

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 14 2007

FORM APPROVED
OMB No 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS OCD-AR-ESIA

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.1 Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2 Name of Operator
COG Operating LLC3a Address
550 W. Texas Ave., Suite 1300 Midland, TX 797013b. Phone No. (include area code)
432-685-43324 Location of Well (Footage, Sec, T., R., M., or Survey Description)
1665 FSL & 1026 FWL Section 23 T-16S R-28E Unit L
1644 FSL & 441 FEL Section 23 T-16S R-28E Unit I

5. Lease Serial No

NM - 117117

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Moose 23 Federal #1Y

9. API Well No.

30-015-35755

10 Field and Pool, or Exploratory Area
Crow Flats Wolfcamp

11. County or Parish, State

EDDY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Completion
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

09-21-07 Perf w/ 6 JSPF @ 9,730-9732, 9746-9748, 10118-10120, 10158-10160, 10214-10216 (60 holes).

09-25-07 Acidize w/ 5,000 gals acid. Frac w/ 8000# LiteProp, 11,250# 100 mesh sand, 72,500# 16/30 sand, 15,000# RC Siberprop.

09-26-07 Perf w/ 6 JSPF @ 9302-9304, 9198-9200, 9112-9114, 9006-9008, 8850-8852 (60 holes).

Acidize w/ 5,000 gals acid. Frac w/ 10,965# 100 mesh sand, 77,455# 16/30 sand, 16,238# RC Siberprop.

Perf w/ 6 JSPF @ 8568-8570, 8456-8458, 8396-8398, 8258-8260, 8184-8186 (60 holes).

Acidize w/ 5,000 gals acid. Frac w/ 8,000# Lite prop, 11,000# 100 mesh sand, 75,000# 16/30 sand, 15,000# RC Siberprop.

09-27-07 Perf w/ 6 JSPF @ 7970-7972, 7868-7870, 7840-7842, 7710-7712, 7610-7612 (60 holes).

Acidize w/ 5,000 gals acid. Frac w/ 4,600# Lite prop, 10,522# 100 mesh sand, 53,033# 16/30 sand, 14,693# RC Siberprop.

Perf w/ 6 JSPF @ 7198-7200, 7150-7152, 7128-7130, 7048-7050, 7004-7006 (60 holes).

Acidize w/ 5,700 gals acid. Frac w/ 3,731# Lite prop, 4,239# 100 mesh sand, 81,924# 16/30 sand, 13,335# RC Siberprop.

10-11-07 RIH w/ 200 jts 2-7/8" N80 tbg,

10-12-07 RIH w/ 40 jts 2-7/8" J55 tbg, SN @ 5989'.

10-18-07 RIH w/ 2-1/2" x 2" x 24' ESP pump. Hang well on.

14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Kania Carrillo

Title Regulatory Analyst

Signature



Date

11/11/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 USC Section 1001 and Title 43 USC Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

EXHIBIT "A"

DISTRICT I

1035 N. French Dr., Santa Fe, NM 87505

DISTRICT II

1801 E. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 N. Main St., Aztec, NM 87410

DISTRICT IV

1200 E. 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

OCD-ARTESIA

Form C-102

Revised October 12, 2006

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35755	Pool Code 97102	Pool Name Crow Flats; Wolfcamp
Property Code 36529	Property Name MOOSE "23" FEDERAL	Well Number 1Y
OSHD No. 229137	Operator Name C.O.G. OPERATING L.L.C.	Elevation 3756'

Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	23	16 S	28 E		1665	SOUTH	1026	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
I	23	16 S	28 E		1644	SOUTH	441	EAST	EDDY

Dedicated Acres 160	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

SURFACE LOCATION LAT-N32°54'22.0" LONG-W104°09'07.9" (NAD-83) PROJECT AREA PRODUCING AREA 3759.9' 3749.8' 1026' 3756.2' 3747.8' 1665' 3816.85 441' BHL 1644'	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 representation either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Phyllis A. Edwards</i> 7/2/07 Signature Date PHYLLIS A. EDWARDS Printed Name REGULATORY MANAGER
	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 11, 2007 Date Surveyed <i>[Signature]</i> Signature of Professional Surveyor WIS 12341 Professional Surveyor No. Certificate No. Gary L. Jones 7977 BASIN SURVEYS

