

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 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-38982	² Pool Code 96403	³ Pool Name Wildcat AVALON; BONE SPRING
⁴ Property Code 38600	⁵ Property Name SNAPPING "2" STATE	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3240.6

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	2	26 S	31 E		330	SOUTH	1660	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

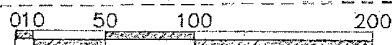
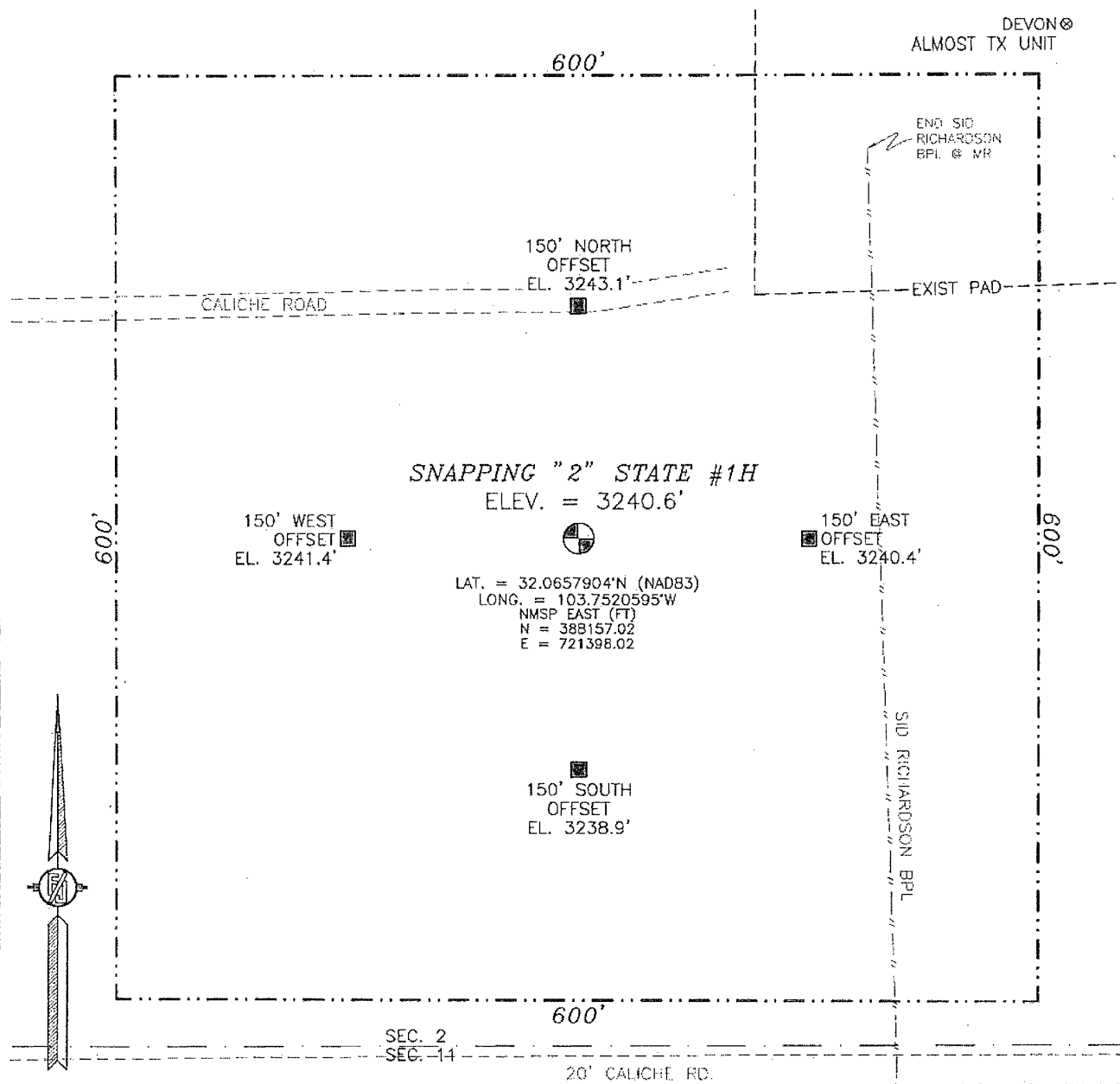
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	2	26 S	31 E		330	NORTH	1660	WEST	EDDY

¹² Dedicated Acres 160	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.

BOTTOM OF HOLE 1660' BOTTOM OF HOLE LAT. = 32.0785705°N LONG. = 103.7520777°W NMSP EAST (FT) N = 392806.13 E = 721367.35 NW CORNER SEC. 2 LAT. = 32.0794868°N LONG. = 103.7574356°W NMSP EAST (FT) N = 393123.30 E = 719706.10 SW CORNER SEC. 2 LAT. = 32.0648854°N LONG. = 103.7574141°W NMSP EAST (FT) N = 387818.91 E = 719741.07 SNAPPING "2" STATE #1H ELEV. = 3240.6' LAT. = 32.0657904°N (NAD83) LONG. = 103.7520595°W NMSP EAST (FT) N = 388157.02 E = 721398.02 SURFACE LOCATION	NE CORNER SEC. 2 LAT. = 32.0795016°N LONG. = 103.7402522°W NMSP EAST (FT) N = 393164.77 E = 725028.21 SE CORNER SEC. 2 (CALC) LAT. = 32.0648778°N LONG. = 103.7402879°W NMSP EAST (FT) N = 387844.87 E = 725046.38	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 released 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>Judy A. Barnett</i> Signature Regulatory Specialist Date Printed Name Judy A. Barnett 4/29/11
RECEIVED MAY 2 2011 NMOCD ARTESIA		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. MARCH 22 2011 Date of Survey NEW MEXICO JULIO F. JARAMILLO Surveyor Signature and Seal of Professional Surveyor Certificate Number FILAMON F. JARAMILLO, PLS 12797 SURVEY NO. 422

