cement to surface, volumes may be changed after fluid caliper is run.
4. Drill 8½" hole to 8200'. run logs and set a cement plug for kick off point at 7225', drill 8½" hole through curve to 7730'. Reduce hole to 7 7/8" and drill to 7 7/8" and drill to 10,797'. Run and set 10,800'± of 5½" 17# N-80 BTC & LT&C casing. Cement with 900 Sx. of Class "H" Premium Plus cement + additives, mixed at 15.7 PPG, estimate top of cement 2900' from surface.

AFE VORTEC 22 # 1H.xls

MITCHELL ENGINEERING PROGRAMS

COPYRIGHT 1990 MITCHELL ENGINEERING, PO BOX 1492, GOLDEN, CO, 80402, USA (303) 273 3744

LONG'S METHOD OF SURVEY COMPUTATION**OBLIQUE CIRCULAR ARC INTERPOLATION**

0	MD OF INTERPOLATION DEPTH (feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

S D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

STATION A	STATION B
0.00	ft

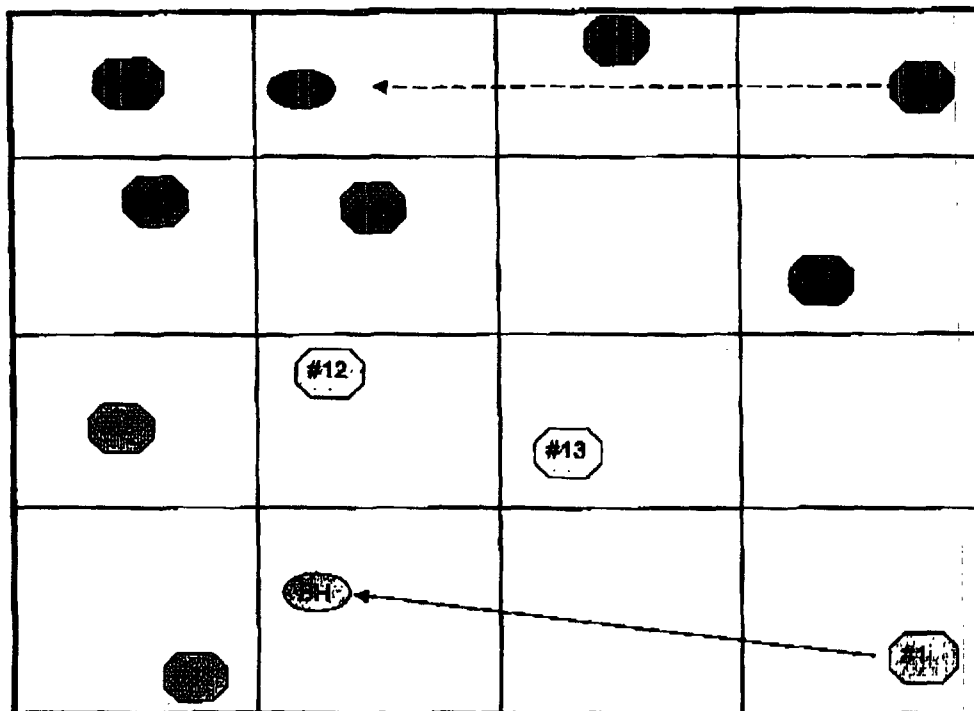
Calculator =

TABLE OF SURVEY STATIONS

STA #	AMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N/S ft	E/W ft	DLS deg/100FT
1	TIE POINT →	0	0	7225.00	7225.00	0.00	0.00	-
2	100	12	275.711	7325.00	7324.27	1.04	-10.36	12.00
3	100	24	275.711	7425.00	7419.20	4.11	-41.07	12.00
4	100	36	275.711	7525.00	7505.65	9.07	-90.74	12.00
5	100	48	275.711	7625.00	7579.83	15.72	-157.19	12.00
6	100	60	275.711	7725.00	7638.50	23.75	-237.55	12.00
7	100	72	275.711	7825.00	7679.10	32.83	-328.28	12.00
8	100	84	275.711	7925.00	7699.85	42.54	-425.43	12.00
9	50	91	275.711	7975.00	7702.03	47.51	-475.11	14.00
10	100	91	275.711	8075.00	7700.28	57.46	-574.60	0.00
11	100	91	275.711	8175.00	7698.54	67.41	-674.09	0.00
12	100	91	275.711	8275.00	7696.79	77.36	-773.67	0.00
13	100	91	275.711	8375.00	7695.05	87.31	-873.06	0.00
14	100	91	275.711	8475.00	7693.30	97.26	-972.55	0.00
15	100	91	275.711	8575.00	7691.56	107.20	-1072.04	0.00
16	100	91	275.711	8675.00	7689.81	117.15	-1171.53	0.00
17	100	91	275.711	8775.00	7688.07	127.10	-1271.02	0.00
18	100	91	275.711	8875.00	7686.32	137.05	-1370.50	0.00
19	100	91	275.711	8975.00	7684.58	147.00	-1469.99	0.00
20	100	91	275.711	9075.00	7682.83	156.95	-1569.46	0.00
21	100	91	275.711	9175.00	7681.09	166.90	-1668.97	0.00
22	100	91	275.711	9275.00	7679.34	176.85	-1768.46	0.00
23	100	91	275.711	9375.00	7677.60	186.79	-1867.95	0.00
24	100	91	275.711	9475.00	7675.85	196.74	-1967.44	0.00
25	100	91	275.711	9575.00	7674.10	206.69	-2066.92	0.00
26	100	91	275.711	9675.00	7672.36	216.64	-2166.41	0.00
27	100	91	275.711	9775.00	7670.61	226.59	-2265.90	0.00
28	100	91	275.711	9875.00	7668.87	236.54	-2365.39	0.00
29	100	91	275.711	9975.00	7667.12	246.49	-2464.88	0.00
30	100	91	275.711	10075.00	7665.38	256.44	-2564.37	0.00
31	100	91	275.711	10175.00	7663.63	266.39	-2663.86	0.00
32	100	91	275.711	10275.00	7661.89	276.33	-2763.34	0.00
33	100	91	275.711	10375.00	7660.14	286.28	-2862.83	0.00
34	100	91	275.711	10475.00	7658.40	296.23	-2962.32	0.00
35	100	91	275.711	10575.00	7656.65	306.18	-3061.81	0.00
36	100	91	275.711	10675.00	7654.91	316.13	-3161.30	0.00
37	100	91	275.711	10775.00	7653.16	326.08	-3260.79	0.00
38	22	91	275.711	10797.00	7652.78	328.27	-3282.68	0.00