Actual Wellpath Report

#1Y AWP
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OCD-ARTESIA INTEQ



REFERENCE WELLPATH IDENTIFICATION

Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	Gomeoscr
Scale	0.999913	Report Generated	09/04/07 at 08:22:22
Wellbore last revised	08/13/07	Database/Source file	WA_Midland/#1Y_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	596995.77	693424.17	32 54 21.988N	104 09 07.119W
Facility Reference Pt			596995.77	693424.17	32 54 21.988N	104 09 07.119W
Field Reference Pt			596929.22	693425.25	32 54 22.000N	104 09 07.900W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on #1Y SHL (RT) to Facility Vertical Datum	21.00 feet
Horizontal Reference Pt	Facility Center	Rig on #1Y SHL (RT) to GRN. ELEV.	3777.00 feet
Vertical Reference Pt	Rig on #1Y SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #1Y SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	GRN. ELEV.	Section Azimuth	90.29°

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	
100.00	0.440	34.400	100.00	0.22	0.32	0.22	0.44	
200.00	0.460	75.330	200.00	0.82	0.74	0.82	0.32	
300.00	0.310	51.700	299.99	1.42	1.00	1.42	0.22	
400.00	0.540	344.280	399.99	1.50	1.63	1.51	0.51	
500.00	0.800	328.160	499.98	1.00	2.67	1.01	0.32	
600.00	0.800	328.300	599.98	0.26	3.86	0.28	0.00	
700.00	0.900	325.010	699.96	-0.57	5.10	-0.54	0.11	
800.00	0.840	329.770	799.95	-1.39	6.37	-1.36	0.09	
900.00	0.910	348.240	899.94	-1.93	7.78	-1.89	0.29	
1000.00	0.710	343.400	999.93	-2.28	9.16	-2.23	0.21	
1100.00	0.600	336.080	1099.92	-2.67	10.23	-2.62	0.14	
1200.00	0.610	348.480	1199.92	-2.99	11.23	-2.94	0.13	
1300.00	0.470	328.170	1299.91	-3.32	12.10	-3.26	0.24	
1400.00	0.270	348.090	1399.91	-3.59	12.68	-3.53	0.23	
1500.00	0.390	340.720	1499.91	-3.75	13.23	-3.69	0.13	
1600.00	0.280	337.300	1599.91	-3.96	13.78	-3.89	0.11	
1700.00	0.410	345.990	1699.91	-4.15	14.35	-4.07	0.14	
1800.00	0.400	339.580	1799.90	-4.36	15.02	-4.28	0.05	
1900.00	0.470	0.940	1899.90	-4.48	15.76	-4.40	0.18	
2000.00	0.630	343.640	1999.90	-4.63	16.70	-4.55	0.23	
2100.00	0.710	338.030	2099.89	-5.02	17.80	-4.93	0.10	
2200.00	0.530	337.220	2199.88	-5.44	18.80	-5.34	0.18	
2300.00	0.680	349.300	2299.88	-5.73	19.81	-5.63	0.20	
2400.00	0.540	348.430	2399.87	-5.94	20.85	-5.84	0.14	

Actual Wellpath Report

#1Y AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWP
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
2500.00	0.420	346.670	2499.87	-6.12	21.67	-6.02	0.12	
2600.00	0.600	339.890	2599.87	-6.39	22.52	-6.28	0.19	
2700.00	0.470	352.530	2699.86	-6.63	23.42	-6.51	0.17	
2800.00	0.570	340.660	2799.86	-6.85	24.30	-6.73	0.15	
2900.00	0.510	355.930	2899.85	-7.05	25.21	-6.93	0.16	
3000.00	0.430	321.650	2999.85	-7.32	25.95	-7.19	0.29	
3100.00	0.240	335.380	3099.85	-7.65	26.43	-7.51	0.20	
3200.00	0.370	269.830	3199.85	-8.06	26.62	-7.92	0.35	
3300.00	0.210	355.220	3299.85	-8.40	26.80	-8.26	0.41	
3400.00	0.330	316.740	3399.84	-8.61	27.20	-8.47	0.21	
3500.00	0.340	265.500	3499.84	-9.10	27.38	-8.97	0.29	
3600.00	0.560	299.740	3599.84	-9.83	27.60	-9.69	0.34	
3700.00	0.660	314.620	3699.83	-10.66	28.25	-10.52	0.19	
3800.00	0.560	280.340	3799.83	-11.56	28.74	-11.41	0.37	
3900.00	0.630	312.810	3899.82	-12.44	29.20	-12.30	0.34	
4000.00	0.560	276.150	3999.82	-13.33	29.63	-13.19	0.38	
4100.00	0.710	318.950	4099.81	-14.23	30.15	-14.08	0.48	
4200.00	1.040	299.110	4199.80	-15.43	31.06	-15.28	0.44	
4300.00	1.030	290.400	4299.79	-17.07	31.81	-16.91	0.16	
4368.00	1.140	301.810	4367.77	-18.22	32.38	-18.06	0.36	
4400.00	1.080	294.510	4399.77	-18.77	32.67	-18.61	0.48	
4500.00	1.220	298.340	4499.75	-20.57	33.57	-20.40	0.16	
4600.00	1.140	295.590	4599.73	-22.41	34.50	-22.23	0.10	
4700.00	1.220	296.920	4699.71	-24.26	35.42	-24.08	0.08	
4800.00	1.180	303.290	4799.68	-26.07	36.46	-25.89	0.14	