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HWY 128 AND CR #1 (ORLA RD) GO SOUTH ON CR #1
10.0 MILES TURN RIGHT ON CALICHE ROAD (ROSS LANE) AND GO
WEST 4.8 MILES TURN RIGHT AND GO NORTH 0.1 MILE TURN RIGHT
AND GO EAST 0.32 MILES, LOCATION IS 150' ON THE RIGHT (SOUTH).

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE #1H

LOCATED 330 FT. FROM THE SOUTH LINE
AND 1660 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

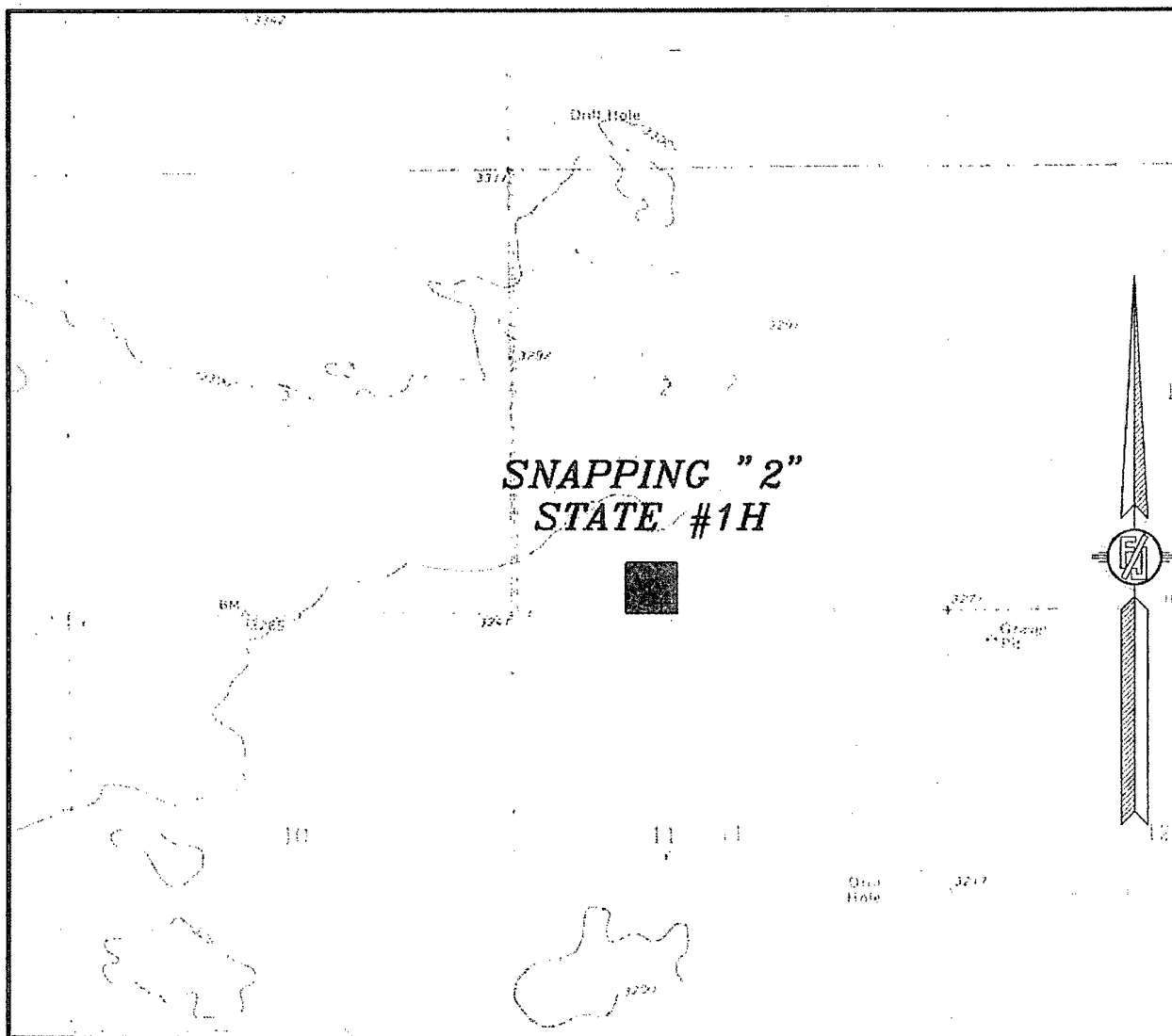
SURVEY NO. 422

MARCH 22, 2011

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 857-5830 CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
PHANTOM BANKS
PADUCA BREAKS WEST

