

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division

Form C-101
August 1, 2011
Permit 195422

ARTESIA DISTRICT
NOV 17 2014

RECEIVED

1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
		3. API Number <i>30-015-42798</i>
4. Property Code 39962	5. Property Name BRAGG 10 FEE	6. Well No. 003H

7. Surface Location

UL - Lot O	Section 10	Township 19S	Range 26E	Lot Idn	Feet From 150	N/S Line S	Feet From 2310	E/W Line E	County EDDY
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8. Proposed Bottom Hole Location

UL - Lot B	Section 10	Township 19S	Range 26E	Lot Idn B	Feet From 330	N/S Line N	Feet From 2310	E/W Line E	County Eddy
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9. Pool Information

ATOKA;GLORIETA-YESO	3250
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary <i>[Signature]</i>	14. Lease Type Private	15. Ground Level Elevation <i>3332</i>
16. Multiple N	17. Proposed Depth 8097	18. Formation Yeso Formation	19. Contractor	20. Spud Date 1/9/2015
Depth to Ground water 110		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	11	8.625	32	1200	700	0
Prod	7.875	5.5	17	8097	800	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 11" hole to 1200' w/fresh water, run 8 5/8 36# J-55 and cement to surface. Drill a 7 7/8" hole to 2920' and kick off and drill curve 3441' TVD 3747' MD. Drill a 7 7/8" lateral to new BHL @ 3365' TVD 8097' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☐ if applicable.		OIL CONSERVATION DIVISION	
Signature: <i>[Signature]</i> Printed Name: <i>Kelly J. Holly</i> Title: <i>Permitting Tech</i> Email Address: <i>kholly@concho.com</i> Date: <i>11-13-14</i>		Approved By: <i>[Signature]</i> Title: <i>Geologist</i> Approved Date: <i>11-17-2014</i> Expiration Date: <i>11-17-2016</i>	
Phone: <i>432 685-4384</i>		Conditions of Approval Attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-42798	Pool Code 3250	Pool Name Atoka; Glorieta Yeso
Property Code 39962	Property Name BRAGG 10 FEE	Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3332'

Surface Location

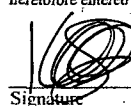
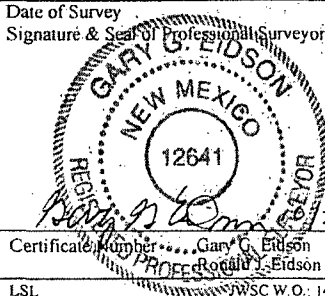
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	10	19-S	26-E		150	SOUTH	2310	EAST	EDDY