Actual Wellpath Report

#1Y AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
4900.00	1.150	300.000	4899.66	-27.81	37.53	-27.62	0.07	
5000.00	1.130	294.660	4999.64	-29.58	38.44	-29.39	0.11	
5100.00	0.940	297.760	5099.63	-31.20	39.24	-31.01	0.20	
5200.00	0.920	297.680	5199.61	-32.64	39.99	-32.44	0.02	
5300.00	0.760	283.590	5299.60	-34.00	40.52	-33.80	0.26	
5400.00	0.710	284.770	5399.59	-35.25	40.83	-35.04	0.05	
5500.00	0.610	282.260	5499.59	-36.37	41.11	-36.16	0.10	
5600.00	0.850	276.020	5599.58	-37.63	41.30	-37.42	0.25	
5700.00	0.920	269.830	5699.57	-39.17	41.37	-38.96	0.12	
5800.00	0.910	263.000	5799.56	-40.76	41.27	-40.55	0.11	
5900.00	0.870	265.270	5899.54	-42.30	41.11	-42.10	0.05	
6000.00	0.700	275.240	5999.53	-43.67	41.11	-43.46	0.22	
6100.00	0.810	297.940	6099.53	-44.90	41.49	-44.69	0.32	
6200.00	0.680	310.300	6199.52	-45.98	42.21	-45.77	0.21	
6238.00	0.400	289.420	6237.51	-46.28	42.40	-46.07	0.89	Tie In
6262.00	0.400	9.400	6261.51	-46.35	42.51	-46.13	2.14	
6294.00	1.300	66.700	6293.51	-46.00	42.76	-45.78	3.55	
6325.00	3.800	84.600	6324.48	-44.65	43.00	-44.44	8.37	
6357.00	7.600	94.100	6356.31	-41.48	42.95	-41.27	12.20	
6389.00	11.900	100.100	6387.85	-36.12	42.22	-35.91	13.79	
6421.00	16.900	102.500	6418.83	-28.32	40.63	-28.11	15.73	
6453.00	21.500	100.800	6449.04	-18.00	38.52	-17.81	14.48	
6485.00	25.400	99.400	6478.39	-5.45	36.30	-5.27	12.31	
6517.00	28.900	98.300	6506.86	8.98	34.07	9.16	11.05	
6549.00	31.800	97.300	6534.48	25.01	31.88	25.17	9.20	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWP
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
6581.00	34.800	96.900	6561.22	42.46	29.71	42.61	9.40	
6613.00	37.600	95.800	6587.04	61.25	27.62	61.39	8.98	
6645.00	40.600	95.500	6611.87	81.34	25.64	81.47	9.39	
6677.00	44.900	93.400	6635.36	103.00	23.97	103.12	14.16	
6709.00	48.100	93.400	6657.39	126.17	22.59	126.29	10.00	
6740.00	51.100	91.300	6677.48	149.76	21.64	149.87	10.97	
6771.00	54.200	90.900	6696.28	174.40	21.16	174.51	10.05	
6803.00	57.200	90.600	6714.32	200.83	20.82	200.94	9.41	
6835.00	59.700	91.600	6731.06	228.09	20.29	228.20	8.25	
6866.00	62.900	90.900	6745.94	255.28	19.70	255.38	10.51	
6898.00	66.200	90.900	6759.69	284.17	19.25	284.27	10.31	
6930.00	70.300	90.900	6771.55	313.88	18.78	313.98	12.81	
6962.00	73.700	91.300	6781.43	344.31	18.20	344.40	10.69	
6993.00	77.200	91.300	6789.22	374.30	17.52	374.40	11.29	
7025.00	80.800	91.300	6795.33	405.70	16.80	405.79	11.25	
7057.00	84.200	91.600	6799.50	437.42	16.00	437.51	10.67	
7089.00	87.100	90.600	6801.93	469.32	15.39	469.40	9.58	
7119.00	87.400	89.200	6803.37	499.28	15.44	499.37	4.77	
7151.00	88.200	87.400	6804.60	531.24	16.39	531.33	6.15	
7183.00	87.900	87.400	6805.69	563.18	17.84	563.28	0.94	
7215.00	87.800	87.400	6806.89	595.12	19.29	595.22	0.31	
7246.00	87.900	87.800	6808.05	626.06	20.59	626.17	1.33	
7277.00	88.500	89.200	6809.02	657.03	21.40	657.15	4.91	
7309.00	88.500	89.900	6809.86	689.02	21.65	689.13	2.19	
7340.00	88.100	89.900	6810.78	720.00	21.70	720.12	1.29	

