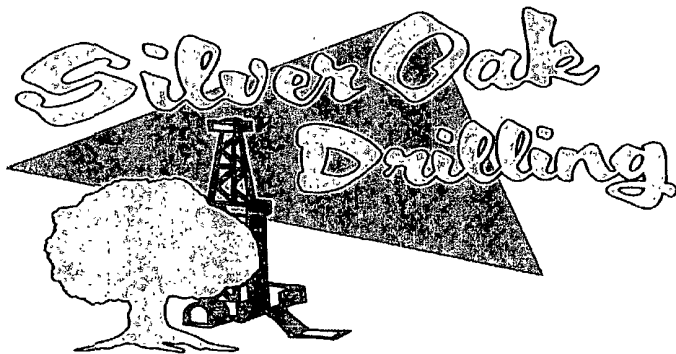




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

30-015-39343

November 2, 2011

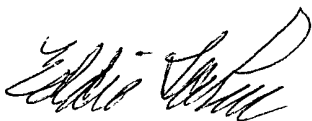
OGX Resources
PO box 11148
Midland, TX 79702

RE: Cooper 31 Federal #4H
2160' FSL & 480' FEL
Sec. 31, T25S, R29E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

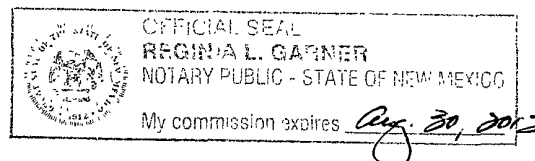
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 2nd day of November, 2011.


Regina L. Garner
Notary Public



Pason DataHub Deviation Survey
Well Dossier 3225760 - COOPER 31 FED COM 4H
#

#	Date	Depth	Deviation	Direction
	10/4/2011	136	0.70	0.00
	10/4/2011	249	1.60	0.00
	10/4/2011	418	1.30	0.00
	10/6/2011	750	1.50	0.00
	10/7/2011	1062	2.10	0.00
	10/7/2011	1156	1.80	0.00
	10/7/2011	1309	2.00	0.00
	10/7/2011	1496	1.50	0.00
	10/8/2011	1810	2.00	0.00
	10/8/2011	2123	2.20	0.00
	10/8/2011	2278	2.50	0.00
	10/8/2011	2372	2.40	0.00
	10/8/2011	2528	2.40	0.00
	10/9/2011	2686	2.20	0.00
	10/9/2011	2796	1.30	0.00
	10/11/2011	3255	0.40	0.00
	10/11/2011	3730	0.30	0.00
	10/11/2011	4206	0.10	0.00
	10/11/2011	4686	0.50	0.00
	10/12/2011	5127	0.60	0.00
	10/12/2011	5634	0.50	0.00
	10/13/2011	6100	0.60	0.00
	10/16/2011	6526	1.90	254.80
	10/16/2011	6652	19.40	267.00
	10/16/2011	6686	23.50	267.80
	10/16/2011	6713	27.80	267.30
	10/16/2011	6746	31.10	268.40
	10/17/2011	6842	39.60	271.40
	10/17/2011	6966	52.00	268.40
	10/17/2011	6999	54.20	267.80
	10/17/2011	7031	57.20	267.80
	10/17/2011	7058	61.00	268.40
	10/17/2011	7091	64.80	269.50
	10/18/2011	7187	77.60	270.00
	10/18/2011	7216	82.30	269.90
	10/19/2011	7192	77.70	269.40
	10/19/2011	7503	91.90	258.10
	10/19/2011	7596	91.60	268.30
	10/20/2011	7780	92.40	268.40
	10/23/2011	7876	92.40	268.00
	10/23/2011	8064	92.00	269.50
	10/24/2011	8719	92.60	267.90
	10/24/2011	8814	93.60	270.20
	10/25/2011	9052	93.30	268.90
	10/25/2011	9250	91.20	267.70
	10/26/2011	9344	89.60	268.10
	10/26/2011	9655	92.00	270.70
	10/27/2011	9861	91.40	269.20
	10/27/2011	9967	90.90	268.50

