

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 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
June 16, 2008

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 OGX RESOURCES, LLC. P. O. BOX 2064 MIDLAND, TEXAS 79702		OGRID Number 217955 ✓
Property Code 38510 ✓	Property Name SIDEWINDER	API Number 30-015-38500 ✓
Well No. 1H ✓		
Proposed Pool 1 WC - BONE SPRING	Proposed Pool 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
Lot 1	32	26S	29E		480'	SOUTH	480'	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
Lot 4	32	26S	29E		330'	SOUTH	330'	EAST	EDDY

Additional Well Information

Well Type Code N ✓	Well Type Code O ✓	Cable/Rotary ROTARY ✓	Lease Type Code P ✓	Ground Level Elevation 2889' ✓
Multiple NO ✓	Proposed Depth MD-11,705 ✓	Formation BONE SPRING	Contractor SILVER OAK DRILL	Spud Date WHEN APPROVED

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Bags of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48 #	450'	425 Sx	Surface
11"	8 5/8"	32 #	2625'	500 Sx	Surface
7 7/8"	5 1/2"	17 #	MD-11,705'	500 Sx	2125' FS

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.

Oil Conservation Division
Case No. 14662
Exhibit No. E-1

SEE ATTACHED SHEET FOR DETAIL

RECEIVED
FEB 01 2011
NMOCD ARTESIA

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: Joe T. Janica		Approved by: [Signature]	
Printed name: Joe T. Janica		Title: [Signature]	
Title: Permit Eng.		Approval Date: 2/24/2011	Expiration Date: 2/24/2013
E-mail Address: joejanica@valornet.com			
Date: 01/31/11	Phone: 575-391-8503	Conditions of Approval Attached ☐	

Scanned

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 450'. Run and set 450' of 13 3/8" 48# H-40 ST&C casing. Cement with 225 Sx. of 35/65/6 Class "C" Premium Plus POZ cement + 6% Bentonite + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.00, tail in with 200 Sx. of Class "C" Premium Plus cement + 2% CaCl, Yield 1.34, circulate cement to surface.
3. Drill 11" hole to 2625'. Run and set 2625' of 8 5/8 32# J-55 ST&C casing. Cement with 300 Sx. of Premium Plus Class "C" POZ cement + 4% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02, tail in with 200 Sx. of Class "C" Premium Plus cement + 2% CaCl, Yield 1.34 circulate cement to surface.
4. Drill 7 7/8" hole to 11,704'. Run and set 11,704' of 5½" casing as follows: 5104' of 5½" 17# P-110 BT&C, 6600' of 5½" 17# P-110 LT&C. Cement with 300 Sx. of 36/65 Premium Plus Class "C" POZ cement + 4% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02, tail in with 200 Sx. of Premium Plus Class "C" cement + 2% CaCl, Yield 1.34 estimate top of cement 2125' from surface.

OGX

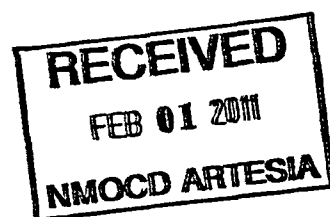
OGX Resources

Eddy County (NAD27)

Sidewinder

1H

OH



Plan: Plan #1

Pathfinder X & Y Planning Report

14 January, 2011

PATHFINDER
A Schlumberger Company

OGX

Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: OGX Resources
Project: Eddy County (NA027)
Site: Sidewinder
Well: 1H
Wellbore: OH
Design: Plan #1

Local Coordinates Reference: Site Sidewinder
TMD Reference: Silver Oak #11 @ 2900.00 uft (Original Well Elev)
MID Reference: Silver Oak #11 @ 2900.00 uft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Reference: EDM 5000.1 Single Ustar Db

Project: Eddy County (NA027), New Mexico
Map System: US State Plane 1927 (Event solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: Sidewinder

Site Position: 354 345.200 uft
Front: 354 345.200 uft
Position Uncertainty: 0.00 uft
Map: 13-37/18
Morphing: 354 345.200 uft
Easting: 354 345.200 uft
Slant Radius: 13-37/18
Latitude: 32° 0' 4.8611 N
Longitude: 104° 0' 47.831 W
Grid Convergence: 0.17 "

Well: 1H
Well Position: 354 345.200 uft
Front: 354 345.200 uft
Position Uncertainty: 0.00 uft
Morphing: 354 345.200 uft
Easting: 354 345.200 uft
Wellhead Elevation: 0.00 uft
Latitude: 32° 0' 4.8611 N
Longitude: 104° 0' 47.831 W
Ground Level: 2.8888.00 uft

Wellbore: OH

Magnetic: Model Name: KGRF200510
Sample Date: 01/14/11
Declination: 7.81
Dip Angle: 59.93
Field Strength: 48.514

Design: Plan #1
Audit Notes: Phase: PLAN
Version: 0.00
Vertical Section: Depth From (TMD): 0.00
Depth From (uwt): 0.00
Tilt On Depth: 0.00
Direction: 91.87

Survey Tool Program: Date: 01/14/11
From (uwt): 0.00
To (uwt): 11,704.87
Survey (Wellbore): Plan #1 (OH)
Tool Name: 5040
Description: 4000 - Standard

Company: OGX Resources
 Project: Eddy County (NA0027)
 Site: Sidewinder
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Coordinate Reference:
 TVD Reference:
 MWD Reference:
 Depth Reference:
 Survey Calculation Method:
 Database:

Site Sidewinder
 Silver Oak #11 @ 2908.00usft (Original Well Elev)
 Silver Oak #11 @ 2908.00usft (Original Well Elev)
 Grad
 Minimum Curvature
 EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Adj (°)	TVD (usft)	TVDSS (usft)	M/S (usft)	EDW (usft)	V. Sec (usft)	DLg (°/100usft)	Heading (usft)	Ending (usft)
0.00	0.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
100.00	0.00	0.00	100.00	2,600.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
200.00	0.00	0.00	200.00	2,700.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
300.00	0.00	0.00	300.00	2,800.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
400.00	0.00	0.00	400.00	2,900.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
500.00	0.00	0.00	500.00	3,000.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
600.00	0.00	0.00	600.00	3,100.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
700.00	0.00	0.00	700.00	3,200.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
800.00	0.00	0.00	800.00	3,300.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
900.00	0.00	0.00	900.00	3,400.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,000.00	0.00	0.00	1,000.00	3,500.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,100.00	0.00	0.00	1,100.00	3,600.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,200.00	0.00	0.00	1,200.00	3,700.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,300.00	0.00	0.00	1,300.00	3,800.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,400.00	0.00	0.00	1,400.00	3,900.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,500.00	0.00	0.00	1,500.00	4,000.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,600.00	0.00	0.00	1,600.00	4,100.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,700.00	0.00	0.00	1,700.00	4,200.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,800.00	0.00	0.00	1,800.00	4,300.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
1,900.00	0.00	0.00	1,900.00	4,400.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,000.00	0.00	0.00	2,000.00	4,500.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,100.00	0.00	0.00	2,100.00	4,600.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,200.00	0.00	0.00	2,200.00	4,700.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,300.00	0.00	0.00	2,300.00	4,800.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,400.00	0.00	0.00	2,400.00	4,900.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,500.00	0.00	0.00	2,500.00	5,000.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,600.00	0.00	0.00	2,600.00	5,100.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70



Pathfinder
Pathfinder X & Y Planning Report



Company: OGX Resources
Project: Eddy County (NA0027)
Site: Sidewinder
Well: 1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TWD Reference:
NAD Reference:
North Reference:
Survey Calculation Method:
Database:

Site Sidewinder
Silver Oak #11 @ 2908.00feet (Original Well Elev)
Silver Oak #11 @ 2908.00feet (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (feet)	Inc (°)	Asl (°)	TWD (feet)	TWDSS (feet)	N/S (feet)	EDM (feet)	V. Sec (feet)	Mag (°/1000feet)	Northing (feet)	Easting (feet)
2,700.00	0.00	0.00	2,700.00	208.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,800.00	0.00	0.00	2,800.00	108.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
2,900.00	0.00	0.00	2,900.00	8.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,000.00	0.00	0.00	3,000.00	-62.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,100.00	0.00	0.00	3,100.00	-162.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,200.00	0.00	0.00	3,200.00	-262.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,300.00	0.00	0.00	3,300.00	-362.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,400.00	0.00	0.00	3,400.00	-462.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,500.00	0.00	0.00	3,500.00	-562.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,600.00	0.00	0.00	3,600.00	-662.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,700.00	0.00	0.00	3,700.00	-762.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,800.00	0.00	0.00	3,800.00	-862.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
3,900.00	0.00	0.00	3,900.00	-962.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,000.00	0.00	0.00	4,000.00	-1,062.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,100.00	0.00	0.00	4,100.00	-1,162.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,200.00	0.00	0.00	4,200.00	-1,262.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,300.00	0.00	0.00	4,300.00	-1,362.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,400.00	0.00	0.00	4,400.00	-1,462.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,500.00	0.00	0.00	4,500.00	-1,562.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,600.00	0.00	0.00	4,600.00	-1,662.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,700.00	0.00	0.00	4,700.00	-1,762.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,800.00	0.00	0.00	4,800.00	-1,862.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
4,900.00	0.00	0.00	4,900.00	-1,962.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
5,000.00	0.00	0.00	5,000.00	-2,062.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
5,100.00	0.00	0.00	5,100.00	-2,162.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
5,200.00	0.00	0.00	5,200.00	-2,262.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70
5,300.00	0.00	0.00	5,300.00	-2,362.00	0.00	0.00	0.00	0.00	364,345.20	589,211.70

Company: OGX Resources
Project: Eddy County (H0027)
Site: Sidewinder
Well: 11H
Wellbore: OH
Design: Plan #1

Local Coordinate Reference:
TVD Reference:
MUD Reference:
North Reference:
Survey Calculation Method:
Database:

Silo Sidewinder
Silver Oak #11 @ 2908.00mst (Original Well Elev)
Silver Oak #11 @ 2908.00mst (Original Well Elev)
Grid
Minimum Curvature
EDM/ 5000.1 Single User Db