Bottom-Hole Location If Different From Surface

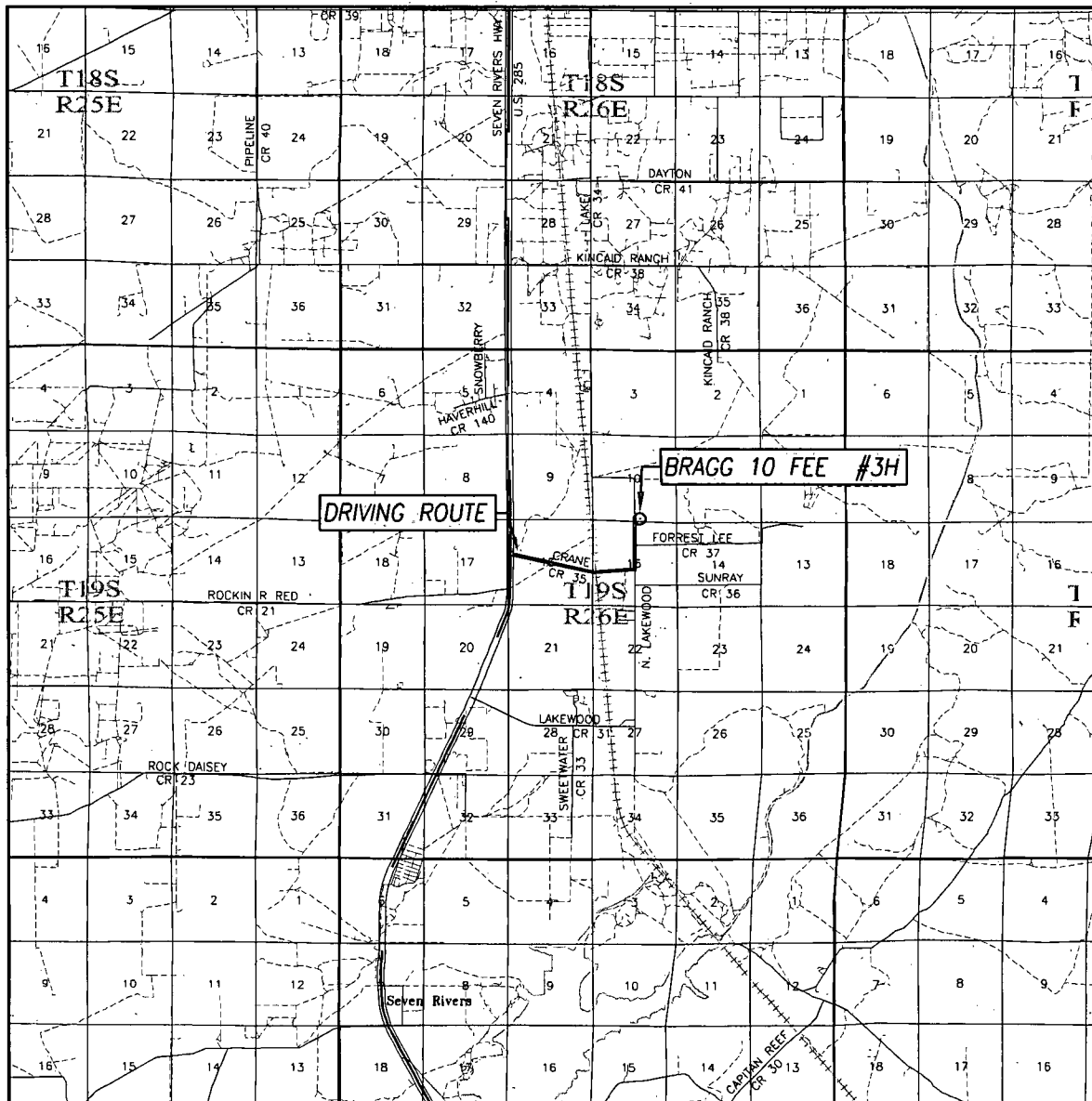
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	19-S	26-E		330	NORTH	2310	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
159.04			

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

NAD 27 NME BOTTOM HOLE LOCATION Y= 611654.2 N X= 489292.4 E LAT.=32.681532° N LONG.=104.368135° W	NAD 83 NME BOTTOM HOLE LOCATION Y= 611715.9 N X= 530471.4 E LAT.=32.681646° N LONG.=104.368651° W	330' B.H. 2310' Producing Area Project Area GRID AZ=358°59'59" HORIZ. DIST=4880.4' 330' 2310' Estimated Completed Interval: 330 FSL 2310 FEL	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.  11-12-14 Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address
CORNER COORDINATES TABLE NAD 27 NME A - Y= 611986.9 N, X= 488941.2 E B - Y= 611976.4 N, X= 490268.9 E C - Y= 606621.6 N, X= 490367.6 E D - Y= 606627.3 N, X= 489045.2 E			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. OCTOBER 20, 2014
CORNER COORDINATES TABLE NAD 83 NME A - Y= 612048.7 N, X= 530120.2 E B - Y= 612038.1 N, X= 531447.9 E C - Y= 606683.3 N, X= 531546.7 E D - Y= 606688.9 N, X= 530224.2 E			Date of Survey Signature & Seal of Professional Surveyor:  Certificate Number: Gary C. Eidson 12641 Rogelio J. Eidson 3239 WSW.O.: 14.11.0916
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 606775.9 N X= 489377.5 E LAT.=32.668123° N LONG.=104.367853° W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 606837.5 N X= 530556.5 E LAT.=32.668237° N LONG.=104.368368° W		