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE #1H

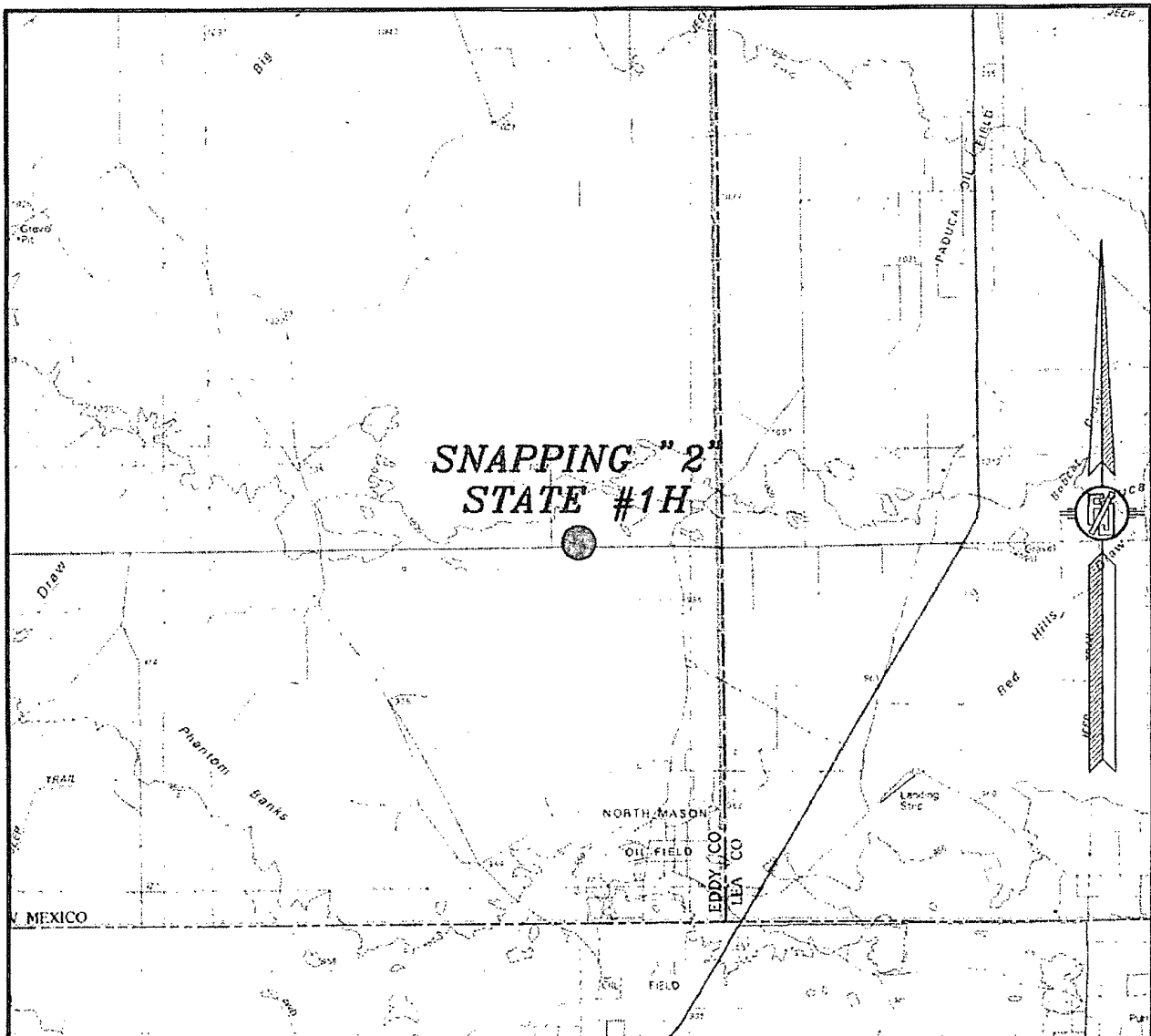
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SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 22, 2011