Planned Survey

MUD (mst)	Inc (°)	Ad (°)	TVD (mst)	TVDS (mst)	MIS (mst)	EDM (mst)	V. Sec (mst)	DLeg (7100.0mst)	Northing (mst)	Easting (mst)
5,400.00	0.00	0.00	5,400.00	-2,482.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
5,500.00	0.00	0.00	5,500.00	-2,582.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
5,600.00	0.00	0.00	5,600.00	-2,682.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
5,700.00	0.00	0.00	5,700.00	-2,782.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
5,800.00	0.00	0.00	5,800.00	-2,882.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
5,900.00	0.00	0.00	5,900.00	-2,982.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,000.00	0.00	0.00	6,000.00	-3,082.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,100.00	0.00	0.00	6,100.00	-3,182.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,200.00	0.00	0.00	6,200.00	-3,282.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,300.00	0.00	0.00	6,300.00	-3,382.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,400.00	0.00	0.00	6,400.00	-3,482.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,500.00	0.00	0.00	6,500.00	-3,582.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,600.00	0.00	0.00	6,600.00	-3,682.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,700.00	0.00	0.00	6,700.00	-3,782.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,800.00	0.00	0.00	6,800.00	-3,882.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,900.00	0.00	0.00	6,900.00	-3,982.00	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,941.80	0.00	0.00	6,941.80	-4,033.80	0.00	0.00	0.00	0.00	364,345.20	598,211.70
6,950.00	1.05	91.67	6,950.00	-4,042.00	0.00	0.00	0.00	12.50	364,345.20	598,211.78
6,975.00	4.17	91.67	6,975.00	-4,086.97	-0.04	1.22	1.22	12.50	364,345.16	598,212.92
7,000.00	7.30	91.67	6,999.94	-4,091.94	-0.11	3.71	3.71	12.50	364,345.09	598,215.41
7,025.00	10.42	91.67	7,004.54	-4,118.54	-0.22	7.56	7.56	12.50	364,344.98	598,218.26
7,050.00	13.54	91.67	7,008.99	-4,140.99	-0.37	12.75	12.75	12.50	364,344.83	598,224.45
7,075.00	16.67	91.67	7,073.13	-4,165.13	-0.56	19.27	19.27	12.50	364,344.64	598,230.96
7,100.00	19.79	91.67	7,098.87	-4,188.87	-0.79	27.08	27.08	12.50	364,344.41	598,238.78
7,125.00	22.92	91.67	7,120.15	-4,212.15	-1.05	38.18	38.18	12.50	364,344.15	598,247.88
7,150.00	26.04	91.67	7,142.90	-4,234.90	-1.36	48.53	48.53	12.50	364,343.84	598,258.23
7,175.00	29.16	91.67	7,165.05	-4,257.05	-1.69	58.11	58.11	12.50	364,343.51	598,268.81



Pathfinder Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: OGX Resources
Project: Eddy County (NA027)
Site: Sidewinder
Well: 1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
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N/D Reference: Silver Oak #11 @ 2908.00ust (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (ust)	Inc (°)	Azi (°)	TWD (ust)	TWDB (ust)	N/D (ust)	EDW (ust)	V. Sac (ust)	DLag (1/100ust)	Northing (ust)	Easting (ust)
7,200.00	32.28	91.67	7,188.54	-4,278.54	-2.07	70.87	70.90	12.50	364,343.13	599,282.57
7,225.00	35.41	91.67	7,207.39	-4,299.30	-2.47	84.79	84.83	12.50	364,342.73	599,295.49
7,250.00	38.54	91.67	7,227.27	-4,318.27	-2.91	99.82	99.86	12.50	364,342.28	599,311.52
7,275.00	41.66	91.67	7,246.39	-4,338.39	-3.38	115.91	115.96	12.50	364,341.82	599,327.61
7,300.00	44.78	91.67	7,264.81	-4,356.81	-3.88	133.02	133.08	12.50	364,341.32	599,344.72
7,325.00	47.91	91.67	7,281.86	-4,373.86	-4.41	151.10	151.16	12.50	364,340.79	599,362.80
7,350.00	51.03	91.67	7,298.11	-4,389.11	-4.96	170.09	170.16	12.50	364,340.24	599,381.79
7,375.00	54.15	91.67	7,313.29	-4,403.29	-5.54	189.94	189.02	12.50	364,339.66	599,401.64
7,400.00	57.28	91.67	7,327.37	-4,416.37	-6.14	210.58	210.67	12.50	364,339.06	599,422.28
7,425.00	60.40	91.67	7,340.31	-4,428.31	-6.76	231.98	232.06	12.50	364,338.44	599,443.66
7,450.00	63.53	91.67	7,352.06	-4,444.06	-7.41	254.02	254.13	12.50	364,337.79	599,465.72
7,475.00	66.65	91.67	7,362.98	-4,454.98	-8.07	276.68	276.80	12.50	364,337.13	599,488.38
7,500.00	69.77	91.67	7,371.88	-4,463.88	-8.74	299.88	300.01	12.50	364,336.46	599,511.58
7,525.00	72.90	91.67	7,379.86	-4,471.86	-9.43	323.55	323.69	12.50	364,335.77	599,535.25
7,550.00	76.02	91.67	7,386.96	-4,478.96	-10.14	347.63	347.77	12.50	364,335.06	599,559.33
7,575.00	79.15	91.67	7,391.93	-4,483.93	-10.85	372.83	372.19	12.50	364,334.35	599,583.73
7,600.00	82.27	91.67	7,395.97	-4,487.97	-11.57	396.89	396.86	12.50	364,333.63	599,608.39
7,625.00	85.39	91.67	7,398.86	-4,490.86	-12.29	421.53	421.71	12.50	364,332.91	599,633.23
7,650.59	88.59	91.67	7,400.00	-4,492.00	-13.03	447.07	447.26	12.50	364,332.17	599,658.77
7,700.00	88.59	91.67	7,401.22	-4,493.22	-14.47	498.44	498.65	0.00	364,330.73	599,708.14
7,800.00	88.59	91.67	7,403.88	-4,495.88	-17.39	596.37	596.62	0.00	364,327.81	599,808.07
7,900.00	88.59	91.67	7,406.14	-4,498.14	-20.20	686.30	686.59	0.00	364,324.90	599,908.00
8,000.00	88.59	91.67	7,408.80	-4,500.80	-23.21	796.22	796.56	0.00	364,321.99	600,007.92
8,100.00	88.59	91.67	7,411.06	-4,503.06	-26.13	896.15	896.53	0.00	364,319.07	600,107.85
8,200.00	88.59	91.67	7,413.52	-4,505.52	-29.04	996.08	996.50	0.00	364,316.16	600,207.78
8,300.00	88.59	91.67	7,415.98	-4,507.98	-31.95	1,096.01	1,096.47	0.00	364,313.25	600,307.71
8,400.00	88.59	91.67	7,418.44	-4,510.44	-34.87	1,195.93	1,196.44	0.00	364,310.33	600,407.63