Well Dossier 3225760 - COOPER 31 FED COM 4H
#

#	Date	Depth	Deviation	Direction
	10/28/2011	10123	90.40	267.00
	10/28/2011	10312	89.90	268.60
	10/29/2011	10498	89.20	269.40
	10/29/2011	10778	90.70	269.50
	10/29/2011	10873	92.60	270.50
	10/29/2011	10963	92.40	271.20
	10/29/2011	11021	92.40	270.80

EOF

OGX Resources

Eddy County, New Mexico (Nad27)

Cooper 31 Federal

Cooper 31 Fed 4H

Wellbore #1

Survey: Phoenix MWD Surveys

OGX Resources Survey Report

30 October, 2011

Phoenix Technology Services

OGX Resources Survey Report

Company:	OGX Resources	Local Co-ordinate Reference:	Well Cooper 31 Fed 4H
Project:	Eddy County, New Mexico (Nad27)	TVD Reference:	Well @ 2977.00usft (Original Well Elev + 18' KB)
Site:	Cooper 31 Federal	MD Reference:	Well @ 2977.00usft (Original Well Elev + 18' KB)
Well:	Cooper 31 Fed 4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Project	Eddy County, New Mexico (Nad27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Cooper 31 Federal				
Site Position:	Northing:	394,372.77 usft	Latitude:	32° 5' 1.865 N	
From:	Map	Easting:	598,010.42 usft	Longitude:	104° 1' 0.760 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well	Cooper 31 Fed 4H					
Well Position	+N/-S	0.00 usft	Northing:	394,372.77 usft	Latitude:	32° 5' 1.865 N
	+E/-W	0.00 usft	Easting:	598,010.42 usft	Longitude:	104° 1' 0.760 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,959.00 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010_14	08/08/11	(°)	(°)	(nT)
			7.76	59.98	48,470

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
		Direction	(°)
			269.84

Phoenix Technology Services

OGX Resources Survey Report

Company: OGX Resources
Project: Eddy County, New Mexico (Nad27)
Site: Cooper 31 Federal
Well: Cooper 31 Fed 4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Cooper 31 Fed 4H
TVD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
MD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey Program	Date			
	10/30/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	6,428.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard
6,462.00	11,071.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Easting (usft)	Northing (usft)
6,428.00	0.42	184.82	-3,449.31	6,426.31	63.30	29.71	-29.89	0.00	598,040.13	394,436.07
Tie In From Survey @ 6428' MD										
6,462.00	0.60	199.90	-3,483.31	6,460.31	63.01	29.64	-29.82	0.66	598,040.06	394,435.78
First Phoenix MWD Survey @ 6462' MD										
6,484.00	0.40	192.50	-3,515.31	6,492.31	62.74	29.56	-29.74	0.66	598,039.98	394,435.51
6,526.00	1.90	254.80	-3,547.30	6,524.30	62.49	29.02	-29.20	5.47	598,039.44	394,435.26
6,558.00	6.10	260.40	-3,579.22	6,556.22	62.07	26.83	-27.01	13.17	598,037.25	394,434.84
6,590.00	10.80	263.40	-3,610.86	6,587.86	61.44	22.18	-22.35	14.75	598,032.60	394,434.21
6,622.00	15.10	265.40	-3,642.04	6,619.04	60.76	15.04	-15.21	13.51	598,025.46	394,433.53
6,654.00	19.40	267.00	-3,672.59	6,649.59	60.15	5.57	-5.74	13.52	598,015.99	394,432.92
6,686.00	23.50	267.80	-3,702.37	6,679.37	59.63	-6.11	5.95	12.84	598,004.30	394,432.39
6,717.00	27.80	267.30	-3,730.31	6,707.31	59.05	-19.52	19.35	13.89	597,990.90	394,431.82
6,748.00	31.10	268.40	-3,757.30	6,734.30	58.48	-34.74	34.58	10.79	597,975.67	394,431.25
6,780.00	34.10	270.00	-3,784.26	6,761.26	58.25	-51.98	51.82	9.75	597,958.44	394,431.02
6,811.00	36.50	271.20	-3,809.56	6,786.56	58.45	-69.89	69.73	8.06	597,940.53	394,431.21
6,842.00	39.60	271.40	-3,833.96	6,810.96	58.88	-88.99	88.83	10.01	597,921.43	394,431.65
6,874.00	42.90	271.60	-3,858.02	6,835.02	59.44	-110.08	109.91	10.32	597,900.34	394,432.20
6,906.00	45.70	270.30	-3,880.92	6,857.92	59.80	-132.42	132.26	9.20	597,878.00	394,432.57
6,937.00	48.80	269.10	-3,901.96	6,878.96	59.67	-155.18	155.02	10.40	597,855.24	394,432.44
6,968.00	52.00	268.40	-3,921.72	6,898.72	59.15	-179.06	178.89	10.47	597,831.36	394,431.92
6,999.00	54.20	267.80	-3,940.33	6,917.33	58.33	-203.83	203.67	7.26	597,806.58	394,431.09
7,031.00	57.20	267.80	-3,958.36	6,935.36	57.31	-230.25	230.09	9.37	597,780.17	394,430.08