VICINITY MAP



SCALE: 1" = 2 MILES

DRIVING ROUTE: SEE LOCATION VERIFICATION MAP

SEC. 10 TWP. 19-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 150' FSL & 2310' FEL

ELEVATION 3332'

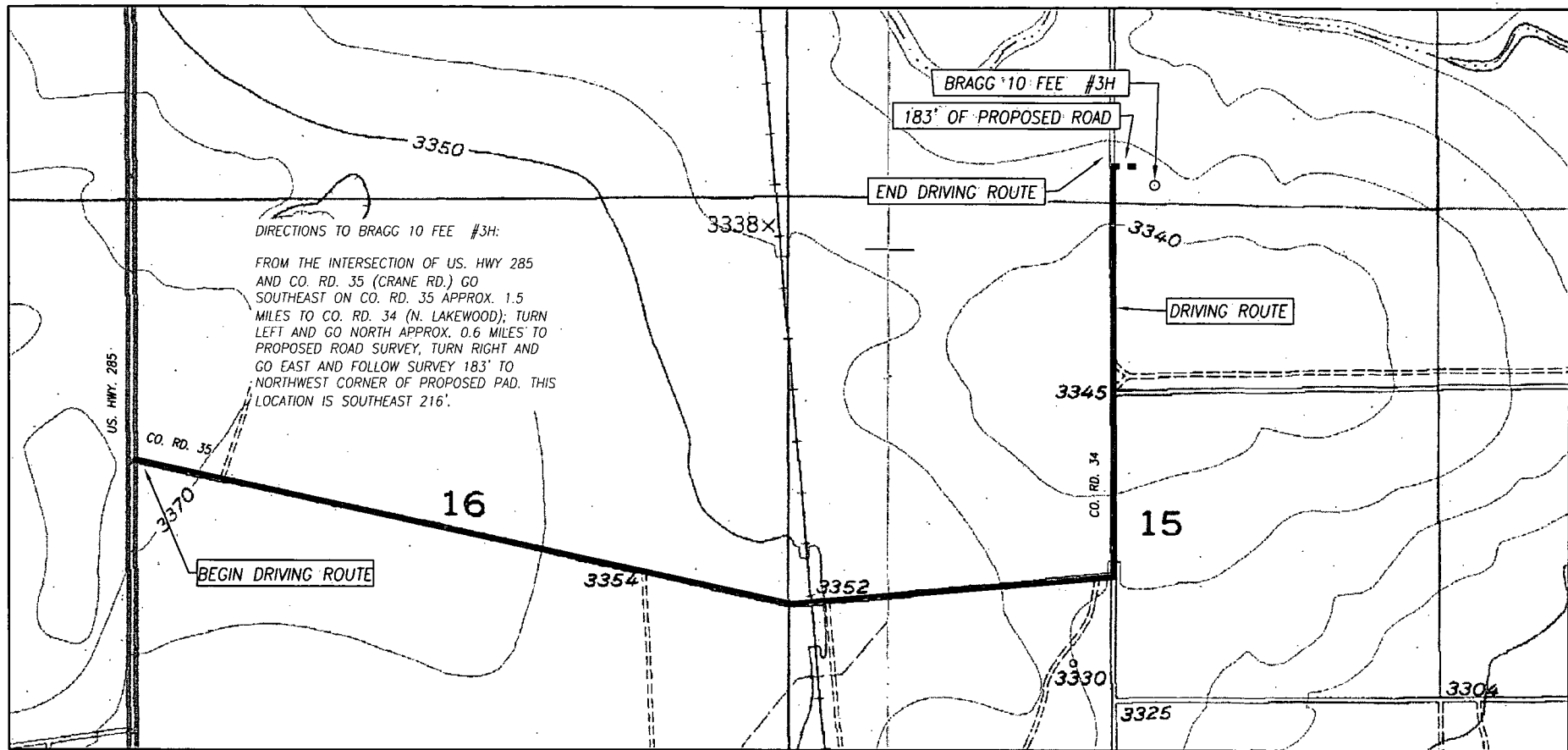
OPERATOR COG OPERATING, LLC

LEASE BRAGG 10 FEE



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

LOCATION VERIFICATION MAP



SEC. 10 TWP. 19-S RGE. 26-E
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 150' FSL & 2310' FWL
 ELEVATION 3332'
 OPERATOR COG OPERATING, LLC
 LEASE BRAGG 10 FEE
 U.S.G.S. TOPOGRAPHIC MAP
 LAKE MCMILLAN NORTH, N.M. SURVEY N.M.P.M.