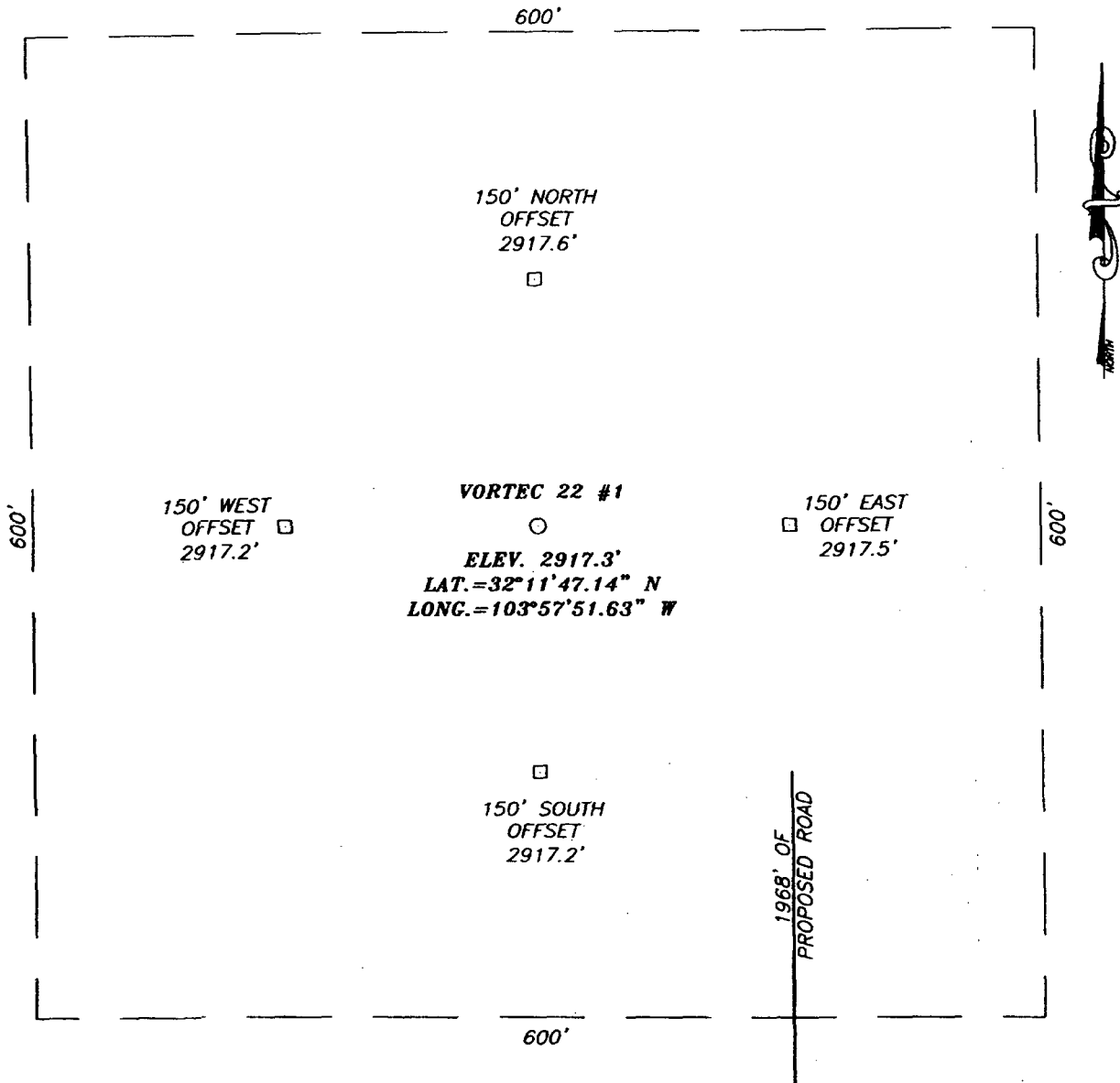
VORTEC 22 # 1 WELL GROUPINGS

Sec 22, T-24-S, R-29-E, Eddy County, New Mexico



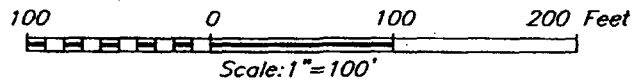
Well Name	Legal Location in 22	Depth and Strata	Current Prod Zone
VORTEC 22 # 1	330 FSL & 330 FEL	TD= 8200', HORIZONTAL	PROPOSED
Harroun 22 # 1	660 FNL & 660 FWL	TD= 5360' LCC sand	Delaware Production
Harroun 22 # 2	330 FNL & 1980 FEL	TD= 5500 LCC sand	Delaware Production
Harroun 22 # 3 H	660 FNL & 330 FEL	TD= 10864 Hrz 1st Bone Sd	1st Bone Production
Jackal 22 Fed # 1	990 FSL & 230 FWL	NOT DRILLED	NOT DRILLED
Jackal 22 Fed # 2	1710 FSL & 630 FWL	TD= 5450 G-3, LCC	Delaware Production
Riverbend Fed # 1	1650 FNL & 1650 FWL	TD= 5500 G-3	Delaware Production
Riverbend Fed # 5	2310 FNL & 860 FEL	TD= 5420 G-6, G-3, LCC	Delaware Production
