



PHOENIX
TECHNOLOGY SERVICES

29 August 2011

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Re: OGX Resources LLC
Copperhead 31 Fee A 1H
Eddy County, NM
API #30-015-38227
Job No. 1110460

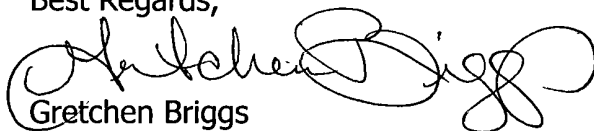


Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
David Hayden	1H	6,161	11,647	08/17/11	08/26/11	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,


Gretchen Briggs
Operations Administrator

Certified mail receipt number: 7010 1670 0000 9227 7157

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1110460

OPERATOR

OGX Resources

WELL NAME

Copperhead 31 Fee A 1H

COUNTY & STATE

Eddy, NM

API WELL NUMBER

30-015-38227

PROPOSED DIRECTION

359.66

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
6,065 ft	6,063.74 ft	1.8 ft	190.1 ft	3.32 ft	-49.62 ft	Scientific Drilling

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
17-Aug-11	6,161 ft	0.8	164.7

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
26-Aug-11	11,647 ft	91.2	360

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
26-Aug-11	11,703 ft	91.2	360

David Hayden

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.6
DECLINATION OR GRID	DECLINATION

8/26/2011

TODAY'S DATE

MWD SUPERVISOR 1

David Hayden

DIRECTIONAL DRILLER 1

Ted LaPraire

MWD SUPERVISOR 2

Brandon Davenport

DIRECTIONAL DRILLER 2

Jimmy Jenkins

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

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
1220 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	Pool Name
Property Code	Property Name COPPERHEAD FEE A		Well Number 1H
OGRID No.	Operator Name OGX RESOURCES		Elevation 2928'

Surface Location

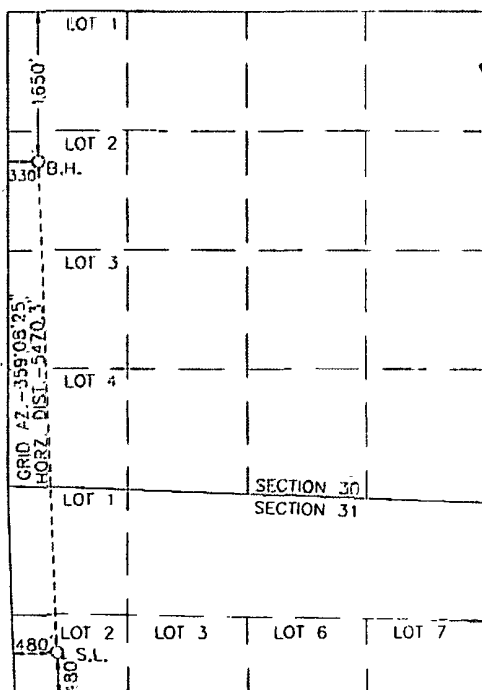
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	31	26-S	29-E		480	SOUTH	480	WEST	EDDY

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
2	30	26-S	29-E		1650	NORTH	330	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	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



RECEIVED
AUG 31 2011
NMOCD ARTESIA

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y=364319.1 N
X=593901.4 E

LAT.=32.001265° N
LONG.=104.030417° W

BOTTOM HOLE LOCATION
Y=369787.5 N
X=593819.4 E

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 _____ Date _____
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.

ABSTRACT 104 2010
Date Surveyed _____
Signature _____
Professional Surveyor
Certificate No. 12641
RONALD J. EIDSON 3239

Scanned



Job Number: 1110460
 Company: Phoenix Technology
 Lease/Well: Cooperhead Fee A 1H
 Location: Eddy County
 Rig Name: Silver Oak 11
 RKB: 17.5
 G.L. or M.S.L.: ☐

State/Country: TX /USA
 Declination: 7.60
 Grid: -.16
 File name: C:\WINSERVE\COPFA1H.SVY
 Date/Time: 26-Aug-11 / 20:47
 Curve Name: Survey's

