

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*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 ☐ Other		5. Lease Serial No. NMNM58935
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact DEBORA WILBOURN E-Mail: dwilbourn@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 2208 W MAIN ST ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-6958	8. Well Name and No. DIRTY DOZEN FEDERAL COM 4H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 36 T19S R31E NESE 1650FSL 990FEL		9. API Well No. 30-015-38150
10. Field and Pool, or Exploratory WILLIAMS SINK		11. County or Parish, and State EDDY COUNTY, NM

RECEIVED
SEP 17 2012
NMOCD ARTESIA**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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 recompleat 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.)

COG respectfully requests the following changes to the original APD:

Change MD/TVD:
From - 14887' MD/9400' TVD
To - 15003' MD/9390' TVD
(see attached directional plan)

Cmt to surface in one stg as follows:
Lead - 950 sx 50:50:10 H + Salt + Gilsonite + CF + CFR-3 @ 11.8 ppg/2.5 yield
Tail - 1200 sx 50:50:2 H + Salt + GasStop + CFR-3 @ 14.4/1.25 yield
Minimum tie back to 200? into 9-5/8? csg shoe (designed to circ cmt to sfc)
35% excess on OH

Accepted for record
NMOCDJES
7/17/2012**ACCEPTED FOR RECORD**
SEP 13 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. Thereby certify that the foregoing is true and correct

Electronic Submission #144336 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 08/03/2012 ()

Name (Printed/Typed) DEBORA WILBOURN

Title DRLG ENGINEERING TECH

Signature (Electronic Submission)

Date 07/31/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By	Title	Date
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		Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. 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

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****



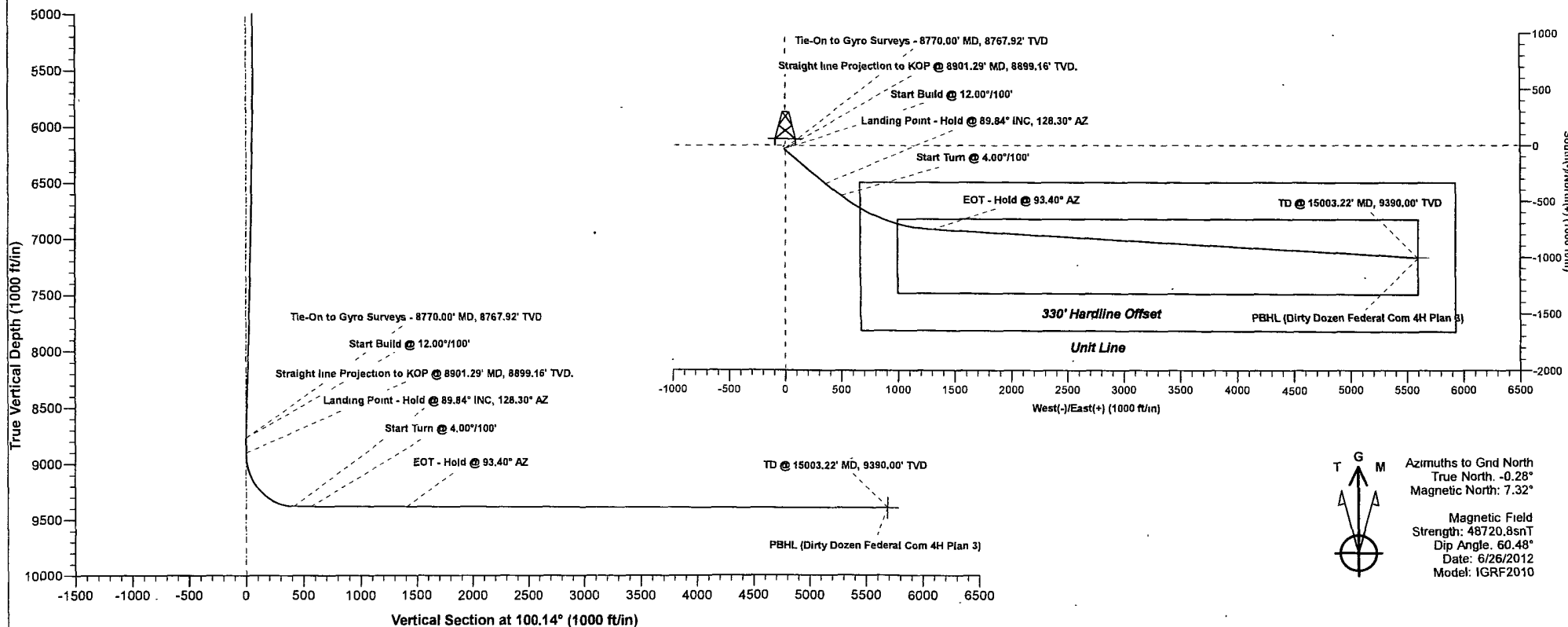
COG Operating LLC
Dirty Dozen Federal Com 4H
Eddy County, NM
Plan #4