Phoenix Technology Services

OGX Resources Survey Report

Company: OGX Resources
Project: Eddy County, New Mexico (Nad27)
Site: Cooper 31 Federal
Well: Cooper 31 Fed 4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Cooper 31 Fed 4H
TVD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
MD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Easting (usft)	Northing (usft)
	7,062.00	61.00	268.40	-3,974.28	6,951.28	56.43	-256.83	256.67	12.37	597,753.59	394,429.20
	7,093.00	64.70	269.50	-3,988.42	6,965.42	55.93	-284.40	284.24	12.35	597,726.02	394,428.70
	7,125.00	68.60	270.50	-4,001.10	6,978.10	55.94	-313.77	313.62	12.52	597,696.64	394,428.70
	7,156.00	72.80	270.10	-4,011.35	6,988.35	56.09	-343.03	342.87	13.60	597,667.39	394,428.85
	7,187.00	77.60	270.00	-4,019.26	6,996.26	56.11	-372.99	372.83	15.49	597,637.43	394,428.88
	7,219.00	82.30	269.90	-4,024.85	7,001.85	56.09	-404.49	404.33	14.69	597,605.93	394,428.85
	7,253.00	87.40	268.50	-4,027.90	7,004.90	55.61	-438.34	438.18	15.55	597,572.08	394,428.38
	7,284.00	90.90	268.90	-4,028.36	7,005.36	54.91	-469.32	469.16	11.36	597,541.10	394,427.67
	7,316.00	91.30	268.70	-4,027.74	7,004.74	54.24	-501.31	501.15	1.40	597,509.11	394,427.00
	7,409.00	92.50	268.80	-4,024.66	7,001.66	52.21	-594.23	594.08	1.29	597,416.19	394,424.98
	7,503.00	91.90	268.10	-4,021.05	6,998.05	49.67	-688.13	687.99	0.98	597,322.29	394,422.44
	7,596.00	91.60	268.30	-4,018.21	6,995.21	46.75	-781.04	780.90	0.39	597,229.38	394,419.52
	7,690.00	90.90	267.90	-4,016.16	6,993.16	43.63	-874.96	874.84	0.86	597,135.46	394,416.40
	7,783.00	92.40	268.40	-4,013.48	6,990.48	40.63	-967.87	967.76	1.70	597,042.55	394,413.40
	7,877.00	92.40	268.00	-4,009.55	6,986.55	37.68	-1,061.74	1,061.63	0.43	596,948.67	394,410.45
	7,971.00	92.20	269.40	-4,005.77	6,982.77	35.55	-1,155.64	1,155.54	1.50	596,854.78	394,408.32
	8,064.00	92.00	269.50	-4,002.37	6,979.37	34.66	-1,248.57	1,248.47	0.24	596,761.84	394,407.43
	8,158.00	91.80	269.30	-3,999.25	6,976.25	33.68	-1,342.52	1,342.42	0.30	596,667.90	394,406.44
	8,253.00	91.20	269.10	-3,996.76	6,973.76	32.35	-1,437.48	1,437.38	0.67	596,572.94	394,405.12
	8,346.00	91.20	269.90	-3,994.81	6,971.81	31.54	-1,530.45	1,530.36	0.86	596,479.97	394,404.31
	8,439.00	89.40	269.70	-3,994.33	6,971.33	31.21	-1,623.45	1,623.35	1.95	596,386.97	394,403.98
	8,533.00	89.70	269.50	-3,995.07	6,972.07	30.56	-1,717.44	1,717.35	0.38	596,292.98	394,403.32
	8,626.00	93.20	268.90	-3,992.71	6,969.71	29.26	-1,810.39	1,810.30	3.82	596,200.03	394,402.03
	8,720.00	92.60	267.90	-3,987.96	6,964.96	26.64	-1,904.23	1,904.15	1.24	596,106.19	394,399.41
	8,814.00	93.60	270.20	-3,982.87	6,959.87	25.08	-1,998.07	1,997.99	2.66	596,012.35	394,397.85
	8,907.00	93.40	269.20	-3,977.20	6,954.20	24.60	-2,090.89	2,090.82	1.09	595,919.52	394,397.36
	9,001.00	91.20	267.70	-3,973.42	6,950.42	22.05	-2,184.77	2,184.70	2.83	595,825.64	394,394.82