Riverbend Fed # 9	1650 FNL & 330 FWL	TD= 7900 1st Bone Sd,	Delaware Production
Riverbend 22 Fd # 12	2310 FSL & 1750 FWL	NOT DRILLED	NOT DRILLED
Riverbend 22 Fd # 13	1650 FSL & 2310 FEL	NOT DRILLED	NOT DRILLED

SECTION 22, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. #720 AND
CO. RD. #746 (MCDONALD RD.) GO SOUTH &
SOUTHEAST ON CO. RD. #746 FOR APPROX. 5.5
MILES. TURN RIGHT AND GO EAST APPROX. 0.9
MILES TO A PROPOSED ROAD SURVEY. FOLLOW
ROAD SURVEY NORTH APPROX. 1968 FEET TO
THIS LOCATION.



POGO PRODUCING COMPANY

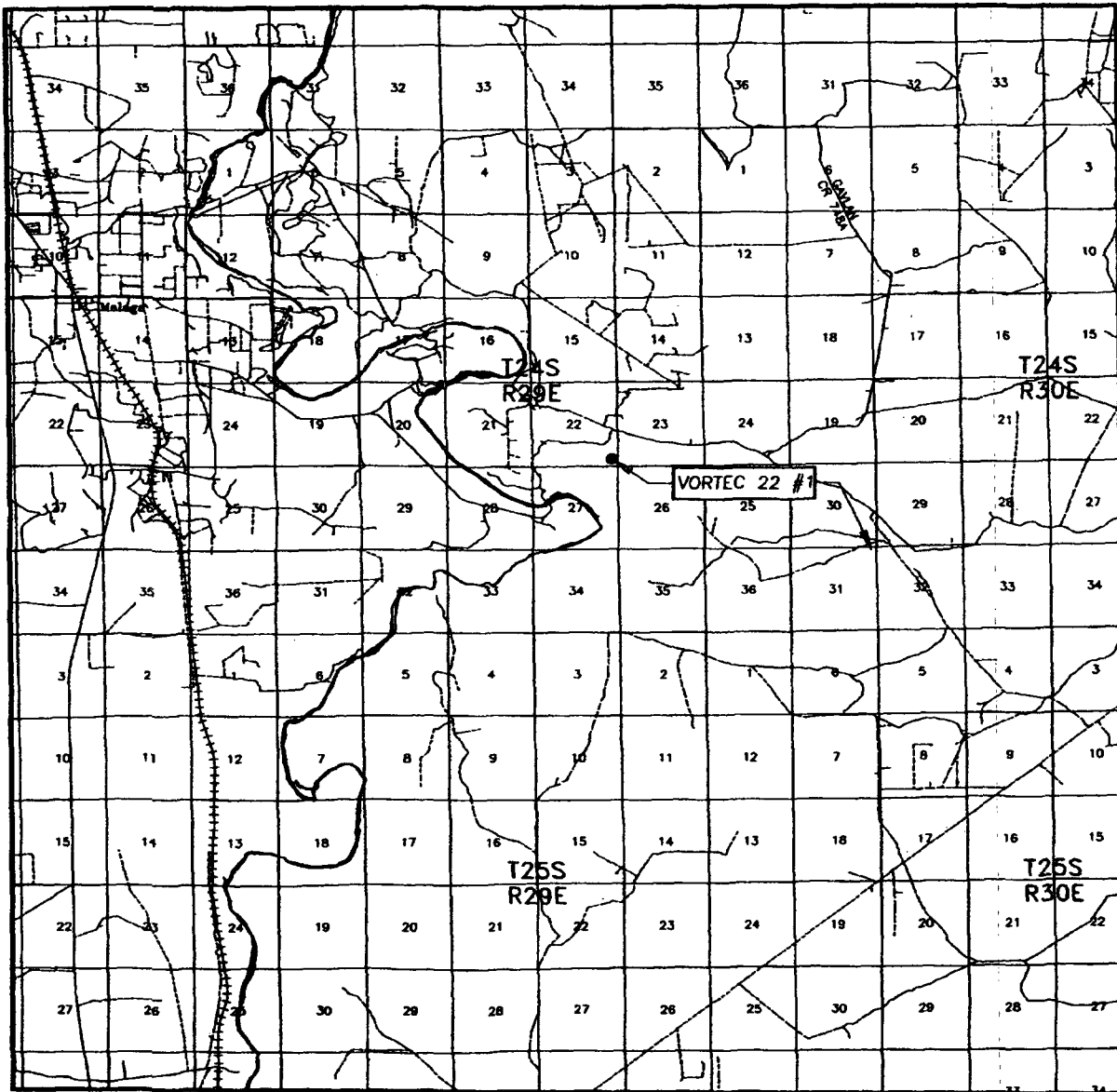
VORTEC 22 #1 WELL
LOCATED 330 FEET FROM THE SOUTH LINE
AND 330 FEET FROM THE EAST LINE OF SECTION 22,
TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 4/18/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.0672	Dr By: LA
Date: 4/20/06	Rev 1: N/A
Disk: CD#5	06110672
Scale: 1"=100'	



PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
MOORE, N.M. 88240
(505) 383-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 22 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

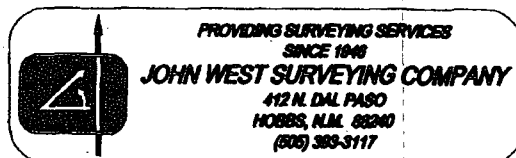
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 330' FSL & 330' FEL

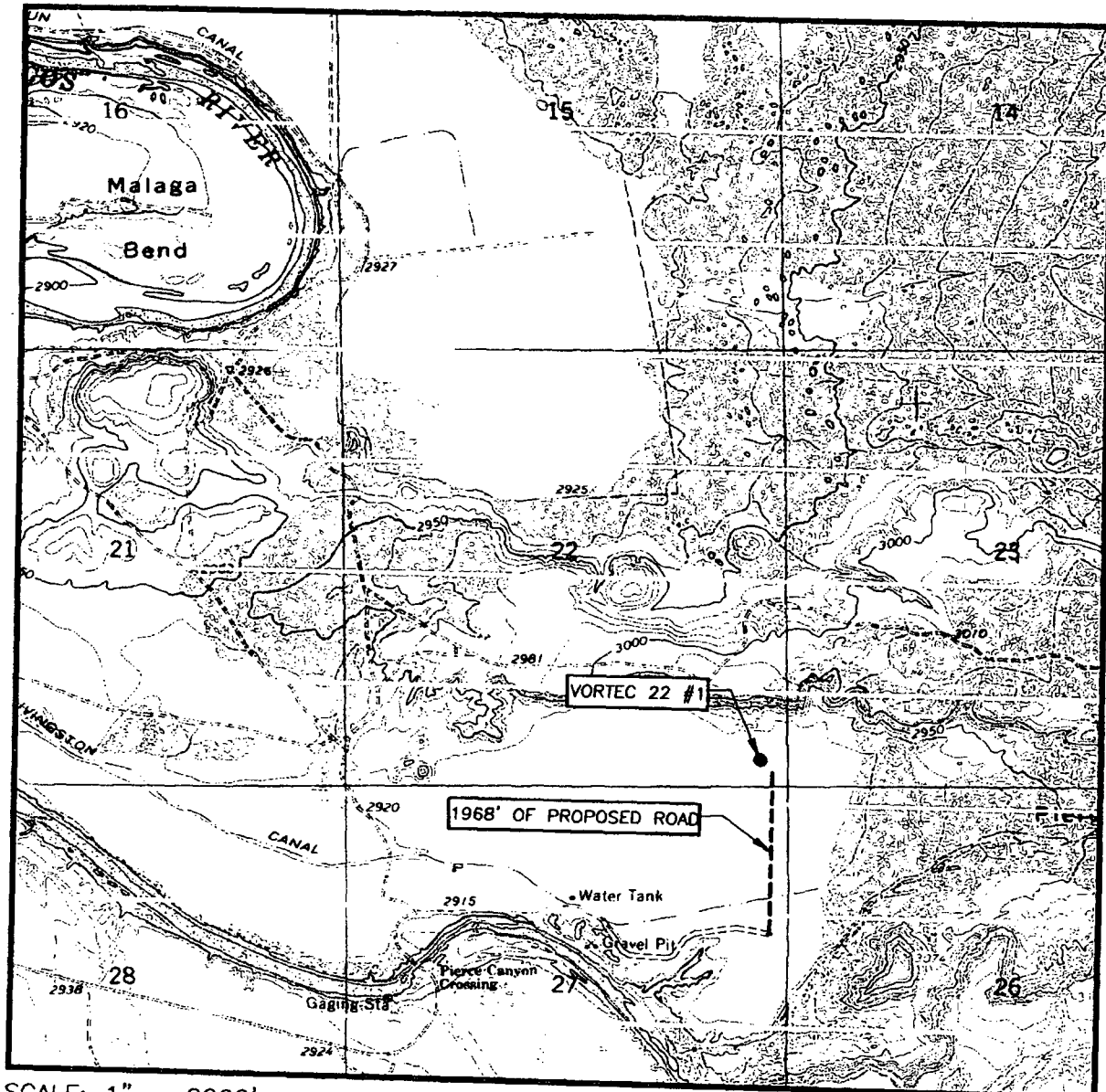
ELEVATION 2917'

OPERATOR POGO PRODUCING COMPANY

LEASE VORTEC 22



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
PIERCE CANYON, N.M. - 10'

SEC. 22 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

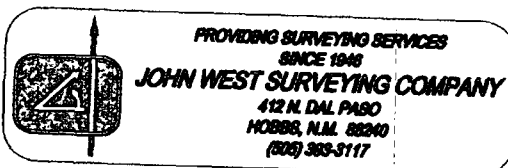
DESCRIPTION 330' FSL & 330' FEL

ELEVATION 2917'

OPERATOR POGO PRODUCING COMPANY

LEASE VORTEC 22

U.S.G.S. TOPOGRAPHIC MAP
PIERCE CANYON, N.M.