Scientific Drilling

WINSERVE PROPOSAL REPORT
 Minimum Curvature Method
 Vertical Section Plane 359.14
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
Distance FT									
Direction Deg									
tie in									
6065.00	1.82	190.05	6063.74	3.32	-49.62	4.06	49.73	273.83	.00
6161.00	.80	164.70	6159.71	1.17	-49.71	1.92	49.72	271.35	1.20
6192.00	.30	107.20	6190.71	.94	-49.57	1.68	49.58	271.09	2.22
6224.00	2.10	11.90	6222.71	1.49	-49.37	2.23	49.40	271.73	6.71
6256.00	7.30	6.50	6254.59	4.08	-49.02	4.82	49.19	274.76	16.29
6288.00	12.20	3.60	6286.12	9.48	-48.58	10.21	49.50	281.04	15.38
6320.00	16.70	2.10	6317.10	17.46	-48.20	18.18	51.26	289.91	14.11
6352.00	21.20	.30	6347.35	27.84	-48.00	28.56	55.49	300.12	14.18
6384.00	25.50	1.20	6376.73	40.52	-47.83	41.23	62.68	310.27	13.48
6415.00	28.90	2.00	6404.29	54.68	-47.42	55.39	72.38	319.07	11.03
6447.00	32.20	3.30	6431.85	70.93	-46.66	71.62	84.90	326.66	10.52
6479.00	34.90	2.10	6458.52	88.59	-45.84	89.27	99.75	332.64	8.69
6511.00	38.00	.90	6484.25	107.59	-45.35	108.26	116.76	337.15	9.94
6542.00	41.10	359.40	6508.15	127.33	-45.30	127.99	135.15	340.41	10.46
6574.00	43.20	358.40	6531.88	148.80	-45.72	149.47	155.66	342.92	6.89
6606.00	45.90	357.20	6554.68	171.23	-46.59	171.91	177.45	344.78	8.84
6637.00	49.80	357.60	6575.48	194.18	-47.63	194.87	199.94	346.22	12.62
6669.00	54.20	358.50	6595.18	219.38	-48.48	220.08	224.67	347.54	13.93
6701.00	57.80	.10	6613.07	245.90	-48.79	246.60	250.69	348.78	11.99
6733.00	60.90	.90	6629.38	273.42	-48.55	274.12	277.70	349.93	9.92