Phoenix Technology Services
OGX Resources Survey Report

Company: OGX Resources
Project: Eddy County, New Mexico (Nad27)
Site: Cooper 31 Federal
Well: Cooper 31 Fed 4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Cooper 31 Fed 4H
TVD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
MD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Easting (usft)	Northing (usft)	
9,095.00	93.30	268.90	-3,969.73	6,946.73	19.27	-2,278.65	2,278.59	2.57	595,731.76	394,392.03	
9,189.00	91.80	268.10	-3,965.55	6,942.55	16.81	-2,372.53	2,372.47	1.81	595,637.89	394,389.58	
9,282.00	90.20	267.50	-3,963.93	6,940.93	13.24	-2,465.44	2,465.39	1.84	595,544.98	394,386.01	
9,376.00	90.20	269.20	-3,963.60	6,940.60	10.53	-2,559.40	2,559.36	1.81	595,451.02	394,383.30	
9,469.00	90.00	270.60	-3,963.44	6,940.44	10.37	-2,652.39	2,652.35	1.52	595,358.02	394,383.14	
9,563.00	91.50	271.20	-3,962.21	6,939.21	11.85	-2,746.37	2,746.33	1.72	595,264.05	394,384.61	
9,656.00	92.00	270.70	-3,959.37	6,936.37	13.39	-2,839.31	2,839.27	0.76	595,171.10	394,386.15	
9,750.00	91.70	269.90	-3,956.33	6,933.33	13.88	-2,933.26	2,933.21	0.91	595,077.16	394,386.65	
9,843.00	91.30	269.00	-3,953.90	6,930.90	12.99	-3,026.23	3,026.18	1.06	594,984.19	394,385.75	
9,937.00	90.80	268.50	-3,952.18	6,929.18	10.94	-3,120.19	3,120.14	0.75	594,890.23	394,383.70	
10,030.00	90.50	266.50	-3,951.12	6,928.12	6.88	-3,213.09	3,213.06	2.17	594,797.33	394,379.65	
10,125.00	90.40	267.00	-3,950.37	6,927.37	1.50	-3,307.93	3,307.91	0.54	594,702.49	394,374.26	
10,218.00	90.50	269.20	-3,949.64	6,926.64	-1.59	-3,400.87	3,400.86	2.37	594,609.55	394,371.18	
10,312.00	89.90	268.60	-3,949.32	6,926.32	-3.39	-3,494.85	3,494.85	0.90	594,515.56	394,369.37	
10,375.00	89.70	268.70	-3,949.54	6,926.54	-4.88	-3,557.84	3,557.83	0.35	594,452.58	394,367.89	
10,406.00	89.30	268.40	-3,949.81	6,926.81	-5.66	-3,588.82	3,588.83	1.61	594,421.59	394,367.11	
10,499.00	89.20	269.40	-3,951.02	6,928.02	-7.45	-3,681.80	3,681.80	1.08	594,328.62	394,365.32	
10,593.00	92.70	270.60	-3,949.46	6,926.46	-7.45	-3,775.77	3,775.77	3.94	594,234.65	394,365.32	
10,686.00	91.60	270.50	-3,945.98	6,922.98	-6.55	-3,868.70	3,868.70	1.19	594,141.72	394,366.21	
10,779.00	90.70	269.50	-3,944.11	6,921.11	-6.55	-3,961.68	3,961.68	1.45	594,048.74	394,366.21	