Actual Wellpath Report

#1Y AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
7372.00	87.800	90.200	6811.93	751.98	21.68	752.10	1.33	
7404.00	87.800	90.200	6813.15	783.96	21.57	784.08	0.00	
7436.00	87.600	90.600	6814.44	815.93	21.34	816.05	1.40	
7468.00	88.000	90.900	6815.67	847.91	20.92	848.02	1.56	
7500.00	88.600	91.600	6816.62	879.89	20.23	880.00	2.88	
7532.00	88.800	90.900	6817.34	911.88	19.53	911.98	2.27	
7564.00	88.600	91.300	6818.07	943.86	18.91	943.97	1.40	
7595.00	89.300	89.900	6818.64	974.86	18.59	974.96	5.05	
7626.00	88.600	90.600	6819.20	1005.85	18.45	1005.96	3.19	
7659.00	88.500	90.200	6820.04	1038.84	18.22	1038.95	1.25	
7690.00	89.000	90.600	6820.72	1069.83	18.01	1069.94	2.07	
7722.00	89.700	90.600	6821.08	1101.83	17.67	1101.93	2.19	
7753.00	89.500	90.600	6821.30	1132.83	17.35	1132.93	0.65	
7785.00	89.200	90.600	6821.66	1164.83	17.01	1164.93	0.94	
7817.00	89.400	90.600	6822.05	1196.82	16.68	1196.92	0.62	
7849.00	89.300	90.200	6822.41	1228.82	16.45	1228.92	1.29	
7881.00	89.200	89.900	6822.83	1260.82	16.43	1260.92	0.99	
7913.00	89.400	89.500	6823.22	1292.81	16.59	1292.91	1.40	
7945.00	89.500	89.500	6823.53	1324.81	16.87	1324.91	0.31	
7977.00	89.600	90.600	6823.78	1356.81	16.84	1356.91	3.45	
8009.00	89.800	91.300	6823.95	1388.81	16.31	1388.90	2.28	
8041.00	89.400	91.300	6824.17	1420.80	15.59	1420.90	1.25	
8073.00	89.200	91.300	6824.56	1452.79	14.86	1452.89	0.62	
8101.00	89.000	92.300	6825.00	1480.78	13.98	1480.87	3.64	
8133.00	88.500	93.000	6825.70	1512.74	12.50	1512.83	2.69	