SCALE: 1" = 1000'

CONTOUR INTERVAL:
 LAKE MCMILLAN NORTH, N.M. - 10'
 DAYTON, N.M. - 10'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000



COG Operating LLC

Eddy County, NM (NAD27 NME)

Bragg 10 Fee

#3H

WB1

Plan: Plan #1 11-12-14

Surface: 150' FSL, 2310' FEL, Sec 10, T19S, R26E, Unit O

PP: 330' FSL, 2310' FEL, Sec 10, T19S, R26E, Unit O

BHL: 330' FNL, 2310' FEL, Sec 10, T19S, R26E, Unit B

Standard Planning Report

12 November, 2014



PHOENIX
TECHNOLOGY SERVICES

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	KB @ 3350.00usft (Silver Oak 3)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3350.00usft (Silver Oak 3)
Site:	Bragg 10 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1:11-12-14		

Project:	Eddy County, NM (NAD27 NME)		
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:	Bragg 10 Fee		
Site Position:		Northing:	606,787.30 usft
From:	Map	Easting:	486,726.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 40' 5.34496 N
		Longitude:	104° 22' 35.28540 W
		Grid Convergence:	-0.02 °

Well:	#3H		
Well Position	+N-S	-11.40 usft	Northing: 606,775.90 usft
	+E-W	2,651.20 usft	Easting: 489,377.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 40' 5.24175 N
		Longitude:	104° 22' 4.26970 W
		Ground Level:	3,332.00 usft

Wellbore:	WB1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	11/12/2014	(°)
			7.57
			60.38
			48,456

Design:	Plan #1:11-12-14		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.00

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,920.12	0.00	0.00	2,920.12	0.00	0.00	0.00	0.00	0.00	0.00	
3,747.39	91.00	359.00	3,440.91	529.88	-9.24	11.00	11.00	0.00	359.00	
8,097.14	91.00	359.00	3,365.00	4,878.30	-85.10	0.00	0.00	0.00	0.00	PBHL-Bragg 10 Fee #