SURVEY NO. 422

MADRON SURVEYING, INC. 501 SOUTH CANA CARLSBAD, NEW MEXICO
(505) 887-5539

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

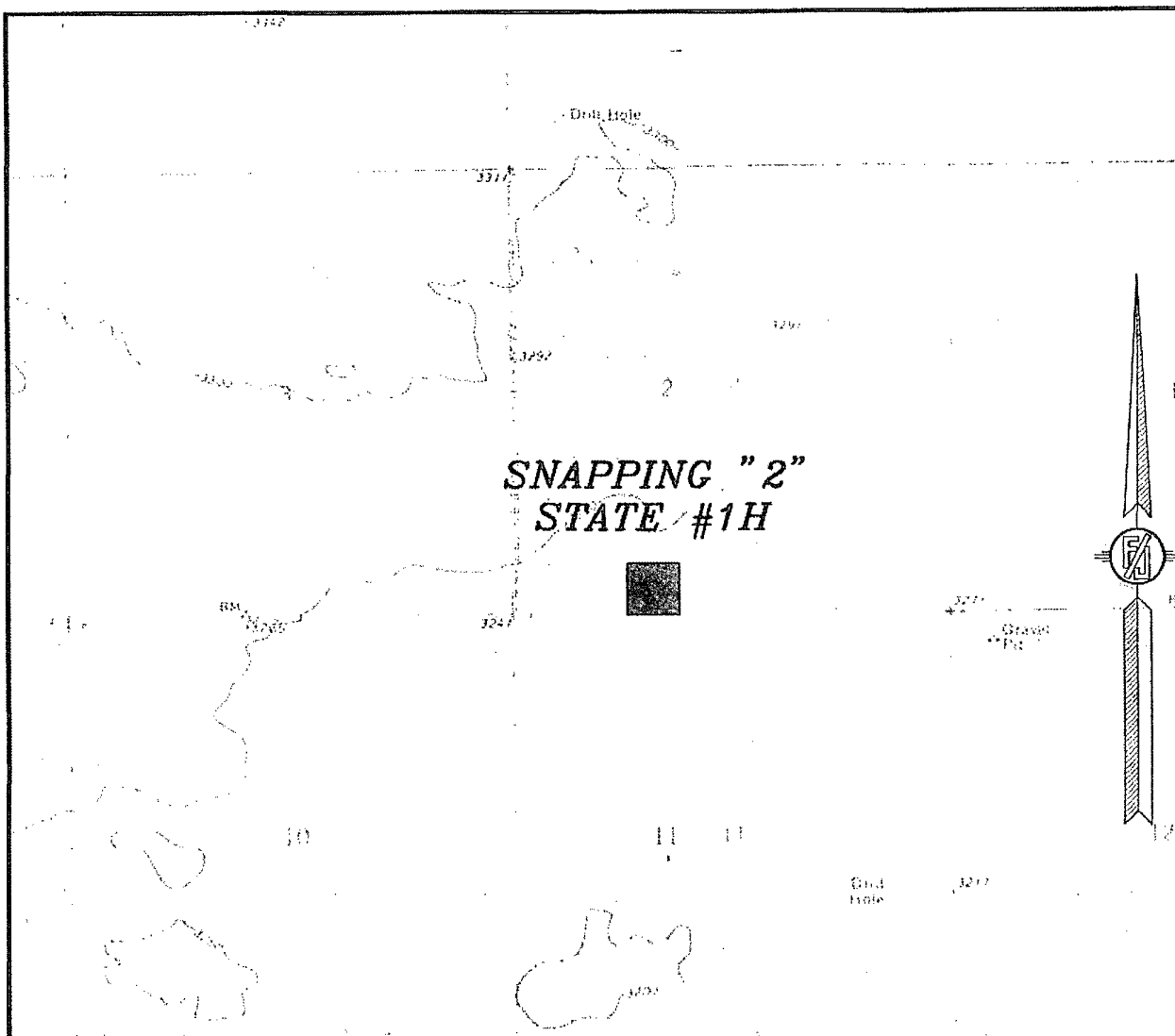
DEVON ENERGY PRODUCTION COMPANY, L.P.
SNAPPING "2" STATE #1H
LOCATED 330 FT. FROM THE SOUTH LINE
AND 1660 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 22, 2011

SURVEY NO. 422

MADRON SURVEYING, INC. 201 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5530

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
PHANTOM BANKS
PACUCA BREAKS WEST

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
SNAPPING "2" STATE #1H
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RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