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: OGX Resources
Project: Eddy County (NAD27)
Site: Sidewinder
Well: 11H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference: Silver Oak #11 @ 2908.00usft (Original Well Elev)
MD Reference: Silver Oak #11 @ 2908.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Asl (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	MLag (°/100usft)	Northing (usft)	Easting (usft)
8,500.00	88.59	91.67	7,420.80	-4,512.90	-37.78	1,295.86	1,296.41	0.00	364,307.42	600,507.56
8,600.00	88.59	91.67	7,423.36	-4,515.36	-40.89	1,295.79	1,296.38	0.00	364,304.51	600,607.49
8,700.00	88.59	91.67	7,425.82	-4,517.82	-43.61	1,495.72	1,496.35	0.00	364,301.59	600,707.42
8,800.00	88.59	91.67	7,428.28	-4,520.28	-46.52	1,595.64	1,596.32	0.00	364,298.68	600,807.34
8,900.00	88.59	91.67	7,430.74	-4,522.74	-49.43	1,695.57	1,696.29	0.00	364,295.77	600,907.27
9,000.00	88.59	91.67	7,433.20	-4,525.20	-52.35	1,795.50	1,796.26	0.00	364,292.85	601,007.20
9,100.00	88.59	91.67	7,435.67	-4,527.67	-55.26	1,895.42	1,896.23	0.00	364,289.94	601,107.12
9,200.00	88.59	91.67	7,438.13	-4,530.13	-58.17	1,995.35	1,996.20	0.00	364,287.03	601,207.05
9,300.00	88.59	91.67	7,440.59	-4,532.59	-61.09	2,095.28	2,096.17	0.00	364,284.11	601,306.98
9,400.00	88.59	91.67	7,443.05	-4,535.05	-64.00	2,195.21	2,196.14	0.00	364,281.20	601,406.91
9,500.00	88.59	91.67	7,445.51	-4,537.51	-66.92	2,295.13	2,296.11	0.00	364,278.28	601,506.83
9,600.00	88.59	91.67	7,447.97	-4,539.97	-69.83	2,395.06	2,396.08	0.00	364,275.37	601,606.76
9,700.00	88.59	91.67	7,450.43	-4,542.43	-72.74	2,494.99	2,496.05	0.00	364,272.46	601,706.69
9,800.00	88.59	91.67	7,452.89	-4,544.89	-75.66	2,594.92	2,596.02	0.00	364,269.54	601,806.62
9,900.00	88.59	91.67	7,455.35	-4,547.35	-78.57	2,694.84	2,695.99	0.00	364,266.63	601,906.54
10,000.00	88.59	91.67	7,457.81	-4,549.81	-81.48	2,794.77	2,795.96	0.00	364,263.72	602,006.47
10,100.00	88.59	91.67	7,460.27	-4,552.27	-84.40	2,894.70	2,895.93	0.00	364,260.80	602,106.40
10,200.00	88.59	91.67	7,462.73	-4,554.73	-87.31	2,994.62	2,995.90	0.00	364,257.89	602,206.32
10,300.00	88.59	91.67	7,465.19	-4,557.19	-90.22	3,094.55	3,095.87	0.00	364,254.98	602,306.25
10,400.00	88.59	91.67	7,467.65	-4,559.65	-93.14	3,194.48	3,195.84	0.00	364,252.06	602,406.18
10,500.00	88.59	91.67	7,470.11	-4,562.11	-96.05	3,294.41	3,295.81	0.00	364,249.15	602,506.11
10,600.00	88.59	91.67	7,472.58	-4,564.58	-98.96	3,394.33	3,395.78	0.00	364,246.24	602,606.03
10,700.00	88.59	91.67	7,475.04	-4,567.04	-101.88	3,494.26	3,495.75	0.00	364,243.32	602,705.96
10,800.00	88.59	91.67	7,477.50	-4,569.50	-104.79	3,594.19	3,595.72	0.00	364,240.41	602,805.89
10,900.00	88.59	91.67	7,479.96	-4,571.96	-107.70	3,694.12	3,695.68	0.00	364,237.50	602,905.82
11,000.00	88.59	91.67	7,482.42	-4,574.42	-110.62	3,794.04	3,795.65	0.00	364,234.58	603,005.74
11,100.00	88.59	91.67	7,484.88	-4,576.88	-113.53	3,893.97	3,895.62	0.00	364,231.67	603,105.67



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: OGX Resources
Project: Eddy County (NAD27)
Site: Sidewinder
Well: 1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Site Sidewinder
TVD Reference: Silver Oak #11 @ 2908.00ust (Original Well Elev)
MD Reference: Silver Oak #11 @ 2908.00ust (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (ust)	Inc (°)	Ad (°)	TVD (ust)	TVDRS (ust)	N/S (ust)	E/W (ust)	V. Sec (ust)	Mag (°/100ust)	Northing (ust)	Easting (ust)
11,200.00	88.59	91.67	7,487.34	-4,579.34	-116.44	3,993.90	3,995.59	0.00	364,228.76	603,205.60
11,300.00	88.59	91.67	7,489.80	-4,581.80	-119.36	4,093.82	4,095.56	0.00	364,225.84	603,305.52
11,400.00	88.59	91.67	7,492.26	-4,584.26	-122.27	4,193.75	4,195.53	0.00	364,222.93	603,405.45
11,500.00	88.59	91.67	7,494.72	-4,586.72	-125.18	4,293.68	4,295.50	0.00	364,220.02	603,505.38
11,600.00	88.59	91.67	7,497.18	-4,589.18	-128.10	4,393.61	4,395.47	0.00	364,217.10	603,605.31
11,704.87	88.59	91.67	7,499.78	-4,591.78	-131.15	4,493.40	4,500.31	0.00	364,214.05	603,710.10
PSML (SWT)										

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County (NAD27)
Site: Sidewinder
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H0H)