Actual Wellpath Report

#1Y AWP
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
8164.00	88.500	92.700	6826.51	1543.70	10.96	1543.78	0.97	
8196.00	88.200	92.000	6827.43	1575.67	9.65	1575.74	2.38	
8228.00	88.200	91.600	6828.44	1607.64	8.65	1607.70	1.25	
8260.00	88.400	91.600	6829.39	1639.62	7.75	1639.68	0.62	
8292.00	88.300	91.600	6830.31	1671.60	6.86	1671.65	0.31	
8324.00	88.700	90.900	6831.15	1703.58	6.16	1703.63	2.52	
8355.00	88.600	90.900	6831.88	1734.57	5.68	1734.62	0.32	
8386.00	88.400	90.900	6832.69	1765.56	5.19	1765.61	0.65	
8418.00	88.600	89.900	6833.53	1797.55	4.97	1797.59	3.19	
8450.00	88.700	89.200	6834.28	1829.53	5.22	1829.58	2.21	
8482.00	89.400	89.200	6834.81	1861.52	5.66	1861.58	2.19	
8514.00	89.500	89.200	6835.12	1893.52	6.11	1893.57	0.31	
8545.00	89.300	89.500	6835.44	1924.51	6.46	1924.57	1.16	
8577.00	89.200	89.200	6835.86	1956.50	6.83	1956.56	0.99	
8609.00	89.000	89.500	6836.36	1988.50	7.19	1988.56	1.13	
8641.00	88.700	89.500	6837.01	2020.49	7.47	2020.55	0.94	
8673.00	88.600	89.900	6837.76	2052.48	7.64	2052.54	1.29	
8705.00	88.200	89.900	6838.65	2084.46	7.69	2084.53	1.25	
8736.00	88.000	89.500	6839.68	2115.44	7.85	2115.51	1.44	
8768.00	88.200	88.900	6840.74	2147.42	8.30	2147.49	1.98	
8800.00	88.700	89.500	6841.61	2179.40	8.75	2179.47	2.44	
8832.00	89.600	89.900	6842.08	2211.40	8.91	2211.47	3.08	
8864.00	90.000	89.900	6842.19	2243.40	8.97	2243.47	1.25	
8896.00	89.900	89.500	6842.22	2275.39	9.14	2275.47	1.29	
8928.00	89.900	90.200	6842.28	2307.39	9.22	2307.47	2.19	

Actual Wellpath Report

#1Y AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
8960.00	89.800	90.600	6842.36	2339.39	9.00	2339.47	1.29	
8991.00	89.300	90.900	6842.61	2370.39	8.59	2370.46	1.88	
9023.00	89.300	90.600	6843.00	2402.39	8.17	2402.46	0.94	
9055.00	89.900	90.600	6843.22	2434.39	7.84	2434.46	1.87	
9087.00	90.100	90.600	6843.22	2466.39	7.50	2466.45	0.62	
9119.00	89.900	90.600	6843.22	2498.38	7.17	2498.45	0.62	
9151.00	89.400	90.900	6843.42	2530.38	6.75	2530.45	1.82	
9183.00	89.000	91.300	6843.86	2562.38	6.13	2562.44	1.77	
9215.00	88.900	90.900	6844.45	2594.37	5.52	2594.43	1.29	
9246.00	89.200	91.300	6844.96	2625.36	4.93	2625.42	1.61	
9279.00	90.000	90.600	6845.19	2658.36	4.38	2658.41	3.22	
9310.00	89.900	90.600	6845.22	2689.36	4.05	2689.41	0.32	
9341.00	89.600	91.300	6845.36	2720.35	3.54	2720.41	2.46	
9373.00	89.600	91.300	6845.58	2752.35	2.81	2752.40	0.00	
9405.00	89.100	91.600	6845.94	2784.34	2.00	2784.38	1.82	
9437.00	89.300	91.300	6846.39	2816.33	1.19	2816.37	1.13	
9469.00	89.500	91.600	6846.72	2848.32	0.38	2848.36	1.13	
9500.00	89.300	91.600	6847.05	2879.31	-0.48	2879.35	0.65	
9532.00	90.200	91.600	6847.19	2911.30	-1.37	2911.33	2.81	
9564.00	90.500	91.600	6846.99	2943.29	-2.27	2943.32	0.94	
9596.00	90.300	91.600	6846.77	2975.28	-3.16	2975.31	0.62	
9627.00	90.000	91.600	6846.69	3006.28	-4.03	3006.29	0.97	
9659.00	89.700	91.600	6846.77	3038.27	-4.92	3038.28	0.94	
9691.00	89.300	92.000	6847.05	3070.25	-5.93	3070.26	1.77	
9723.00	89.000	92.000	6847.53	3102.24	-7.04	3102.24	0.94	