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	KB @ 3350.00usft (Silver Oak 3)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3350.00usft (Silver Oak 3)
Site:	Bragg 10 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1.11.12.14		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,920.12	0.00	0.00	2,920.12	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 11°/100' Build									
3,000.00	8.79	359.00	2,999.69	6.11	-0.11	6.11	11.00	11.00	0.00
3,100.00	19.79	359.00	3,096.45	30.75	-0.54	30.75	11.00	11.00	0.00
3,200.00	30.79	359.00	3,186.73	73.39	-1.28	73.40	11.00	11.00	0.00
3,300.00	41.79	359.00	3,267.21	132.47	-2.31	132.49	11.00	11.00	0.00
3,366.76	49.13	359.00	3,314.01	180.02	-3.14	180.04	11.00	11.00	0.00
PP-Bragg 10 Fee #3H									
3,400.00	52.79	359.00	3,334.94	205.82	-3.59	205.86	11.00	11.00	0.00
3,500.00	63.79	359.00	3,387.42	290.75	-5.07	290.79	11.00	11.00	0.00
3,600.00	74.79	359.00	3,422.74	384.13	-6.70	384.19	11.00	11.00	0.00
3,700.00	85.79	359.00	3,439.59	482.53	-8.42	482.60	11.00	11.00	0.00
3,734.32	89.56	359.00	3,440.98	516.81	-9.02	516.89	11.00	11.00	0.00
TL: 3450' TVD @ 0 VZ; 91.0° Inc									
3,747.39	91.00	359.00	3,440.91	529.88	-9.24	529.96	11.00	11.00	0.00
LP: Hold 91° Inc; 359 Azm									
3,800.00	91.00	359.00	3,440.00	582.47	-10.16	582.56	0.00	0.00	0.00
3,900.00	91.00	359.00	3,438.25	682.44	-11.90	682.54	0.00	0.00	0.00
4,000.00	91.00	359.00	3,436.51	782.41	-13.65	782.53	0.00	0.00	0.00
4,100.00	91.00	359.00	3,434.76	882.38	-15.39	882.51	0.00	0.00	0.00
4,200.00	91.00	359.00	3,433.01	982.35	-17.14	982.50	0.00	0.00	0.00
4,300.00	91.00	359.00	3,431.27	1,082.32	-18.88	1,082.48	0.00	0.00	0.00
4,400.00	91.00	359.00	3,429.52	1,182.29	-20.62	1,182.47	0.00	0.00	0.00
4,500.00	91.00	359.00	3,427.78	1,282.26	-22.37	1,282.45	0.00	0.00	0.00
4,600.00	91.00	359.00	3,426.03	1,382.23	-24.11	1,382.44	0.00	0.00	0.00
4,700.00	91.00	359.00	3,424.29	1,482.20	-25.86	1,482.42	0.00	0.00	0.00
4,800.00	91.00	359.00	3,422.54	1,582.17	-27.60	1,582.41	0.00	0.00	0.00
4,900.00	91.00	359.00	3,420.80	1,682.13	-29.34	1,682.39	0.00	0.00	0.00
5,000.00	91.00	359.00	3,419.05	1,782.10	-31.09	1,782.38	0.00	0.00	0.00
5,100.00	91.00	359.00	3,417.31	1,882.07	-32.83	1,882.36	0.00	0.00	0.00
5,200.00	91.00	359.00	3,415.56	1,982.04	-34.58	1,982.35	0.00	0.00	0.00
5,300.00	91.00	359.00	3,413.82	2,082.01	-36.32	2,082.33	0.00	0.00	0.00
5,400.00	91.00	359.00	3,412.07	2,181.98	-38.06	2,182.31	0.00	0.00	0.00
5,500.00	91.00	359.00	3,410.33	2,281.95	-39.81	2,282.30	0.00	0.00	0.00
5,600.00	91.00	359.00	3,408.58	2,381.92	-41.55	2,382.28	0.00	0.00	0.00
5,700.00	91.00	359.00	3,406.84	2,481.89	-43.30	2,482.27	0.00	0.00	0.00
5,800.00	91.00	359.00	3,405.09	2,581.86	-45.04	2,582.25	0.00	0.00	0.00
5,900.00	91.00	359.00	3,403.35	2,681.83	-46.78	2,682.24	0.00	0.00	0.00
6,000.00	91.00	359.00	3,401.60	2,781.80	-48.53	2,782.22	0.00	0.00	0.00
6,100.00	91.00	359.00	3,399.85	2,881.77	-50.27	2,882.21	0.00	0.00	0.00
6,200.00	91.00	359.00	3,398.11	2,981.74	-52.02	2,982.19	0.00	0.00	0.00
6,300.00	91.00	359.00	3,396.36	3,081.71	-53.76	3,082.18	0.00	0.00	0.00
6,400.00	91.00	359.00	3,394.62	3,181.68	-55.50	3,182.16	0.00	0.00	0.00
6,500.00	91.00	359.00	3,392.87	3,281.65	-57.25	3,282.15	0.00	0.00	0.00
6,600.00	91.00	359.00	3,391.13	3,381.62	-58.99	3,382.13	0.00	0.00	0.00
6,700.00	91.00	359.00	3,389.38	3,481.59	-60.73	3,482.12	0.00	0.00	0.00
6,800.00	91.00	359.00	3,387.64	3,581.56	-62.48	3,582.10	0.00	0.00	0.00
6,900.00	91.00	359.00	3,385.89	3,681.53	-64.22	3,682.09	0.00	0.00	0.00
7,000.00	91.00	359.00	3,384.15	3,781.50	-65.97	3,782.07	0.00	0.00	0.00
7,100.00	91.00	359.00	3,382.40	3,881.47	-67.71	3,882.06	0.00	0.00	0.00
7,200.00	91.00	359.00	3,380.66	3,981.43	-69.45	3,982.04	0.00	0.00	0.00
7,300.00	91.00	359.00	3,378.91	4,081.40	-71.20	4,082.03	0.00	0.00	0.00
7,400.00	91.00	359.00	3,377.17	4,181.37	-72.94	4,182.01	0.00	0.00	0.00