Surface Location		Ground Elev: 3497.00 WELL @ 3518.00ft (Original Well Elev)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	587517.800	659359.400	32.614121	-103.815790

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL (Dirty Dozen Federal Com 4H Plan 3)	9390.00	-1002.40	5603.00	586515.400	664962.400	32.611289	-103.797610

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	8770.00	1.54	213.48	8767.92	-27.88	-1.31	0.00	0.00	3.62	
2	8901.29	1.54	213.48	8899.16	-30.82	-3.26	0.00	0.00	2.22	
3	9648.88	89.84	128.30	9375.38	-335.90	362.52	12.00	-85.19	416.00	
4	9818.88	89.84	128.30	9375.85	-441.26	495.92	0.00	0.00	565.88	
5	10691.49	89.84	93.40	9378.33	-747.03	1298.85	4.00	-90.04	1410.11	
6	15003.22	89.84	93.40	9390.00	-1002.40	5603.00	0.00	0.00	5691.96	PBHL (Dirty Dozen Federal Com 4H Plan 3)



COG Operating LLC

Eddy County, NM

Dirty Dozen Federal Com 4H

Dirty Dozen Federal Com 4H

Wellbore #1

Plan: Plan #4

Standard Planning Report

27 July, 2012

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Dirty Dozen Federal Com 4H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3518.00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3518.00ft (Original Well Elev)
Site:	Dirty Dozen Federal Com 4H	North Reference:	Grid
Well:	Dirty Dozen Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4		

Project:	Eddy County, NM		
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:	Dirty Dozen Federal Com 4H		
Site Position:		Northing:	587,517.800 ft
From:	Map	Easting:	659,359.400 ft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.614121
		Longitude:	-103.815790
		Grid Convergence:	0.28 °

Well	Dirty Dozen Federal Com 4H					
Well Position	+N/-S	0.00 ft	Northing:	587,517.800 ft	Latitude:	32.614121
	+E/-W	0.00 ft	Easting:	659,359.400 ft	Longitude:	-103.815790
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,497.00 ft

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	6/26/2012	7.60	60.48	48,721

Design:	Plan #4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	8,770.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	100.14

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
8,770.00	1.54	213.48	8,767.92	-27.88	-1.31	0.00	0.00	0.00	0.00	
8,901.29	1.54	213.48	8,899.16	-30.82	-3.26	0.00	0.00	0.00	0.00	
9,648.88	89.84	128.30	9,375.38	-335.90	362.52	12.00	11.81	-11.39	-85.19	
9,818.88	89.84	128.30	9,375.85	-441.26	495.92	0.00	0.00	0.00	0.00	
10,691.49	89.84	93.40	9,378.33	-747.03	1,298.85	4.00	0.00	-4.00	-90.04	
15,003.22	89.84	93.40	9,390.00	-1,002.40	5,603.00	0.00	0.00	0.00	0.00	PBHL (Dirty Dozen Fe