10,873.00	92.60	270.50	-3,941.40	6,918.40	-6.56	-4,055.63	4,055.63	2.28	593,954.79	394,366.21	
10,967.00	92.40	271.20	-3,937.30	6,914.30	-5.16	-4,149.53	4,149.53	0.77	593,860.89	394,367.60	
11,021.00	92.40	270.80	-3,935.04	6,912.04	-4.22	-4,203.48	4,203.47	0.74	593,806.94	394,368.55	
Last Phoenix MWD Survey @ 11021' MD											
11,071.00	92.40	270.80	-3,932.95	6,909.95	-3.52	-4,253.43	4,253.42	0.00	593,756.99	394,369.24	
Projection to TD @ 11071' MD											

Phoenix Technology Services

OGX Resources Survey Report

Company: OGX Resources
Project: Eddy County, New Mexico (Nad27)
Site: Cooper 31 Federal
Well: Cooper 31 Fed 4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Cooper 31 Fed 4H
TVD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
MD Reference: Well @ 2977.00usft (Original Well Elev + 18' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,428.00	6,426.31	63.30	29.71	Tie In From Survey @ 6428' MD
6,462.00	6,460.31	63.01	29.64	First Phoenix MWD Survey @ 6462' MD
11,021.00	6,912.04	-4.22	-4,203.48	Last Phoenix MWD Survey @ 11021' MD
11,071.00	6,909.95	-3.52	-4,253.43	Projection to TD @ 11071' MD

Checked By: _____ Approved By: _____ Date: _____

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER	1110590	OPERATOR	OGX Resources
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WELL NAME	Cooper 31 Fed 4H	COUNTY & STATE	Eddy County, NM
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API WELL NUMBER	30-015-39343	PROPOSED DIRECTION	269.84
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TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
6,428 ft	6,426.31 ft	4 ft	184.8 ft	63.30 ft	29.71 ft	Scientific Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
15-Oct-11	6,462 ft	0.6	199.9

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
29-Oct-11	11,021 ft	92.4	270.8

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
29-Oct-11	11,071 ft	92.4	270.8

Brad Hill

PRINT YOUR NAME ABOVE

Brad Hill

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.59
DECLINATION OR GRID	DEC

10/29/2011

TODAY'S DATE

MWD SUPERVISOR 1

Brad Hill

DIRECTIONAL DRILLER 1

Ted Laprairie

MWD SUPERVISOR 2

Will Stanley

DIRECTIONAL DRILLER 2

Jamie Allen

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Houston, Texas 77043

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