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	KB @ 3350.00usft (Silver Oak 3)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3350.00usft (Silver Oak 3)
Site:	Bragg 10 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1-11-12-14		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.00	91.00	359.00	3,375.42	4,281.34	-74.69	4,281.99	0.00	0.00	0.00
7,600.00	91.00	359.00	3,373.68	4,381.31	-76.43	4,381.98	0.00	0.00	0.00
7,700.00	91.00	359.00	3,371.93	4,481.28	-78.17	4,481.96	0.00	0.00	0.00
7,800.00	91.00	359.00	3,370.19	4,581.25	-79.92	4,581.95	0.00	0.00	0.00
7,900.00	91.00	359.00	3,368.44	4,681.22	-81.66	4,681.93	0.00	0.00	0.00
8,000.00	91.00	359.00	3,366.70	4,781.19	-83.41	4,781.92	0.00	0.00	0.00
8,097.14	91.00	359.00	3,365.00	4,878.30	-85.10	4,879.04	0.00	0.00	0.00
TD at 8097.14' MD - PBHL-Bragg 10 Fee #3H									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	
Shape									Latitude Longitude
PP-Bragg 10 Fee #3H	- plan hits target center - Point	0.00	360.00	3,313.99	180.00	-3.14	606,955.90	489,374.36	32° 40' 7.02296 N 104° 22' 4.30712 W
PBHL-Bragg 10 Fee #3H	- plan hits target center - Point	0.00	360.00	3,365.00	4,878.30	-85.10	611,654.20	489,292.40	32° 40' 53.51549 N 104° 22' 5.28397 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,734.32	3,440.98	TL, 3450' TVD @ 0 VZ, 91.0° Inc		-1.00	359.00	

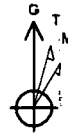
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
2,920.12	2,920.12	0.00	0.00	KOP, Begin 11°/100' Build
3,747.39	3,440.91	529.88	-9.24	LP, Hold 91° Inc, 359 Azm
8,097.14	3,365.00	4,878.30	-85.10	TD at 8097.14' MD



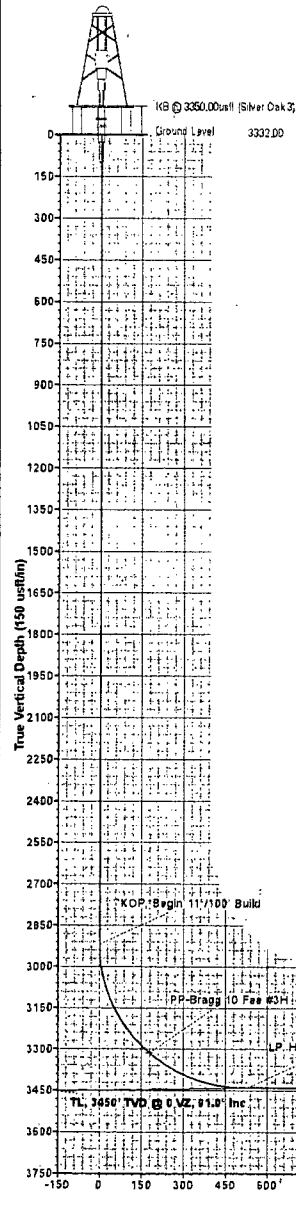
Project: Eddy County, NM (NAD27 NME)
Site: Bragg 10 Fee
Well: #3H
Wellbore: WB1
Design: Plan #1 11-12-14
Rig: Silver Oak 3



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.02°
Magnetic North: 7.59°
Magnetic Field
Strength: 48455.5 nT
Dip Angle: 60.38°
Date: 11/12/2014
Model: IGRF2010_14