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Dirty Dozen Federal Com 4H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3518.00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3518.00ft (Original Well Elev)
Site:	Dirty Dozen Federal Com 4H	North Reference:	Grid
Well:	Dirty Dozen Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,770.00	1.54	213.48	8,767.92	-27.88	-1.31	3.62	0.00	0.00	0.00	
Tie-On-to Gyro Surveys - 8,770.00' MD, 8,767.92' TVD - Start Build @ 12.00°/100'										
8,800.00	1.54	213.48	8,797.91	-28.55	-1.75	3.30	0.00	0.00	0.00	
8,900.00	1.54	213.48	8,897.88	-30.79	-3.24	2.24	0.00	0.00	0.00	
8,901.29	1.54	213.48	8,899.16	-30.82	-3.26	2.22	0.00	0.00	0.00	
Straight Line Projection to KOP @ 8901.29' MD, 8899.16' TVD:										
9,000.00	12.07	135.49	8,997.11	-39.32	3.27	10.14	12.00	10.67	-79.01	
9,100.00	24.02	131.74	9,092.03	-60.41	25.87	36.10	12.00	11.95	-3.75	
9,200.00	36.00	130.41	9,178.46	-93.13	63.57	78.98	12.00	11.98	-1.33	
9,300.00	47.99	129.68	9,252.64	-136.06	114.74	136.90	12.00	11.99	-0.73	
9,400.00	59.99	129.18	9,311.33	-187.32	177.12	207.34	12.00	11.99	-0.50	
9,500.00	71.98	128.80	9,351.96	-244.68	248.00	287.21	12.00	11.99	-0.39	
9,600.00	83.98	128.46	9,372.74	-305.61	324.27	373.02	12.00	12.00	-0.34	
9,648.88	89.84	128.30	9,375.38	-335.90	362.52	416.01	12.00	12.00	-0.32	
Landing Point - Hold @ 89.84° INC, 128.30° AZ:										
9,700.00	89.84	128.30	9,375.52	-367.59	402.63	461.08	0.00	0.00	0.00	
9,800.00	89.84	128.30	9,375.80	-429.56	481.11	549.24	0.00	0.00	0.00	
9,818.88	89.84	128.30	9,375.85	-441.27	495.93	565.89	0.00	0.00	0.00	
Start Turn @ 4.00°/100'										
9,900.00	89.84	125.06	9,376.08	-489.71	560.98	638.45	4.00	0.00	-4.00	
10,000.00	89.84	121.05	9,376.37	-544.25	644.78	730.54	4.00	0.00	-4.00	
10,100.00	89.83	117.05	9,376.65	-592.80	732.17	825.13	4.00	0.00	-4.00	
10,200.00	89.83	113.05	9,376.94	-635.14	822.74	921.74	4.00	0.00	-4.00	
10,300.00	89.84	109.05	9,377.23	-671.06	916.05	1,019.91	4.00	0.00	-4.00	
10,400.00	89.84	105.05	9,377.52	-700.38	1,011.63	1,118.16	4.00	0.00	-4.00	
10,500.00	89.84	101.05	9,377.80	-722.97	1,109.03	1,219.01	4.00	0.00	-4.00	
10,600.00	89.84	97.05	9,378.08	-738.70	1,207.76	1,318.97	4.00	0.00	-4.00	
10,691.49	89.84	93.40	9,378.33	-747.03	1,298.85	1,410.11	4.00	0.00	-4.00	
EOT - Hold @ 93.40° AZ:										
10,700.00	89.84	93.40	9,378.35	-747.54	1,307.35	1,418.56	0.00	0.00	0.00	
10,800.00	89.84	93.40	9,378.62	-753.46	1,407.17	1,517.87	0.00	0.00	0.00	
10,900.00	89.84	93.40	9,378.89	-759.38	1,507.00	1,617.18	0.00	0.00	0.00	
11,000.00	89.84	93.40	9,379.17	-765.30	1,606.82	1,716.48	0.00	0.00	0.00	
11,100.00	89.84	93.40	9,379.44	-771.23	1,706.64	1,815.79	0.00	0.00	0.00	
11,200.00	89.84	93.40	9,379.71	-777.15	1,806.47	1,915.10	0.00	0.00	0.00	
11,300.00	89.84	93.40	9,379.98	-783.07	1,906.29	2,014.40	0.00	0.00	0.00	
11,400.00	89.84	93.40	9,380.25	-788.99	2,006.12	2,113.71	0.00	0.00	0.00	
11,500.00	89.84	93.40	9,380.52	-794.92	2,105.94	2,213.02	0.00	0.00	0.00	
11,600.00	89.84	93.40	9,380.79	-800.84	2,205.77	2,312.33	0.00	0.00	0.00	
11,700.00	89.84	93.40	9,381.06	-806.76	2,305.59	2,411.63	0.00	0.00	0.00	
11,800.00	89.84	93.40	9,381.33	-812.68	2,405.41	2,510.94	0.00	0.00	0.00	
11,900.00	89.84	93.40	9,381.60	-818.61	2,505.24	2,610.25	0.00	0.00	0.00	
12,000.00	89.84	93.40	9,381.87	-824.53	2,605.06	2,709.55	0.00	0.00	0.00	
12,100.00	89.84	93.40	9,382.14	-830.45	2,704.89	2,808.86	0.00	0.00	0.00	
12,200.00	89.84	93.40	9,382.41	-836.38	2,804.71	2,908.17	0.00	0.00	0.00	
12,300.00	89.84	93.40	9,382.68	-842.30	2,904.53	3,007.47	0.00	0.00	0.00	
12,400.00	89.84	93.40	9,382.95	-848.22	3,004.36	3,106.78	0.00	0.00	0.00	
12,500.00	89.84	93.40	9,383.23	-854.14	3,104.18	3,206.09	0.00	0.00	0.00	
12,600.00	89.84	93.40	9,383.50	-860.07	3,204.01	3,305.39	0.00	0.00	0.00	
12,700.00	89.84	93.40	9,383.77	-865.99	3,303.83	3,404.70	0.00	0.00	0.00	
12,800.00	89.84	93.40	9,384.04	-871.91	3,403.65	3,504.01	0.00	0.00	0.00	
12,900.00	89.84	93.40	9,384.31	-877.83	3,503.48	3,603.32	0.00	0.00	0.00	
13,000.00	89.84	93.40	9,384.58	-883.76	3,603.30	3,702.62	0.00	0.00	0.00	
13,100.00	89.84	93.40	9,384.85	-889.68	3,703.13	3,801.93	0.00	0.00	0.00	