Actual Wellpath Report

#1Y AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

WELLPATH DATA (197 stations)								
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [%/100ft]	Path Comment
9754.00	88.600	92.000	6848.17	3133.22	-8.12	3133.21	1.29	
9786.00	88.600	92.000	6848.96	3165.19	-9.24	3165.19	0.00	
9818.00	88.700	91.600	6849.71	3197.17	-10.25	3197.16	1.29	
9848.00	88.500	92.000	6850.44	3227.15	-11.19	3227.14	1.49	
9881.00	88.700	92.000	6851.25	3260.13	-12.34	3260.11	0.61	
9913.00	88.900	91.600	6851.92	3292.11	-13.34	3292.08	1.40	
9944.00	88.900	90.900	6852.51	3323.10	-14.02	3323.07	2.26	
9976.00	88.600	90.900	6853.21	3355.09	-14.52	3355.06	0.94	
10008.00	88.400	91.300	6854.05	3387.08	-15.14	3387.04	1.40	
10040.00	88.500	91.300	6854.92	3419.06	-15.86	3419.02	0.31	
10071.00	88.500	91.300	6855.73	3450.04	-16.56	3450.00	0.00	
10103.00	88.000	91.300	6856.70	3482.02	-17.29	3481.98	1.56	
10135.00	87.600	91.300	6857.93	3514.00	-18.02	3513.95	1.25	
10167.00	87.500	90.900	6859.30	3545.96	-18.63	3545.91	1.29	
10198.00	88.200	90.600	6860.46	3576.94	-19.04	3576.89	2.46	
10230.00	89.100	90.600	6861.22	3608.93	-19.37	3608.88	2.81	
10262.00	89.300	90.200	6861.66	3640.93	-19.59	3640.87	1.40	
10293.00	89.000	90.600	6862.12	3671.92	-19.81	3671.87	1.61	
10325.00	88.800	90.600	6862.74	3703.92	-20.15	3703.86	0.62	
10357.00	88.500	90.600	6863.49	3735.91	-20.48	3735.85	0.94	
10383.00	88.100	90.600	6864.26	3761.90	-20.75	3761.84	1.54	
10438.00	87.400	90.600	6866.42	3816.85	-21.33	3816.79	1.27	Proj. to Bit

Actual Wellpath Report

#1Y AWP
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1Y SHL
Area	Eddy County, NM	Well	#1Y
Field	Section 23 T16S R28E(Moose)	Wellbore	#1Y AWB
Facility	Moose 23 Federal #1Y		

TARGETS									
Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
BHL		6869.00	-19.43	3866.94	600862.36	693404.74	32 54 21.728N	104 08 21.764W	point

WELLPATH COMPOSITION					Ref Wellbore: #1Y AWB	Ref Wellpath: #1Y AWP
Start MD [feet]	End MD [feet]	Positional Uncertainty Model		Log Name/Comment		Wellbore
0.00	4368.00	Generic gyro - northseeking (Standard)		Gyro		#1Y AWB
4368.00	6238.00	Generic gyro - northseeking (Standard)		Gyro2		#1Y AWB
6238.00	10438.00	NaviTrak (Standard)		MWD		#1Y AWB