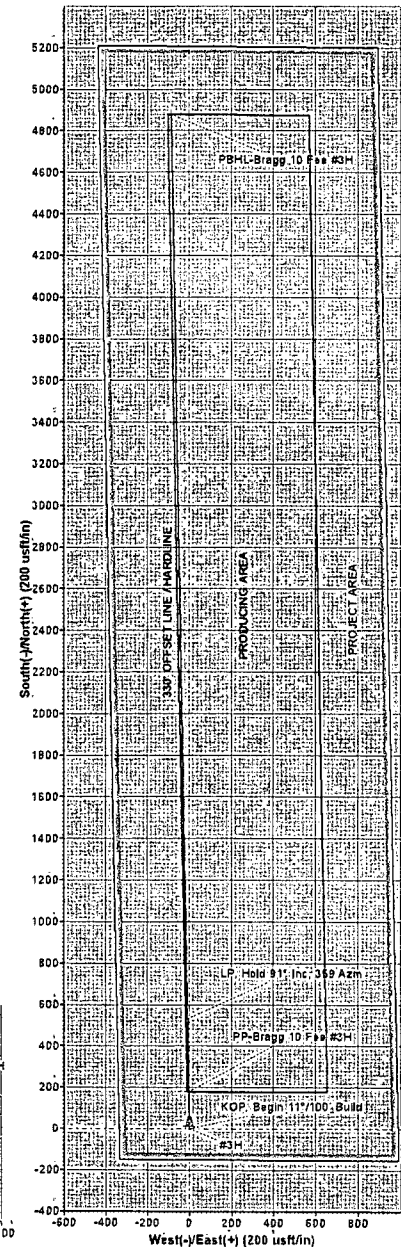
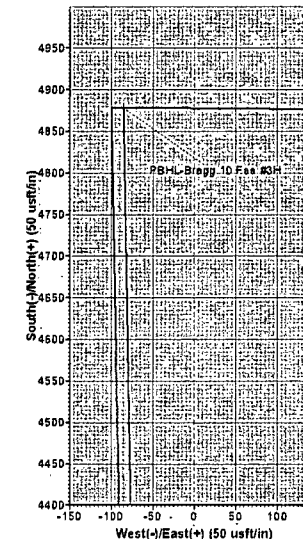
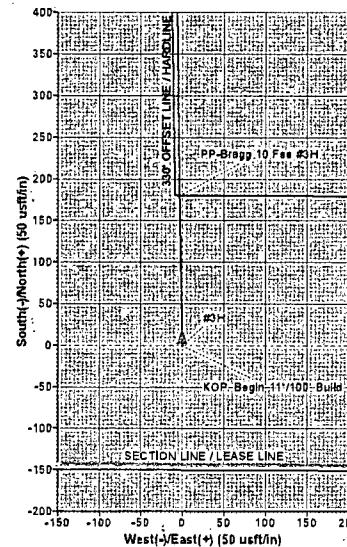


WELL DETAILS									
	-NUS	-EAW	Northing	Ground Level	3332.00				
	0.00	0.00	606775.90	Easting	488377.50	Latitude	32° 40' 5.24175 N	Longitude	104° 22' 4.26970 W

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	-NUS	-EAW	Drag	T-Base	V-Base
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2920.12	0.00	0.00	2920.12	0.00	0.00	0.00	0.00	0.00
3	3747.39	91.00	359.00	3440.91	529.89	-9.24	11.00	359.00	529.96
4	8097.14	91.00	359.00	3365.00	4878.30	-85.10	0.00	0.00	4879.04

DESIGN TARGET DETAILS									
Name	TVD	-NUS	-EAW	Northing	Easting	Latitude	Longitude	Shape	
PP-Bragg 10 Fee #3H	3313.99	180.00	-3.14	606955.90	499374.36	32° 40' 7.02296 N	104° 22' 4.30712 W	Point	
PP-Bragg 10 Fee #3H									

LEGEND									
Plan #1 11-12-14									



Permit Conditions of Approval

API: 30-015-42798

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string