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Dirty Dozen Federal Com 4H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3518.00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3518.00ft (Original Well Elev)
Site:	Dirty Dozen Federal Com 4H	North Reference:	Grid
Well:	Dirty Dozen Federal Com 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,200.00	89.84	93.40	9,385.12	-895.60	3,802.95	3,901.24	0.00	0.00	0.00	
13,300.00	89.84	93.40	9,385.39	-901.52	3,902.77	4,000.54	0.00	0.00	0.00	
13,400.00	89.84	93.40	9,385.66	-907.45	4,002.60	4,099.85	0.00	0.00	0.00	
13,500.00	89.84	93.40	9,385.93	-913.37	4,102.42	4,199.16	0.00	0.00	0.00	
13,600.00	89.84	93.40	9,386.20	-919.29	4,202.25	4,298.46	0.00	0.00	0.00	
13,700.00	89.84	93.40	9,386.47	-925.21	4,302.07	4,397.77	0.00	0.00	0.00	
13,800.00	89.84	93.40	9,386.74	-931.14	4,401.90	4,497.08	0.00	0.00	0.00	
13,900.00	89.84	93.40	9,387.01	-937.06	4,501.72	4,596.38	0.00	0.00	0.00	
14,000.00	89.84	93.40	9,387.29	-942.98	4,601.54	4,695.69	0.00	0.00	0.00	
14,100.00	89.84	93.40	9,387.56	-948.91	4,701.37	4,795.00	0.00	0.00	0.00	
14,200.00	89.84	93.40	9,387.83	-954.83	4,801.19	4,894.31	0.00	0.00	0.00	
14,300.00	89.84	93.40	9,388.10	-960.75	4,901.02	4,993.61	0.00	0.00	0.00	
14,400.00	89.84	93.40	9,388.37	-966.67	5,000.84	5,092.92	0.00	0.00	0.00	
14,500.00	89.84	93.40	9,388.64	-972.60	5,100.66	5,192.23	0.00	0.00	0.00	
14,600.00	89.84	93.40	9,388.91	-978.52	5,200.49	5,291.53	0.00	0.00	0.00	
14,700.00	89.84	93.40	9,389.18	-984.44	5,300.31	5,390.84	0.00	0.00	0.00	
14,800.00	89.84	93.40	9,389.45	-990.36	5,400.14	5,490.15	0.00	0.00	0.00	
14,900.00	89.84	93.40	9,389.72	-996.29	5,499.96	5,589.45	0.00	0.00	0.00	
15,000.00	89.84	93.40	9,389.99	-1,002.21	5,599.78	5,688.76	0.00	0.00	0.00	
15,003.22	89.84	93.40	9,390.00	-1,002.40	5,603.00	5,691.96	0.00	0.00	0.00	
TD @ 15003.22' MD, 9390.00' TVD - PBHL (Dirty Dozen Federal Com 4H Plan 3)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL (Dirty Dozen Fede	0.00	0.00	9,390.00	-1,002.40	5,603.00	586,515.400	664,962.400	32.611290	-103.797611	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
8,770.00	8,767.92	-27.88	-1.31	Tie-On to Gyro Surveys - 8770.00' MD, 8767.92' TVD	
8,770.00	8,767.92	-335.90	362.52	Start Build @ 12.00°/100'	
8,901.29	8,899.16	-30.82	-3.26	Straight line Projection to KOP @ 8901.29' MD, 8899.16' TVD.	
9,648.88	9,375.38	-441.26	495.92	Landing Point - Hold @ 89.84° INC, 128.30° AZ	
9,818.88	9,375.85	-747.03	1,298.85	Start Turn @ 4.00°/100'	
10,691.49	9,378.33	-1,002.40	5,603.00	EOT - Hold @ 93.40° AZ	
15,003.22	9,390.00			TD @ 15003.22' MD, 9390.00' TVD	