May 27, 2004

District I
1655 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-34817

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Vortec "22"

8. Well Number 1

9. OGRID Number

017891

10. Pool name or Wildcat

Undes, Pierce Crossing Bone Spring

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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ 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 P : 330 feet from the South line and 330 feet from the East line
Section 22 Township 24S Range 29E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2917

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. 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 ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: ☐

13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Spud & Set Surface Csg – MIRU Patterson #78. Spud well @ 22:30 hrs 04/28/06. Drld 17-1/2" hole to 555'. TD reached @ 14:00 hrs 04/29/06. Ran 13 jts 13-3/8 48# H-40 ST&C csg. Cmt'd w/ 275 sks 35:65:6 POZ C + 2% CaCl2 @ 12.8 ppg followed by 200 sks CI "C" + 2% CaCl2 @ 14.8 ppg. Plug down at 21:15 hrs 04/29/06. Circ 122 sks to surface. WOC 22 hrs. Make cut-off. Install WH. NU BOP's. Test BOP & csg to 800# for 30 mins ok.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Cathy Wright TITLE Sr. Eng Tech DATE 06/09/06Type or print name Cathy Wright E-mail address: wrightc@pogoproducing.com Telephone No. 432-685-8100

For State Use Only

FOR RECORDS ONLY

JUN 16 2006

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

Submit 3 Copies To Appropriate District Office
District I
1624 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-34817
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Vortec "22"
8. Well Number 1
9. OGRID Number 017891
10. Pool name or Wildcat Undes, Pierce Crossing Bone Spring

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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ 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 P : 330 feet from the South line and 330 feet from the East line
Section 22 Township 24S Range 29E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2917

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☒	
OTHER: ☐		OTHER: ☐	

13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

TD & Producing Csg - Drld 8-1/2" hole to 8100'. Logged well w/ Halliburton. Set 100 sk CI "H" Neat @ 15.6 cmt plug #1 @ 8100'. Set 135 sk CI "H" plug @ 7350'. Start MWD time drilling 8-1/2" - 7-7/8" hole to 10,852'. TD reached @ 21:00 hrs 05/31/06. Run 266 jts 5-1/2" 17# N-80 BTC & LTC csg. Cmt'd w/ 1400 sks CI "C" + add @ 14.1 ppg followed by 700 sks CI "C" + add @ 14.1 ppg. Plug down @ 14:00 hrs 06/03/06. Ran CBL 6/9/06. TOC @ 4190'.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Cathy Wright TITLE Sr. Eng Tech DATE 06/09/06

Type or print name Cathy Wright E-mail address: wrightc@pogoproducing.com Telephone No. 432-685-8100

For State Use Only

APPROVED BY: FOR RECORDS ONLY TITLE _____ DATE JUN 16 2006
Conditions of Approval (if any): _____

OPERATOR Pogo Producing
WELL/LEASE Vortec 22 #1
COUNTY Eddy Co., N.M.

078-0041

RECEIVED

JUN 15 2006

STATE OF NEW MEXICO
DEVIATION REPORT

MIDLAND

194	0.50	7,216	2.25
389	0.75	7,382	2.00
526	1.00	7,536	1.75
838	0.50	7,760	0.50
1,152	1.25	8,047	1.00
1,471	2.00		
1,628	1.25		
1,757	1.50		
1,917	1.00		
2,205	1.25		
2,492	1.75		
2,684	1.00		
2,811	2.25		
2,915	2.00		
3,031	0.75		
3,351	0.75		
3,671	1.00		
3,990	0.25		
4,312	0.25		
4,628	0.25		
4,947	0.25		
5,272	1.00		
5,585	0.75		
5,943	0.50		
6,257	1.25		
6,582	1.00		
6,896	1.25		

RECEIVED
JUL - 3 2006
COUNTY MEXIA

CONFIDENTIAL

BY: Steve Moore

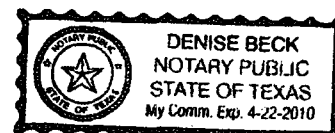
STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

June 9, 2006, by Steve

Denise Beck

Notary Public for Midland County, Texas
My Commission Expires: 04/22/2010



District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

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JUL - 3 2006

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34817	² Pool Code 50371	³ Pool Name Undes Pierce Crossing Bone Spring East
⁴ Property Code	⁵ Property Name Vortec "22"	⁶ Well Number 1
⁷ OGRID No. 017891	⁸ Operator Name Pogo Producing Company	⁹ Elevation 2917

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N P	22	24S	29E		330	South	330	East	Eddy

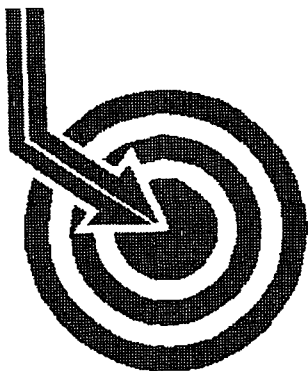
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	24S	29E		637.12	South	1652.67	West	Eddy