Alignments to Grid North
True North: -4.37°
Magnetic North: 7.54°

Magnetic Field
Strength: 48813.50
Dip Angle: 88.93°
Date: 01/14/2011
Model: IGRF200510

PATHFINDER[®]

A Schlumberger Company

WELL DETAILS: #1H

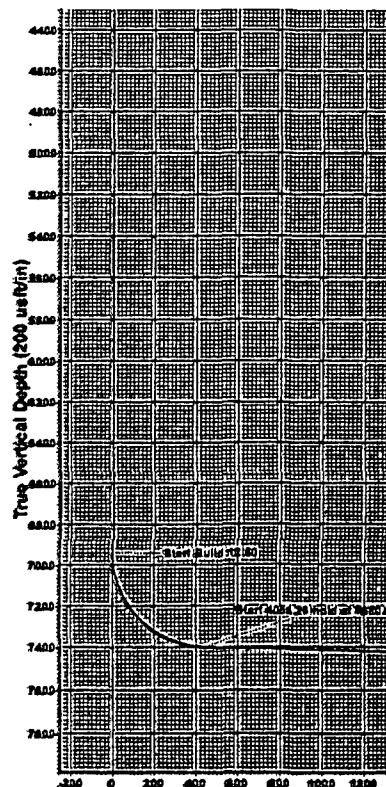
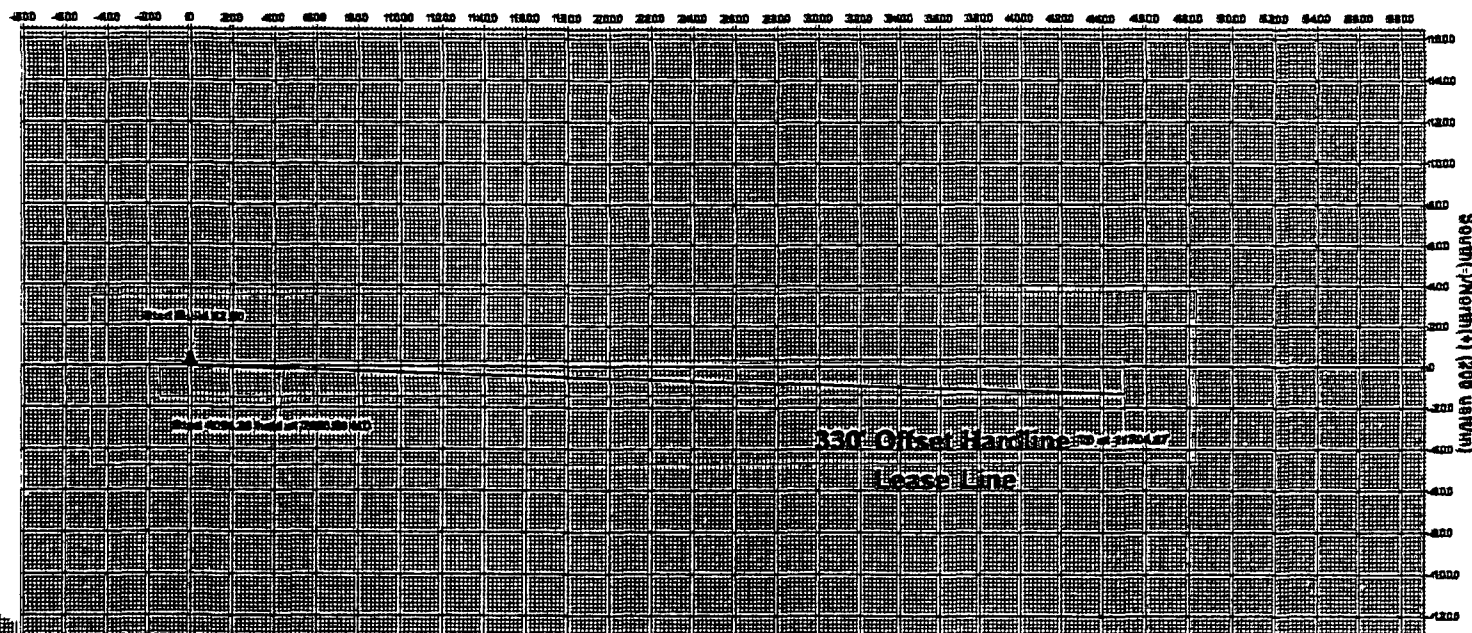
Ground Elevation: 3889.00
RWS Elevation: Silver Oak #01 @ 2000.00m (Original Well Elev)
Rig Name: Original Well Elev

WGS	UTM	Northing	Easting	Latitude	Longitude	Site
0.00	0.00	384844.200	882711.700	31° 0' 4.881" N	104° 0' 47.831" W	

SECTION DETAILS

SSD	Inc	Asl	TVD	+W/G	+E/W	Diag	TFace	VSeal	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6941.80	0.00	0.00	6941.80	0.00	0.00	0.00	0.00	0.00	
7650.59	88.59	91.87	7400.00	-13.03	447.87	12.50	91.87	447.26	
11764.87	88.59	91.87	7499.76	-131.15	4488.40	0.00	0.00	4590.31	PSHL (SWT)

West/East (+) (200 units)



Vertical Section at 91.87° (200 units)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+W/G	+E/W	Northing	Easting	Shape
PSHL (SWT)	7400.00	-131.15	4488.40	384754.500	882711.700	Point

PROJECT DETAILS: Eddy County (NAD27)
Geoid: System: US State Plane 1827 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