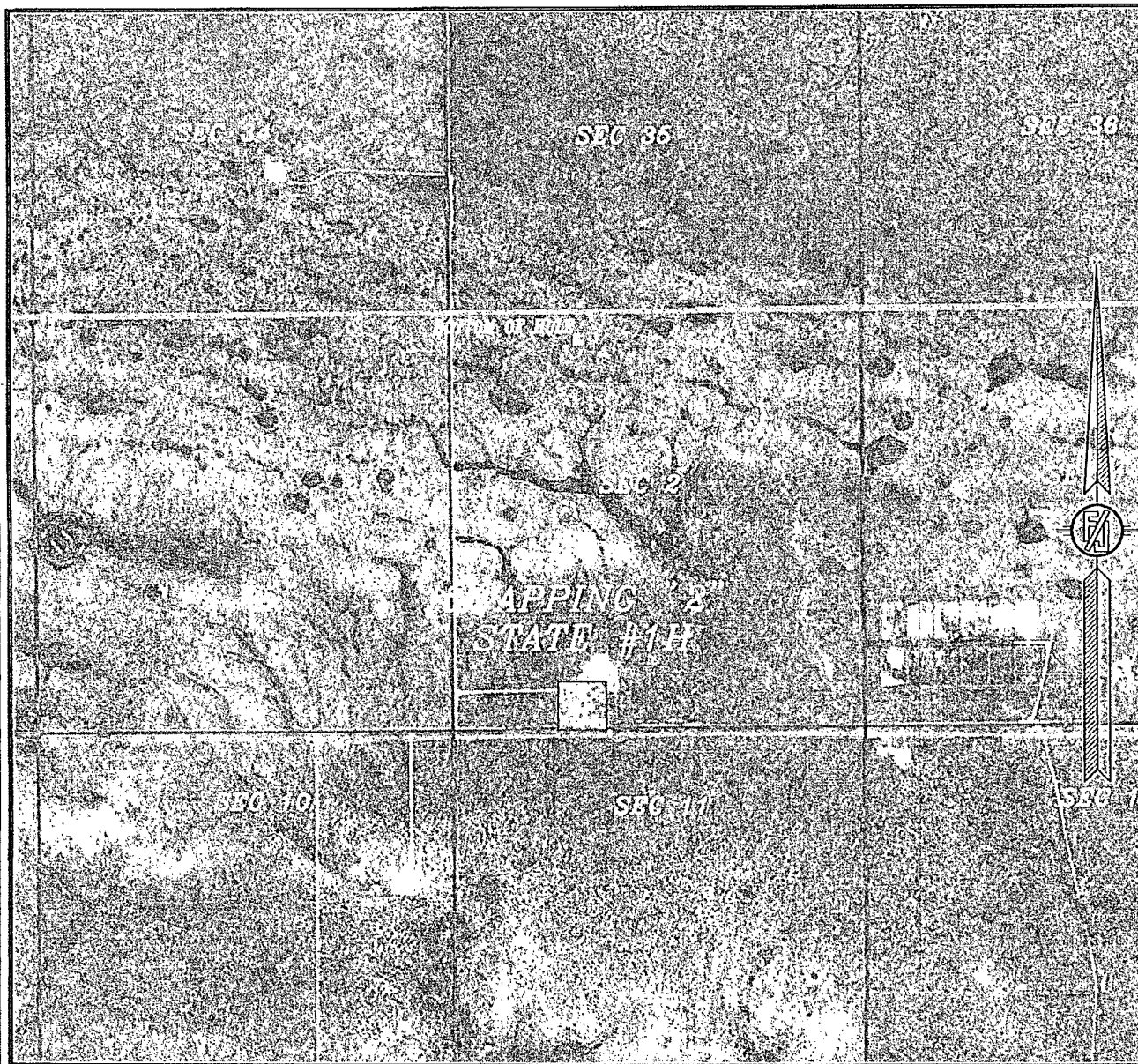
MARCH 22, 2011

SURVEY NO. 422

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 887-5830

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

DEVON ENERGY PRODUCTION COMPANY, L.P.

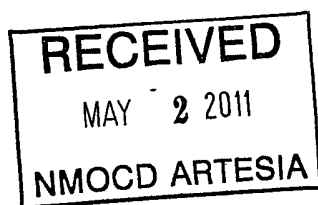
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RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 22, 2011

SURVEY NO. 422

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 687-5539



Devon Energy, Inc.

Eddy County, NM (NAD 83)

Snapping 2 State

#1H

OH

Plan: Plan #1

PathFinder X&Y Report

27 April, 2011



A Schlumberger Company



Pathfinder
PathFinder X&Y Report

PATHFINDER
A Schlumberger Company

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Site Snapping 2 State
Project:	Eddy County, NM (NAD 83)	TVD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Site:	Snapping 2 State	MD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	1 Smith Database

Project	Eddy County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Snapping 2 State		
Site Position:		Northing:	388,157.02 ft
From: Map		Easting:	721,398.02 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32.065790
		Longitude:	-103.752060
		Grid Convergence:	0.31 °

Well	#1H					
Well Position	+N/-S	0.00 ft	Northing:	388,157.02 ft	Latitude:	32.065790
	+E/-W	0.00 ft	Easting:	721,398.02 ft	Longitude:	-103.752060
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,240.60 ft	

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/04/27	7.67	60.01	48,515

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.62

Survey Tool Program		Date 2011/04/27		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,443.35	Plan #1 (OH)	Pathfinder	Pathfinder MWD



Pathfinder
PathFinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Site Snapping 2 State
Project:	Eddy County, NM (NAD 83)	TVD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Site:	Snapping 2 State	MD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	1 Smith Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0.00	0.00	0.00	0.00	-3,266.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
100.00	0.00	0.00	100.00	-3,166.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
200.00	0.00	0.00	200.00	-3,066.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
300.00	0.00	0.00	300.00	-2,966.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
400.00	0.00	0.00	400.00	-2,866.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
500.00	0.00	0.00	500.00	-2,766.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
600.00	0.00	0.00	600.00	-2,666.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
700.00	0.00	0.00	700.00	-2,566.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
800.00	0.00	0.00	800.00	-2,466.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
900.00	0.00	0.00	900.00	-2,366.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,000.00	0.00	0.00	1,000.00	-2,266.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,100.00	0.00	0.00	1,100.00	-2,166.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,200.00	0.00	0.00	1,200.00	-2,066.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,300.00	0.00	0.00	1,300.00	-1,966.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,400.00	0.00	0.00	1,400.00	-1,866.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,500.00	0.00	0.00	1,500.00	-1,766.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,600.00	0.00	0.00	1,600.00	-1,666.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,700.00	0.00	0.00	1,700.00	-1,566.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,800.00	0.00	0.00	1,800.00	-1,466.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
1,900.00	0.00	0.00	1,900.00	-1,366.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,000.00	0.00	0.00	2,000.00	-1,266.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,100.00	0.00	0.00	2,100.00	-1,166.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,200.00	0.00	0.00	2,200.00	-1,066.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,300.00	0.00	0.00	2,300.00	-966.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,400.00	0.00	0.00	2,400.00	-866.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,500.00	0.00	0.00	2,500.00	-766.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
2,600.00	0.00	0.00	2,600.00	-666.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02	



Pathfinder
PathFinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County, NM (NAD 83)
Site: Snapping 2 State
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Site Snapping 2 State
TVD Reference: KB=26' @ 3266.60ft (Original Well Elev)
MD Reference: KB=26' @ 3266.60ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 1 Smith Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-566.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02
2,800.00	0.00	0.00	2,800.00	-466.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02
2,900.00	0.00	0.00	2,900.00	-366.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,000.00	0.00	0.00	3,000.00	-266.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,100.00	0.00	0.00	3,100.00	-166.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,200.00	0.00	0.00	3,200.00	-66.60	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,300.00	0.00	0.00	3,300.00	33.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,400.00	0.00	0.00	3,400.00	133.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,500.00	0.00	0.00	3,500.00	233.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,600.00	0.00	0.00	3,600.00	333.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,700.00	0.00	0.00	3,700.00	433.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,800.00	0.00	0.00	3,800.00	533.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
3,900.00	0.00	0.00	3,900.00	633.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,000.00	0.00	0.00	4,000.00	733.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,100.00	0.00	0.00	4,100.00	833.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,200.00	0.00	0.00	4,200.00	933.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,300.00	0.00	0.00	4,300.00	1,033.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,400.00	0.00	0.00	4,400.00	1,133.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,500.00	0.00	0.00	4,500.00	1,233.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,600.00	0.00	0.00	4,600.00	1,333.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,700.00	0.00	0.00	4,700.00	1,433.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,800.00	0.00	0.00	4,800.00	1,533.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
4,900.00	0.00	0.00	4,900.00	1,633.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
5,000.00	0.00	0.00	5,000.00	1,733.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
5,100.00	0.00	0.00	5,100.00	1,833.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
5,200.00	0.00	0.00	5,200.00	1,933.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02
5,300.00	0.00	0.00	5,300.00	2,033.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02