¹² Dedicated Acres 120	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

CONFIDENTIAL Project Area Producing Area 1652.67' 637.12' 330 330	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Cathy Wright</i> 06/27/06 Signature Date Cathy Wright Printed Name
	¹⁸ 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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number



Scientific Drilling

RECEIVED
JUL - 3 2006
GEO-ART MEDIA

CONFIDENTIAL

POGO

Field: Wildcat
Site: Eddy County, NM
Well: Vortex 22 #1
Wellpath: VH - Job #32K0506386
Survey: 05/13/06

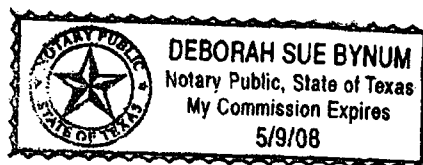
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Richard*.....Company Representative

Notorized this date 20th of June, 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: POGO
Field: Wildcat
Site: Eddy County, NM
Well: Vortex 22 #1
Wellpath: VH - Job #32K0506386

Date: 06/20/2006 Time: 19:55:01 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0:00N,0:00E,198.41Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.94	261.85	4899.22	-34.24	28.21	23.67	0.24	36.82	40.00
5000.00	0.87	260.31	4999.21	-33.51	27.96	22.11	0.07	35.65	38.34
5100.00	0.96	258.28	5099.19	-32.74	27.66	20.54	0.10	34.46	36.60
5200.00	0.93	254.52	5199.18	-31.86	27.28	18.94	0.07	33.21	34.77
5300.00	0.86	249.93	5299.17	-30.94	26.80	17.45	0.10	31.98	33.07
5400.00	0.68	243.61	5399.16	-30.06	26.28	16.22	0.20	30.88	31.68
5500.00	0.87	238.87	5499.15	-29.06	25.63	15.04	0.20	29.71	30.40
5600.00	0.83	240.72	5599.14	-27.95	24.88	13.75	0.05	28.43	28.93
5700.00	0.95	237.64	5699.13	-26.77	24.08	12.42	0.13	27.10	27.29
5800.00	1.04	228.87	5799.11	-25.35	23.04	11.04	0.18	25.55	25.60
5900.00	1.17	207.46	5899.09	-23.56	21.54	9.88	0.43	23.70	24.65
6000.00	1.11	206.48	5999.07	-21.59	19.76	8.98	0.06	21.71	24.44
6100.00	1.29	216.41	6099.05	-19.56	17.99	7.88	0.27	19.64	23.65
6200.00	1.31	204.06	6199.03	-17.35	16.04	6.75	0.28	17.40	22.81
6300.00	1.48	203.08	6299.00	-14.93	13.81	5.77	0.17	14.97	22.69
6400.00	1.47	194.59	6398.96	-12.36	11.38	4.94	0.22	12.41	23.48
6500.00	1.44	201.18	6498.93	-9.83	8.97	4.17	0.17	9.89	24.93
6600.00	1.29	200.46	6598.90	-7.45	6.74	3.32	0.15	7.51	26.22
6700.00	1.32	213.43	6698.88	-5.21	4.73	2.29	0.30	5.25	25.88
6800.00	1.34	214.63	6798.85	-2.97	2.80	0.99	0.03	2.97	19.52
6900.00	1.07	184.63	6898.83	-0.94	0.91	0.25	0.68	0.94	15.57
7000.00	1.06	199.81	6998.81	0.89	-0.89	-0.14	0.28	0.90	188.64
7100.00	1.74	198.97	7098.78	3.33	-3.20	-0.94	0.68	3.33	196.42
7200.00	1.92	194.05	7198.73	6.52	-6.26	-1.84	0.24	6.52	196.41
7300.00	2.47	201.59	7298.66	10.34	-9.89	-3.04	0.62	10.34	197.10
7400.00	2.44	202.04	7398.56	14.62	-13.86	-4.63	0.04	14.62	198.48
7440.00	2.69	194.05	7438.52	16.40	-15.56	-5.18	1.09	16.40	198.41

CONFIDENTIAL



Scientific Drilling International Survey Report

Company: POGO
Field: Wildcat
Site: Eddy County, NM
Well: Vortex 22 #1
Wellpath: VH - Job #32K0506386

Date: 06/20/2006 Time: 19:55:01 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,198.41Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 05/13/06
KSRG 0'-7440'
Company: Scientific Drilling Internatio
Tool: Keeper/Keeper Gyro