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
6764.00	64.30	1.20	6643.64	300.94	-48.05	301.62	304.75	350.93	11.00
6796.00	66.60	.80	6656.94	330.04	-47.54	330.71	333.44	351.80	7.28
6828.00	70.20	.10	6668.72	359.78	-47.31	360.45	362.88	352.51	11.43
6860.00	73.80	.20	6678.60	390.21	-47.23	390.88	393.06	353.10	11.25
6891.00	78.40	359.90	6686.05	420.30	-47.20	420.96	422.94	353.59	14.87
6922.00	82.80	359.20	6691.11	450.87	-47.44	451.53	453.36	353.99	14.37
6964.00	88.80	.30	6694.18	492.74	-47.62	493.40	495.03	354.48	14.52
7058.00	90.70	.30	6694.59	586.73	-47.13	587.37	588.62	355.41	2.02
7151.00	90.10	359.90	6693.95	679.73	-46.97	680.36	681.35	356.05	.78
7245.00	89.70	359.90	6694.11	773.73	-47.13	774.35	775.16	356.51	.43
7338.00	90.50	359.50	6693.95	866.73	-47.62	867.34	868.03	356.86	.96
7433.00	90.50	358.80	6693.12	961.71	-49.03	962.34	962.96	357.08	.74
7526.00	90.30	359.10	6692.47	1054.69	-50.73	1055.34	1055.91	357.25	.39
7620.00	90.10	359.30	6692.14	1148.68	-52.05	1149.34	1149.86	357.41	.30
7714.00	90.00	359.40	6692.06	1242.68	-53.11	1243.33	1243.81	357.55	.15
7807.00	89.80	359.30	6692.22	1335.67	-54.17	1336.33	1336.77	357.68	.24
7901.00	89.90	359.30	6692.47	1429.66	-55.32	1430.33	1430.73	357.78	.11
7994.00	89.10	359.40	6693.28	1522.65	-56.37	1523.33	1523.70	357.88	.87
8088.00	88.90	359.70	6694.92	1616.64	-57.11	1617.31	1617.64	357.98	.38
8181.00	89.80	359.30	6695.97	1709.63	-57.92	1710.30	1710.61	358.06	1.06
8275.00	89.40	358.50	6696.63	1803.60	-59.73	1804.30	1804.59	358.10	.95
8369.00	89.50	358.70	6697.53	1897.57	-62.02	1898.29	1898.59	358.13	.24
8462.00	89.40	358.40	6698.43	1990.54	-64.38	1991.28	1991.58	358.15	.34
8557.00	89.80	359.40	6699.09	2085.52	-66.20	2086.28	2086.57	358.18	1.13
8650.00	90.10	.20	6699.17	2178.52	-66.52	2179.27	2179.53	358.25	.92
8743.00	90.70	359.70	6698.52	2271.51	-66.60	2272.26	2272.49	358.32	.84
8837.00	90.00	.70	6697.95	2365.51	-66.28	2366.24	2366.44	358.40	1.30
8931.00	89.90	359.90	6698.03	2459.51	-65.78	2460.22	2460.39	358.47	.86
9024.00	89.50	359.90	6698.52	2552.50	-65.95	2553.21	2553.36	358.52	.43
9118.00	90.70	.20	6698.35	2646.50	-65.86	2647.19	2647.32	358.57	1.32
9212.00	90.60	.20	6697.29	2740.50	-65.54	2741.17	2741.28	358.63	.11
9306.00	90.50	.30	6696.38	2834.49	-65.13	2835.15	2835.24	358.68	.15
9399.00	90.00	359.80	6695.98	2927.49	-65.05	2928.14	2928.21	358.73	.76
9492.00	90.60	.90	6695.49	3020.48	-64.48	3021.11	3021.17	358.78	1.35
9586.00	90.60	358.90	6694.51	3114.47	-64.64	3115.09	3115.15	358.81	2.13
9680.00	90.10	359.30	6693.93	3208.46	-66.12	3209.09	3209.14	358.82	.68
9773.00	90.10	358.50	6693.77	3301.44	-67.90	3302.09	3302.14	358.82	.86
9866.00	89.80	359.10	6693.85	3394.42	-69.85	3395.09	3395.14	358.82	.72
9960.00	90.30	358.80	6693.77	3488.41	-71.57	3489.09	3489.14	358.82	.62
10053.00	89.50	358.10	6693.93	3581.37	-74.09	3582.08	3582.14	358.81	1.14
10147.00	89.80	359.50	6694.50	3675.34	-76.06	3676.07	3676.13	358.81	1.52

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
10240.00	90.50	359.30	6694.26	3768.34	-77.03	3769.07	3769.13	358.83	.78
10333.00	90.50	.30	6693.45	3861.33	-77.36	3862.06	3862.11	358.85	1.08
10427.00	90.70	359.40	6692.47	3955.33	-77.60	3956.05	3956.09	358.88	.98
10521.00	89.10	358.80	6692.63	4049.31	-79.08	4050.04	4050.08	358.88	1.82
10615.00	90.60	.70	6692.88	4143.30	-79.49	4144.03	4144.07	358.90	2.58
10709.00	90.20	1.00	6692.22	4237.29	-78.09	4237.99	4238.01	358.94	.53
10803.00	90.10	1.70	6691.97	4331.26	-75.88	4331.91	4331.93	359.00	.75
10896.00	90.60	359.60	6691.40	4424.25	-74.82	4424.88	4424.88	359.03	2.32
10990.00	89.50	359.50	6691.32	4518.25	-75.56	4518.87	4518.88	359.04	1.18
11084.00	89.40	359.30	6692.23	4612.24	-76.55	4612.87	4612.87	359.05	.24
11178.00	90.10	359.60	6692.64	4706.23	-77.45	4706.86	4706.87	359.06	.81
11272.00	90.50	.00	6692.14	4800.23	-77.78	4800.86	4800.86	359.07	.60
11366.00	90.00	359.30	6691.73	4894.22	-78.35	4894.85	4894.85	359.08	.92
11460.00	90.20	359.80	6691.57	4988.22	-79.09	4988.85	4988.85	359.09	.57
11553.00	90.70	.00	6690.84	5081.22	-79.25	5081.84	5081.84	359.11	.58
11647.00	91.20	.00	6689.28	5175.20	-79.25	5175.81	5175.81	359.12	.53
TD-PBHL									
11703.00	91.20	.00	6688.11	5231.19	-79.25	5231.79	5231.79	359.13	.00