Pathfinder PathFinder X&Y Report

PATHFINDER
A Schlumberger Company

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5,400.00	0.00	0.00	5,400.00	2,133.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
5,500.00	0.00	0.00	5,500.00	2,233.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
5,600.00	0.00	0.00	5,600.00	2,333.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
5,700.00	0.00	0.00	5,700.00	2,433.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
5,800.00	0.00	0.00	5,800.00	2,533.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
5,900.00	0.00	0.00	5,900.00	2,633.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,000.00	0.00	0.00	6,000.00	2,733.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,100.00	0.00	0.00	6,100.00	2,833.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,200.00	0.00	0.00	6,200.00	2,933.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,300.00	0.00	0.00	6,300.00	3,033.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,400.00	0.00	0.00	6,400.00	3,133.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,500.00	0.00	0.00	6,500.00	3,233.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,600.00	0.00	0.00	6,600.00	3,333.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,700.00	0.00	0.00	6,700.00	3,433.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,800.00	0.00	0.00	6,800.00	3,533.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
6,900.00	0.00	0.00	6,900.00	3,633.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,000.00	0.00	0.00	7,000.00	3,733.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,100.00	0.00	0.00	7,100.00	3,833.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,200.00	0.00	0.00	7,200.00	3,933.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,300.00	0.00	0.00	7,300.00	4,033.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,400.00	0.00	0.00	7,400.00	4,133.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,500.00	0.00	0.00	7,500.00	4,233.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,600.00	0.00	0.00	7,600.00	4,333.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,700.00	0.00	0.00	7,700.00	4,433.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,800.00	0.00	0.00	7,800.00	4,533.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
7,900.00	0.00	0.00	7,900.00	4,633.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
8,000.00	0.00	0.00	8,000.00	4,733.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	



Pathfinder
PathFinder X&Y Report



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Site:	Snapping 2 State	MD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	1 Smith Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
8,100.00	0.00	0.00	8,100.00	4,833.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
8,200.00	0.00	0.00	8,200.00	4,933.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
8,300.00	0.00	0.00	8,300.00	5,033.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
8,400.00	0.00	0.00	8,400.00	5,133.40	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
8,467.05	0.00	0.00	8,467.05	5,200.45	0.00	0.00	0.00	0.00	388,157.02	721,398.02	
8,500.00	3.30	359.62	8,499.98	5,233.38	0.95	-0.01	0.95	10.00	388,157.97	721,398.01	
8,550.00	8.30	359.62	8,549.71	5,283.11	5.99	-0.04	5.99	10.00	388,163.01	721,397.98	
8,600.00	13.30	359.62	8,598.81	5,332.21	15.36	-0.10	15.36	10.00	388,172.38	721,397.92	
8,650.00	18.30	359.62	8,646.91	5,380.31	28.96	-0.19	28.96	10.00	388,185.98	721,397.83	
8,700.00	23.30	359.62	8,693.63	5,427.03	46.71	-0.31	46.71	10.00	388,203.73	721,397.71	
8,750.00	28.30	359.62	8,738.64	5,472.04	68.46	-0.45	68.46	10.00	388,225.48	721,397.57	
8,800.00	33.30	359.62	8,781.58	5,514.98	94.05	-0.62	94.05	10.00	388,251.07	721,397.40	
8,850.00	38.30	359.62	8,822.12	5,555.52	123.28	-0.81	123.28	10.00	388,280.30	721,397.21	
8,900.00	43.30	359.62	8,859.96	5,593.36	155.94	-1.03	155.94	10.00	388,312.96	721,396.99	
8,950.00	48.30	359.62	8,894.81	5,628.21	191.77	-1.27	191.77	10.00	388,348.79	721,396.75	
9,000.00	53.30	359.62	8,926.40	5,659.80	230.50	-1.52	230.50	10.00	388,387.52	721,396.50	
9,050.00	58.30	359.62	8,954.50	5,687.90	271.84	-1.79	271.84	10.00	388,428.86	721,396.23	
9,100.00	63.30	359.62	8,978.89	5,712.29	315.47	-2.08	315.47	10.00	388,472.49	721,395.94	
9,150.00	68.30	359.62	8,999.38	5,732.78	361.05	-2.38	361.06	10.00	388,518.07	721,395.64	
9,200.00	73.30	359.62	9,015.83	5,749.23	408.26	-2.69	408.27	10.00	388,565.28	721,395.33	
9,250.00	78.30	359.62	9,028.09	5,761.49	456.71	-3.01	456.72	10.00	388,613.73	721,395.01	
9,300.00	83.30	359.62	9,036.09	5,769.49	506.05	-3.34	506.06	10.00	388,663.07	721,394.68	
9,350.00	88.30	359.62	9,039.75	5,773.15	555.90	-3.67	555.91	10.00	388,712.92	721,394.35	
9,364.24	89.72	359.62	9,040.00	5,773.40	570.13	-3.76	570.15	10.00	388,727.15	721,394.26	
9,400.00	89.72	359.62	9,040.18	5,773.58	605.89	-4.00	605.91	0.00	388,762.91	721,394.02	
9,500.00	89.72	359.62	9,040.67	5,774.07	705.89	-4.66	705.91	0.00	388,862.91	721,393.36	
9,600.00	89.72	359.62	9,041.16	5,774.56	805.89	-5.32	805.91	0.00	388,962.91	721,392.70	