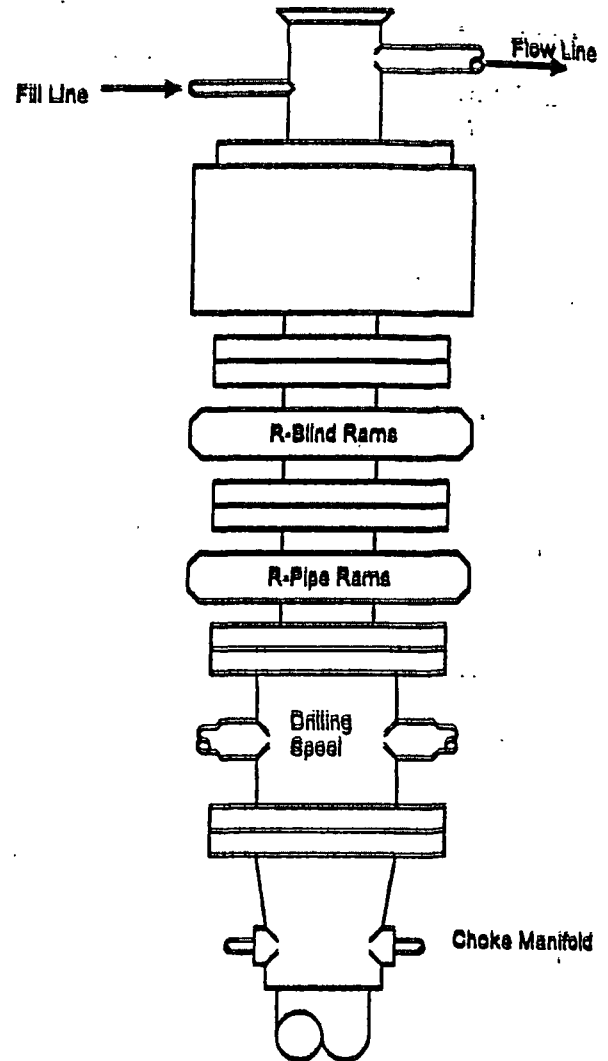
Plan: Plan #1 (#1H0H)

Created By: Mike Birgham Date: 10/23, January 28 2011

Checked: _____ Date: _____

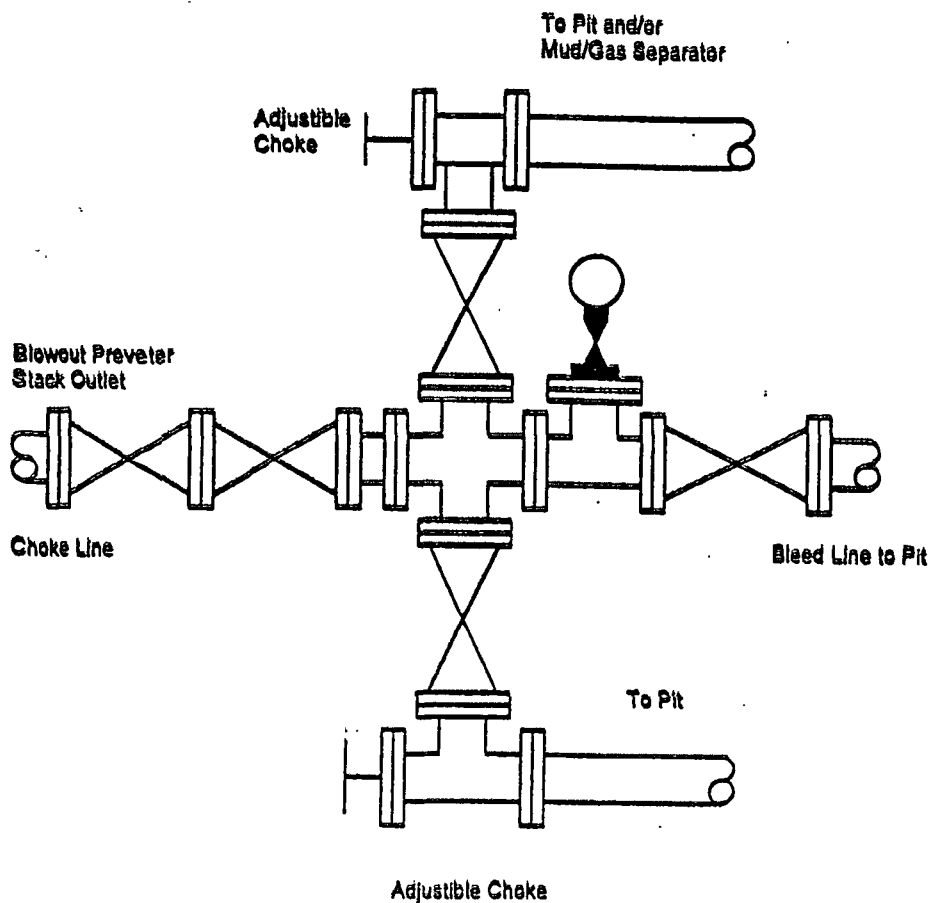
BLOWOUT PREVENTER SYSTEM

3000 PSI



Type 900 SERIES
3000 PSI WP

Choke Manifold Assembly for 5M WP System



DISTRICT I
1626 N. FRENCH DR., NOBBS, NM 86240

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 and Natural Resources Department

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 30-015-38500	Pool Code	Pool Name WC -BONE SPRING
Property Code 38510	Property Name SIDEWINDER	Well Number 1H
OGRID No. 217955	Operator Name OGX RESOURCES	Elevation 2889'