Start Date: 05/13/2006
Engineer: Madrid w/Signal
Tied-to: From Surface

CONFIDENTIAL

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClbD ft	ClbA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.36	231.22	100.00	0.26	-0.20	-0.24	0.36	0.31	231.22
200.00	0.35	305.49	200.00	0.44	-0.22	-0.74	0.43	0.77	253.68
300.00	0.62	337.71	299.99	-0.06	0.46	-1.19	0.37	1.28	291.17
400.00	0.89	348.03	399.99	-1.14	1.72	-1.56	0.30	2.32	317.85
500.00	0.99	0.84	499.97	-2.64	3.35	-1.71	0.23	3.76	332.97
600.00	1.00	359.36	599.96	-4.28	5.08	-1.70	0.03	5.36	341.46
700.00	0.88	357.62	699.94	-5.83	6.72	-1.75	0.12	6.94	345.44
800.00	0.96	6.09	799.93	-7.36	8.32	-1.69	0.16	8.49	348.53
900.00	0.95	358.49	899.92	-8.96	9.98	-1.62	0.13	10.11	350.77
1000.00	0.99	13.73	999.90	-10.60	11.65	-1.44	0.26	11.74	352.96
1100.00	1.07	10.83	1099.89	-12.39	13.41	-1.06	0.10	13.45	355.49
1200.00	1.32	6.97	1199.86	-14.44	15.47	-0.74	0.26	15.49	357.25
1300.00	1.55	358.17	1299.83	-16.84	17.96	-0.65	0.32	17.98	357.94
1400.00	1.76	352.13	1399.79	-19.49	20.84	-0.90	0.27	20.86	357.53
1500.00	1.65	349.09	1499.75	-22.12	23.77	-1.38	0.14	23.81	356.67
1600.00	1.44	351.85	1599.71	-24.50	26.43	-1.83	0.22	26.49	356.03
1700.00	0.56	356.57	1699.70	-26.07	28.16	-2.04	0.88	28.23	355.86
1800.00	0.43	13.00	1799.69	-26.90	29.01	-1.99	0.19	29.08	356.09
1900.00	0.67	36.59	1899.69	-27.83	29.85	-1.55	0.33	29.89	357.02
2000.00	1.12	41.93	1999.67	-29.28	31.05	-0.55	0.46	31.05	358.98
2100.00	1.35	45.47	2099.65	-31.23	32.60	0.94	0.24	32.61	1.66
2200.00	1.32	38.06	2199.62	-33.36	34.33	2.49	0.18	34.42	4.15
2300.00	1.38	54.93	2299.60	-35.41	35.93	4.19	0.40	36.17	6.65
2400.00	1.71	83.52	2399.56	-37.01	36.79	6.66	0.83	37.39	10.25
2500.00	1.70	81.68	2499.52	-38.30	37.17	9.61	0.06	38.39	14.49
2600.00	1.83	102.84	2599.47	-39.13	37.03	12.63	0.66	39.13	18.83
2700.00	1.90	123.32	2699.42	-38.86	35.77	15.57	0.67	39.01	23.53
2800.00	2.17	123.70	2799.36	-37.93	33.81	18.53	0.27	38.55	28.73
2900.00	1.79	124.73	2899.30	-36.99	31.87	21.39	0.38	38.38	33.87
3000.00	0.81	107.84	2999.27	-36.56	30.76	23.35	1.04	38.62	37.20
3100.00	0.48	93.60	3099.26	-36.67	30.52	24.44	0.36	39.10	38.69
3200.00	0.49	95.66	3199.26	-36.88	30.45	25.28	0.02	39.58	39.70
3300.00	0.50	102.59	3299.26	-37.01	30.31	26.13	0.06	40.02	40.77
3400.00	0.45	110.73	3399.25	-37.04	30.08	26.93	0.08	40.37	41.84
3500.00	0.45	99.38	3499.25	-37.09	29.87	27.68	0.09	40.73	42.82
3600.00	0.28	118.13	3599.25	-37.11	29.70	28.28	0.21	41.01	43.61
3700.00	0.22	116.48	3699.25	-37.04	29.49	28.67	0.06	41.13	44.19
3800.00	0.42	126.82	3799.24	-36.90	29.19	29.14	0.21	41.24	44.95
3900.00	0.15	134.59	3899.24	-36.72	28.88	29.52	0.27	41.30	45.63
4000.00	0.14	226.93	3999.24	-36.56	28.70	29.53	0.21	41.18	45.81
4100.00	0.25	275.45	4099.24	-36.40	28.64	29.22	0.19	40.92	45.58
4200.00	0.27	275.28	4199.24	-36.30	28.68	28.77	0.02	40.62	45.09
4300.00	0.28	266.98	4299.24	-36.16	28.69	28.29	0.04	40.29	44.60
4400.00	0.28	260.21	4399.24	-35.95	28.64	27.81	0.03	39.92	44.16
4500.00	0.32	278.45	4499.24	-35.79	28.64	27.29	0.10	39.56	43.62
4600.00	0.37	279.96	4599.24	-35.69	28.73	26.69	0.05	39.22	42.89
4700.00	0.38	261.74	4699.23	-35.50	28.74	26.05	0.12	38.79	42.19
4800.00	0.74	253.29	4799.23	-34.98	28.51	25.10	0.37	37.98	41.36