Pathfinder PathFinder X&Y Report



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Site:	Snapping 2 State	MD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	1 Smith Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,700.00	89.72	359.62	9,041.65	5,775.05	905.88	-5.98	905.90	0.00	389,062.90	721,392.04
9,800.00	89.72	359.62	9,042.14	5,775.54	1,005.88	-6.64	1,005.90	0.00	389,162.90	721,391.38
9,900.00	89.72	359.62	9,042.63	5,776.03	1,105.88	-7.30	1,105.90	0.00	389,262.90	721,390.72
10,000.00	89.72	359.62	9,043.12	5,776.52	1,205.87	-7.96	1,205.90	0.00	389,362.89	721,390.06
10,100.00	89.72	359.62	9,043.61	5,777.01	1,305.87	-8.61	1,305.90	0.00	389,462.89	721,389.41
10,200.00	89.72	359.62	9,044.10	5,777.50	1,405.87	-9.27	1,405.90	0.00	389,562.89	721,388.75
10,300.00	89.72	359.62	9,044.59	5,777.99	1,505.86	-9.93	1,505.90	0.00	389,662.88	721,388.09
10,400.00	89.72	359.62	9,045.08	5,778.48	1,605.86	-10.59	1,605.90	0.00	389,762.88	721,387.43
10,500.00	89.72	359.62	9,045.57	5,778.97	1,705.86	-11.25	1,705.89	0.00	389,862.88	721,386.77
10,600.00	89.72	359.62	9,046.06	5,779.46	1,805.85	-11.91	1,805.89	0.00	389,962.87	721,386.11
10,700.00	89.72	359.62	9,046.55	5,779.95	1,905.85	-12.57	1,905.89	0.00	390,062.87	721,385.45
10,800.00	89.72	359.62	9,047.04	5,780.44	2,005.85	-13.23	2,005.89	0.00	390,162.87	721,384.79
10,900.00	89.72	359.62	9,047.53	5,780.93	2,105.84	-13.89	2,105.89	0.00	390,262.86	721,384.13
11,000.00	89.72	359.62	9,048.02	5,781.42	2,205.84	-14.55	2,205.89	0.00	390,362.86	721,383.47
11,100.00	89.72	359.62	9,048.51	5,781.91	2,305.84	-15.21	2,305.89	0.00	390,462.86	721,382.81
11,200.00	89.72	359.62	9,049.00	5,782.40	2,405.83	-15.87	2,405.89	0.00	390,562.85	721,382.15
11,300.00	89.72	359.62	9,049.49	5,782.89	2,505.83	-16.53	2,505.89	0.00	390,662.85	721,381.49
11,400.00	89.72	359.62	9,049.98	5,783.38	2,605.83	-17.19	2,605.88	0.00	390,762.85	721,380.83
11,500.00	89.72	359.62	9,050.47	5,783.87	2,705.82	-17.85	2,705.88	0.00	390,862.84	721,380.17
11,600.00	89.72	359.62	9,050.96	5,784.36	2,805.82	-18.51	2,805.88	0.00	390,962.84	721,379.51
11,700.00	89.72	359.62	9,051.45	5,784.85	2,905.82	-19.17	2,905.88	0.00	391,062.84	721,378.85
11,800.00	89.72	359.62	9,051.94	5,785.34	3,005.81	-19.83	3,005.88	0.00	391,162.83	721,378.19
11,900.00	89.72	359.62	9,052.43	5,785.83	3,105.81	-20.49	3,105.88	0.00	391,262.83	721,377.53
12,000.00	89.72	359.62	9,052.92	5,786.32	3,205.81	-21.15	3,205.88	0.00	391,362.83	721,376.87
12,100.00	89.72	359.62	9,053.41	5,786.81	3,305.80	-21.81	3,305.88	0.00	391,462.82	721,376.21
12,200.00	89.72	359.62	9,053.90	5,787.30	3,405.80	-22.47	3,405.87	0.00	391,562.82	721,375.55
12,300.00	89.72	359.62	9,054.39	5,787.79	3,505.80	-23.13	3,505.87	0.00	391,662.82	721,374.89



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Site:	Snapping 2 State	MD Reference:	KB=26' @ 3266.60ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	1 Smith Database