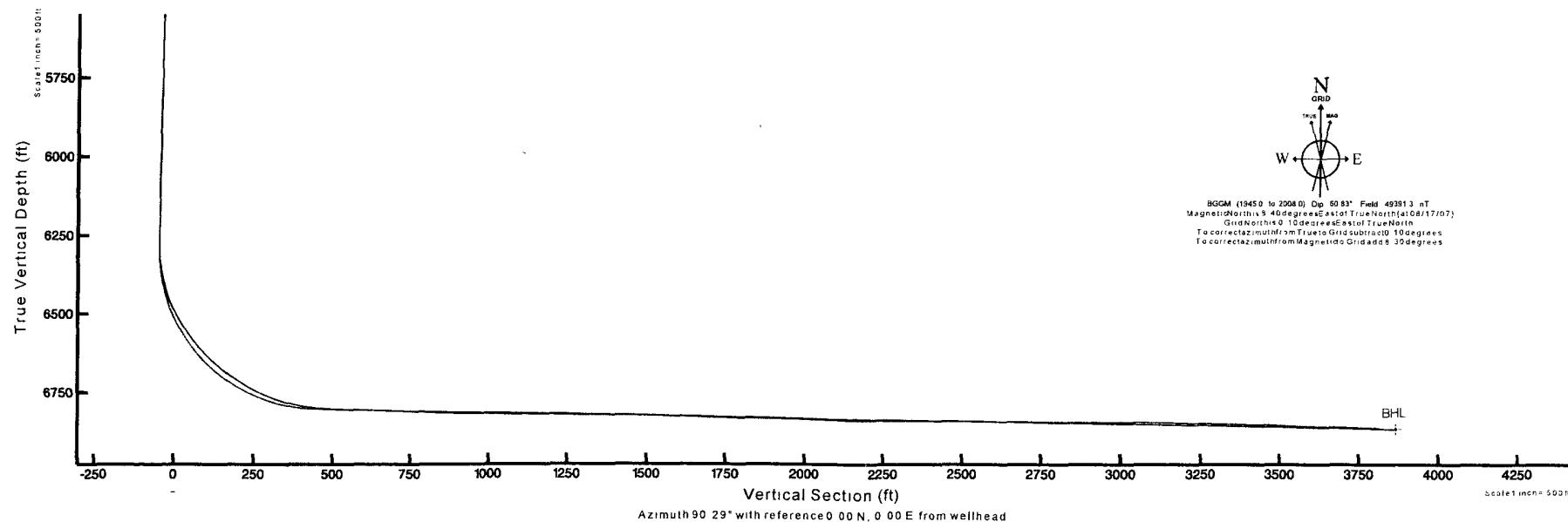
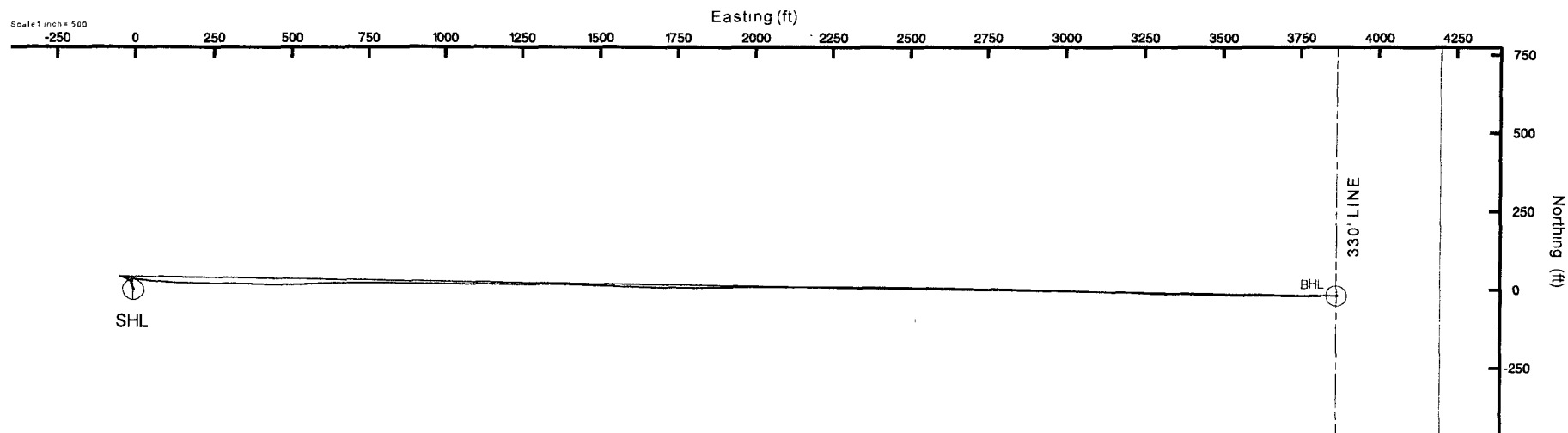
Concho O&G

Location Eddy County NM
Field Section 23 T16S R28E (Moose)
Facility Moose 23 Federal #1Y

Slot #1Y SHL
Well #1Y
Wellbore #1Y AWP

**BAKER
HUGHES**
INTEQ

Plot reference wellpath is #1Y AWP	
True vertical depths are referenced to Rig on #1Y SHL (RT)	Grid System NAD83 / T.M. New Mexico State Planes Eastern Zone (1001) US Feet
Measured depths are referenced to Rig on #1Y SHL (RT)	North Reference Grid north
Rig on #1Y SHL (RT) is GRN ELEV 3777 feet	Scale True distance
GRN ELEV to Mud line (Facility - Moose 23 Federal #1Y) 3755 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by: gomecson 9/4/2007



N
GRID
True
MAG
W E

BGGM (1945.0 to 2008.0) Dip 60.83° Field 49381.3 nT
Magnetic North is 40 degrees East of True North (at 08/17/07)
Grid North is 10 degrees East of True North
To correct azimuth from True to Grid subtract 10 degrees
To correct azimuth from Magnetic to Grid add 30 degrees