Scientific
Drilling

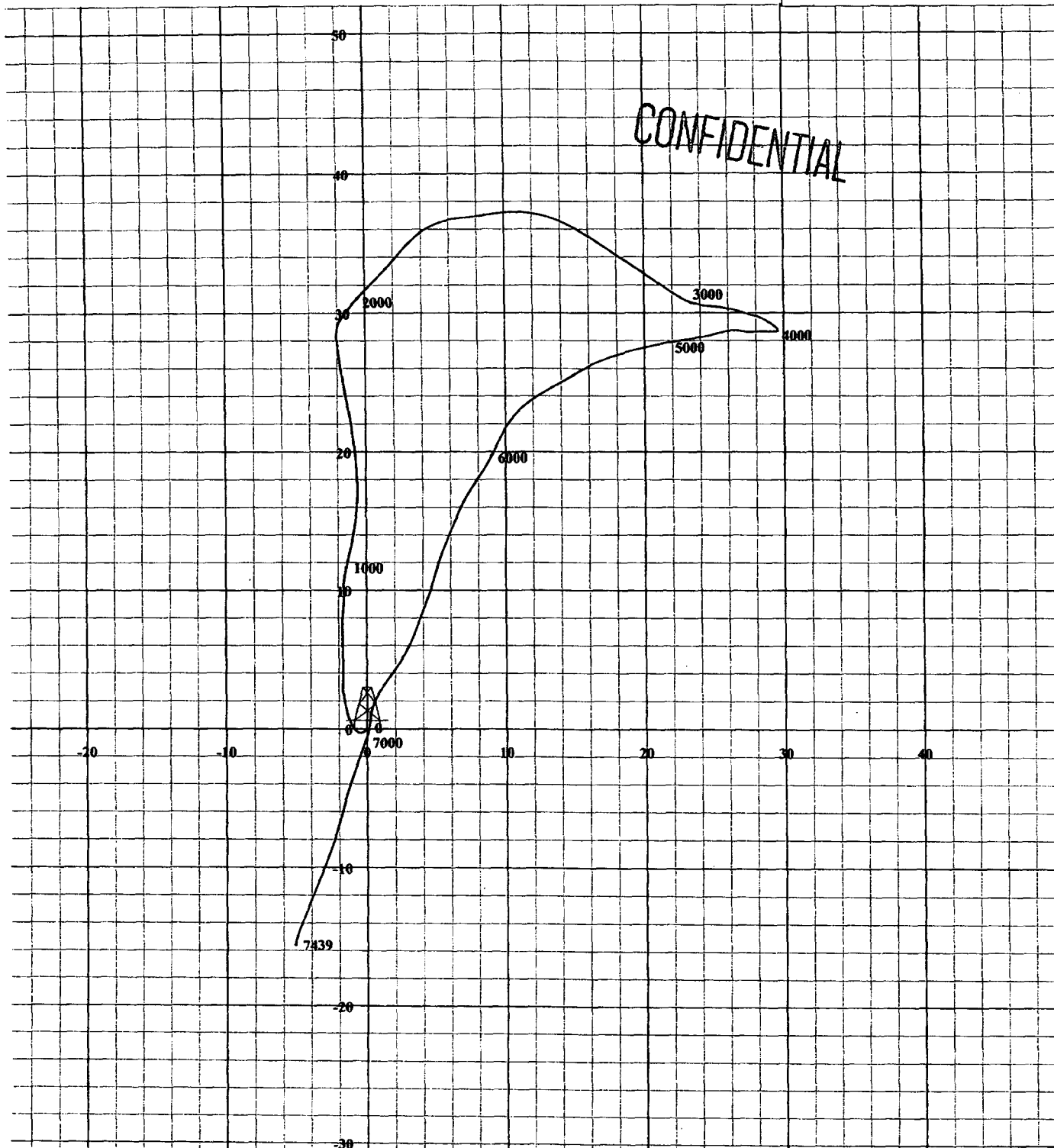
Field: Wildcat
Site: Eddy County, NM
Well: Vortex 22 #1
Wellpath: VH - Job #32K0506386
Survey: 05/13/06



Alignment to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0.0 T
Dip Angle: 0.00°
Date: 05/20/2006
Model: gpr2000

CONFIDENTIAL

South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised June 10, 2003

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☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Pogo Producing Company P. O. Box 10340 Midland, TX 79702-7340		² OGRID Number 017891
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-34817	⁵ Pool Name Undes., Pierce Crossing Bone Spring East	⁶ Pool Code 50371
⁷ Property Code	⁸ Property Name Vortec "22"	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	22	24S	29E		330	South	330	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	24S	29E		637.12	South	1652.67	West	Eddy

¹² Lse Code P	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date 06/22/06	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
034053	Plains Marketing #10 Desta Drive, Suite 200E Midland, TX 79705		O	P/22/T24S/R29E Vortec "22" #1 Battery
36785	Duke Energy Services P. O. Box 50020 Midland, TX 79710		G	P/22/T24S/R29E Vortec "22" #1 Battery
				CONFIDENTIAL

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 04/28/06	²⁶ Ready Date 06/22/06	²⁷ TD 10,852	²⁸ PBTD 10,792	²⁹ Perforations 8121-10,730	³⁰ DHC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
17-1/2	13-3/8	555	475 sks		
12-1/4	9-5/8	2915	1075 sks		
8-1/2 - 7-7/8	5-1/2	10,852	2100 sks		
	2-3/8	7206			

VI. Well Test Data

³⁵ Date New Oil 06/22/06	³⁶ Gas Delivery Date 06/22/06	³⁷ Test Date 06/28/06	³⁸ Test Length 24	³⁹ Tbg. Pressure 990	⁴⁰ Csg. Pressure 2175
⁴¹ Choke Size 24/64	⁴² Oil 538	⁴³ Water 544	⁴⁴ Gas 1733	⁴⁵ AOF	⁴⁶ Test Method Flowing

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature: *Cathy Wright*

Printed name: Cathy Wright
Title: Sr. Engineering Tech
E-mail Address: wrightc@pogoproducing.com
Date: 06/27/06 Phone: 432-685-8100

OIL CONSERVATION DIVISION

Approved by: **BRYAN G. ARANT**
Title: **DISTRICT II GEOLOGIST**
Approval Date: **JUL 03 2006**