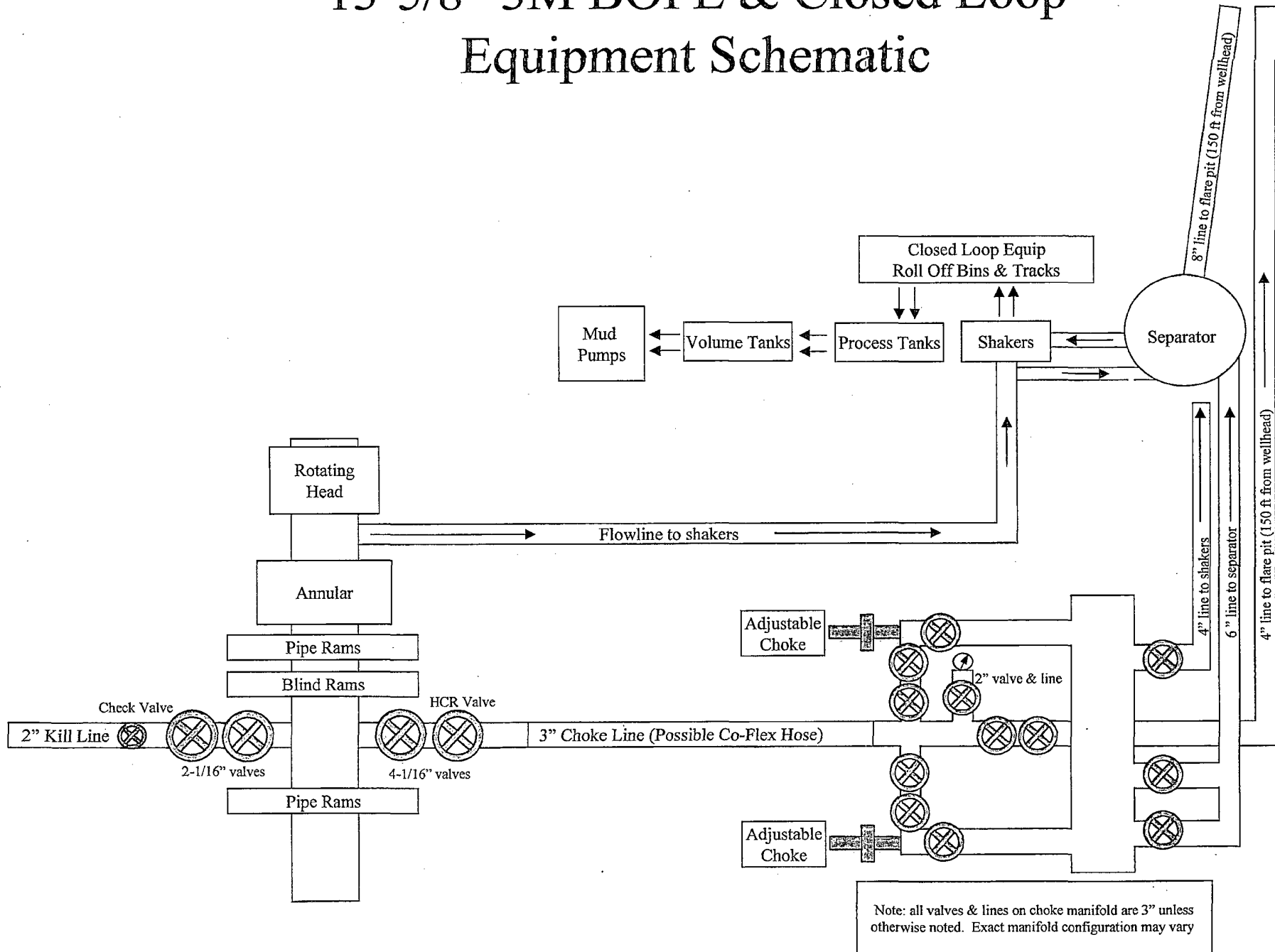
Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)	
12,400.00	89.72	359.62	9,054.88	5,788.28	3,605.79	-23.79	3,605.87	0.00	391,762.81	721,374.23	
12,500.00	89.72	359.62	9,055.37	5,788.77	3,705.79	-24.45	3,705.87	0.00	391,862.81	721,373.57	
12,600.00	89.72	359.62	9,055.86	5,789.26	3,805.79	-25.11	3,805.87	0.00	391,962.81	721,372.91	
12,700.00	89.72	359.62	9,056.36	5,789.76	3,905.78	-25.77	3,905.87	0.00	392,062.80	721,372.25	
12,800.00	89.72	359.62	9,056.85	5,790.25	4,005.78	-26.43	4,005.87	0.00	392,162.80	721,371.59	
12,900.00	89.72	359.62	9,057.34	5,790.74	4,105.78	-27.09	4,105.87	0.00	392,262.80	721,370.93	
13,000.00	89.72	359.62	9,057.83	5,791.23	4,205.77	-27.75	4,205.86	0.00	392,362.79	721,370.27	
13,100.00	89.72	359.62	9,058.32	5,791.72	4,305.77	-28.40	4,305.86	0.00	392,462.79	721,369.62	
13,200.00	89.72	359.62	9,058.81	5,792.21	4,405.77	-29.06	4,405.86	0.00	392,562.79	721,368.96	
13,300.00	89.72	359.62	9,059.30	5,792.70	4,505.76	-29.72	4,505.86	0.00	392,662.78	721,368.30	
13,400.00	89.72	359.62	9,059.79	5,793.19	4,605.76	-30.38	4,605.86	0.00	392,762.78	721,367.64	
13,443.35	89.72	359.62	9,060.00	5,793.40	4,649.11	-30.67	4,649.21	0.00	392,806.13	721,367.35	

BHL (Snapping 2 State #1H)

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
BHL (Snapping 2 Stat	0.00	0.00	9,060.00	4,649.11	-30.67	392,806.13	721,367.35	32.078570	-103.752078
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

13-5/8" 3M BOPE & Closed Loop Equipment Schematic



H&P Flex Rig Location Layout