Surface Location

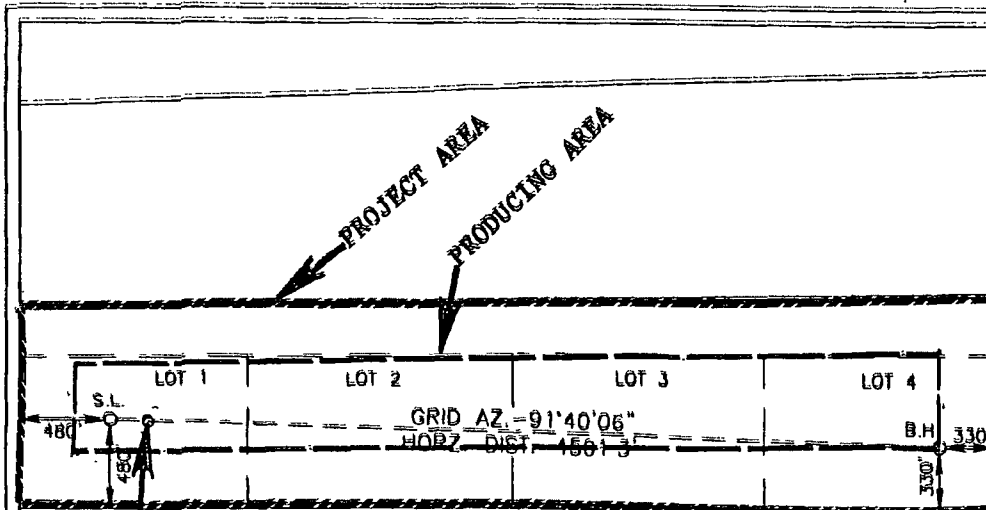
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	32	26-S	29-E		480	SOUTH	480	WEST	EDDY

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
4	32	26-S	29-E		330	SOUTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
138			

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



POB
474' FSL & 690' FWL

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y=364345.2 N
X=599211.7 E

LAT.=32.001295° N
LONG.=104.013286° W

BOTTOM HOLE LOCATION
Y=364214.1 N
X=603710.1 E

RECEIVED
FEB 01 2011
NMOCD ARTESIA

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.

Signature: *Joe T. Janica*
Date: 01/31/11
Printed Name: Joe T. Janica

SURVEYOR CERTIFICATION

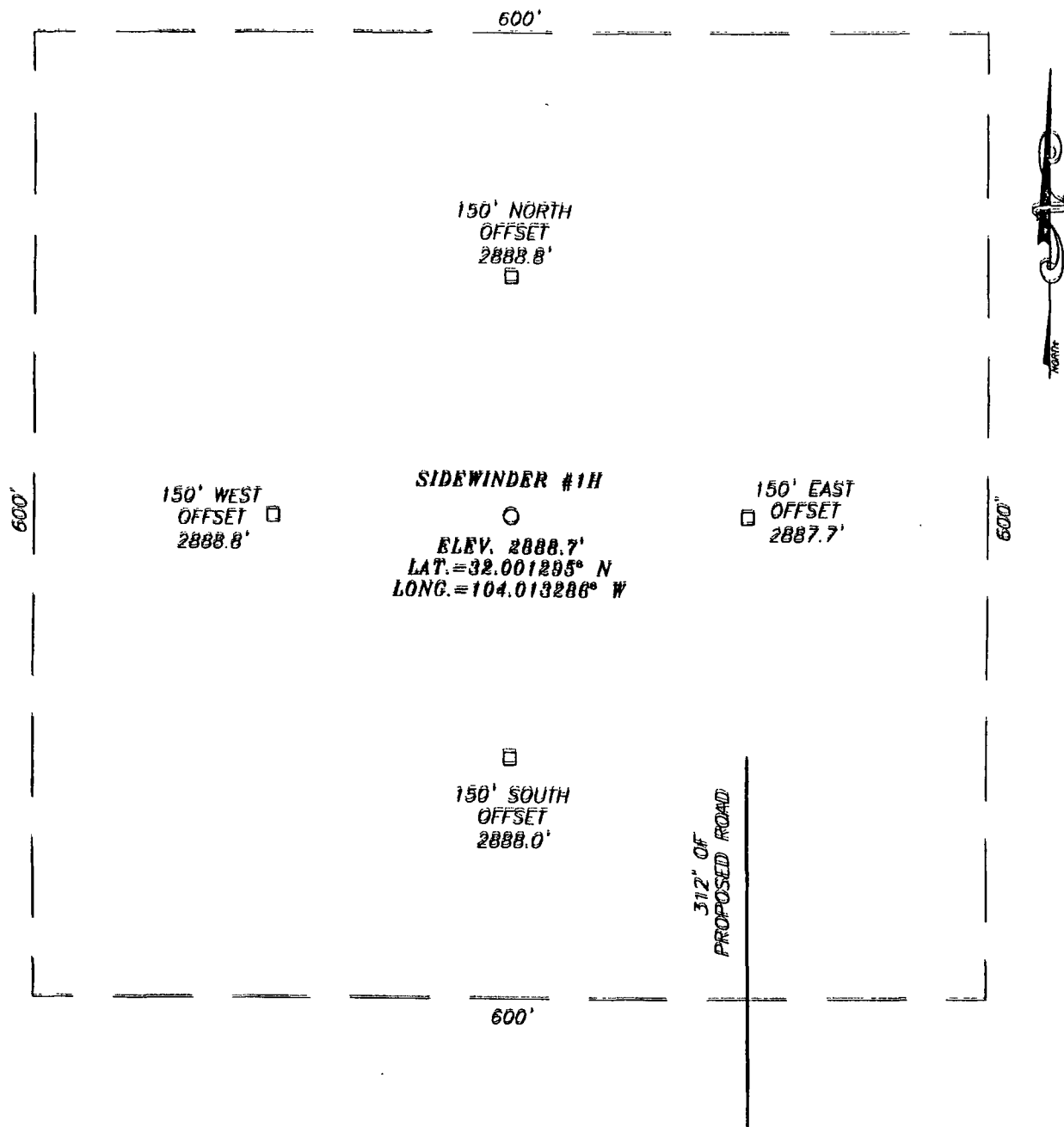
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 3, 2011

Date Surveyed: LA
Signature: *Ronald S. Edson*
Professional Surveyor

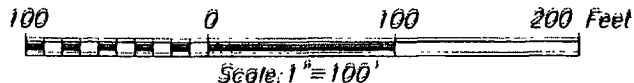
NEW MEXICO
RONALD S. EDSON
10.11.1938
Certificate No. GARY EDSON 12841
RONALD S. EDSON 3230

SECTION 32, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #285 AND
 CO. RD. #726 (CATFISH) GO EAST ON CATFISH ROAD
 FOR APPROX. 1.1 MILES TO A PROPOSED ROAD
 SURVEY. FOLLOW ROAD SURVEY 312 FEET NORTH TO
 THIS LOCATION.



OGX RESOURCES

SIDEWINDER #1H
 LOCATED 480 FEET FROM THE SOUTH LINE
 AND 480 FEET FROM THE WEST LINE OF SECTION 32,
 TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 1/3/11	Sheet 1 of 1 Sheets
W.O. Number: 10 11.1938	Dr By: LA
Date: 1/10/11	10111938
	Scale 1"=100'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBB5, N.M. 88240
(575) 393-3117

The map displays a 36x36 grid of sections. The sections are numbered 1 through 36 in a repeating pattern. A thick black line outlines the field boundary, which is irregular and follows the grid lines. A dashed line indicates the 'SIDEWINDER #2H' well path, which starts near the bottom center and extends upwards. The map includes labels for T25S R28E, T25S R29E, T25S R30E, T26S R28E, T26S R29E, and T26S R30E. A dashed line indicates the 'SIDEWINDER #2H' well path. The map also shows 'DARBYSHAW' and 'S. 105'.

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

DISTRICT I
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1220 SOUTH ST. FRANCIS DR.
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Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38501	Pool Code	Pool Name WC -BONE SPRING
Property Code 38510	Property Name SIDEWINDER	Well Number 2H
OGRID No. 217955	Operator Name OGX RESOURCES	Elevation 2994'

Surface Location

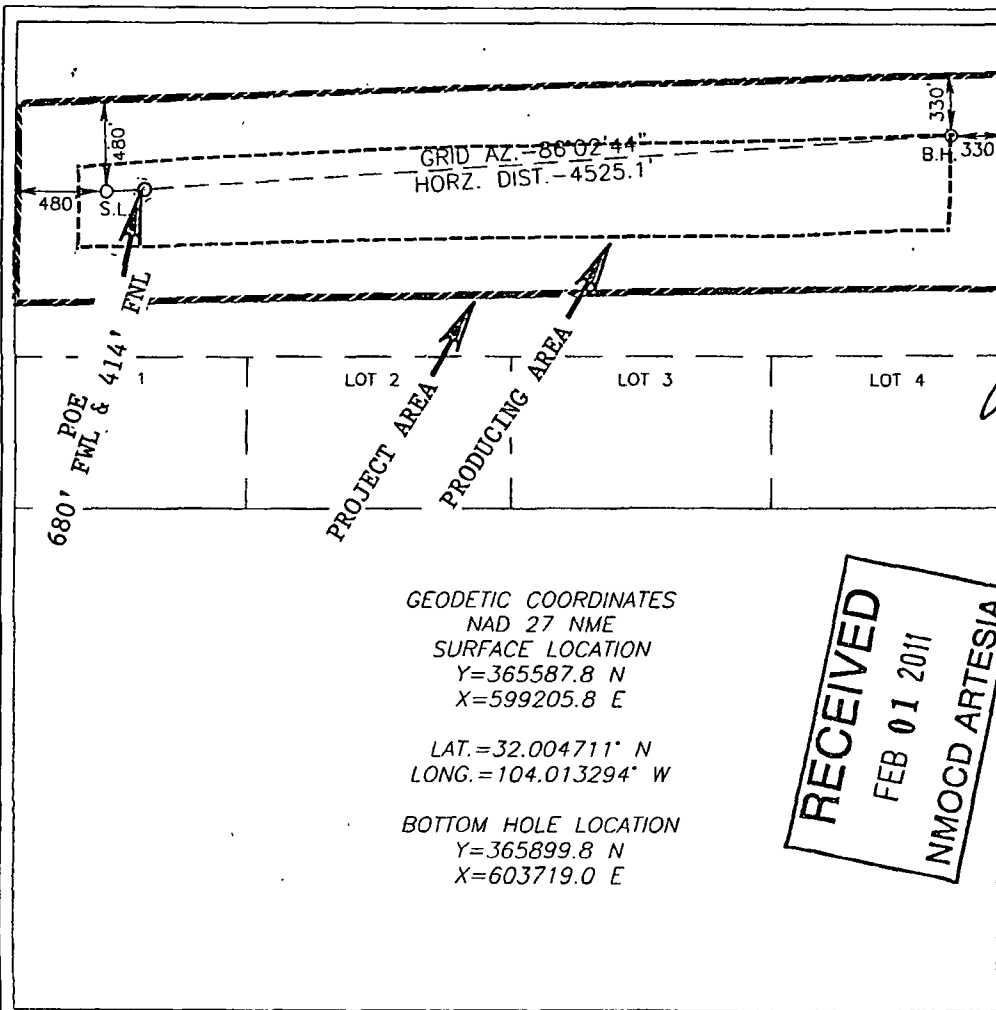
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	26-S	29-E		480	NORTH	480	WEST	EDDY

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
A	32	26-S	29-E		330	NORTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
138			

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.

Signature: Joe T. Janica Date: 01/31/11
Printed Name

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.

JANUARY 3, 2011

Date Surveyed: 01/31/2011 LA
Signature: GARY EIDSON Seal of Professional Surveyor, New Mexico
Certificate No.: GARY EIDSON 12841
EIDSON 3239

RECEIVED
FEB 01 2011
NMOCD ARTESIA