

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015- 93033	2 Pool Code 96610	3 Pool Name Empire; Glorieta Yeso East
4 Property Code 313320	5 Property Name BOSE IKARD 4 STATE COM	6 Well Number 15H
7 GRID NO. 229137	8 Operator Name COG OPERATING, LLC	9 Elevation 3598'

10 Surface Location

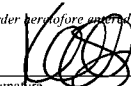
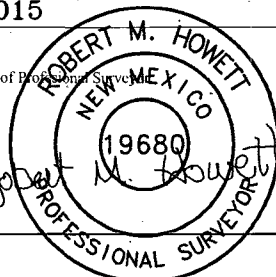
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
L	4	17S	29E		2140	SOUTH	150	WEST	EDDY

11 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	4	17S	29E		2309	SOUTH	330	EAST	EDDY

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.
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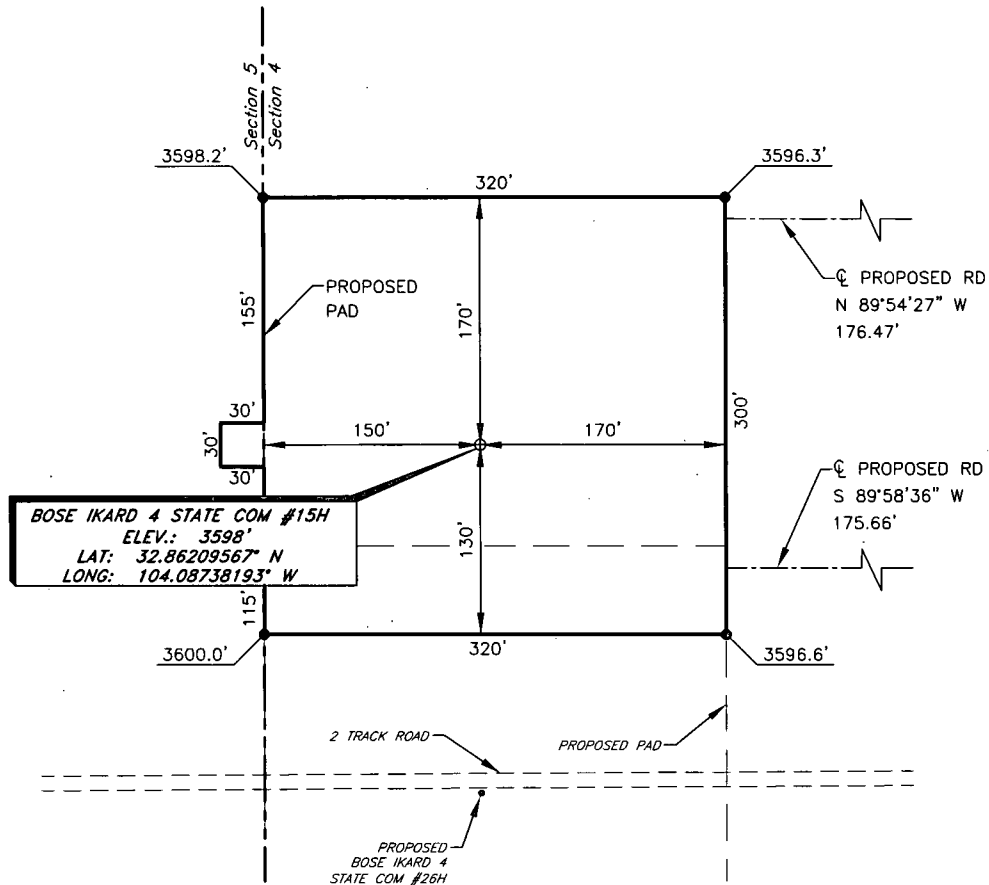
No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 LOT 4 40.00 Ac. (MSP 40.05 Ac.) GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 677429.7 - E 575521.8 LAT: 32.86209567° N LONG: 104.08738193° W BOTTOM HOLE N 677628.1 - E 580297.1 Estimated Completed Interval: 2146 FSL 330 FSL	LOT 3 39.91 Ac. (MSP 40.00 Ac.) CORNER DATA NAD 27 GRID - NM EAST A: FOUND RED CAP "HOWETT PLS19680" N 675289.3 - E 575371.1 B: FOUND BRASS CAP "1914" N 677928.7 - E 575371.9 C: FOUND BRASS CAP "1914" N 680580.6 - E 575358.9 D: FOUND BRASS CAP "1914" N 680585.3 - E 577994.0	LOT 2 39.80 Ac. (MSP 39.93 Ac.) E: FOUND BRASS CAP "1914" N 680598.6 - E 580627.0 F: FOUND BRASS CAP "1914" N 677960.0 - E 580626.8 G: FOUND BRASS CAP "1914" N 675321.9 - E 580628.5 H: FOUND BRASS CAP "1914" N 675304.8 - E 577999.2 1: CALCULATED CORNER N 676609.0 - E 575371.5 2: CALCULATED CORNER N 676641.0 - E 580627.6	LOT 1 39.78 Ac. (MSP 39.88 Ac.)	17 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 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature:  Date: 4-8-15 Printed Name: Kelly J. Holly E-mail Address: kholly@concho.com
18 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. Date of Survey: 3-12-2015 Signature and Seal of Professional Surveyor:  Certificate Number: 19680				

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1503083

4/27/15

COG OPERATING, LLC
BOSE IKARD 4 STATE COM #15H
(2140' FSL & 150' FWL)
SECTION 4, T17S, R29E
N. M. P. M., EDDY CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-214 (Barnaval Draw) and CR-211 (Old Loco)
Go West on CR-211 approx. 0.6 miles;
Turn Right on lease rd. and go South approx. 0.2 miles;
Location is approx. 346 feet to the West of lease road.

SCALE: 1" = 100'
0 50 100

BEARINGS ARE
NAD 27 GRID - NM EAST
DISTANCES ARE
GROUND.

Firm No.: TX 10193838 NM 4655451

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NO.	REVISION	DATE
JOB NO.:	LS1503083	
DWG. NO.:	1503083PAD	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'

DATE: 3-12-2015

SURVEYED BY: GB

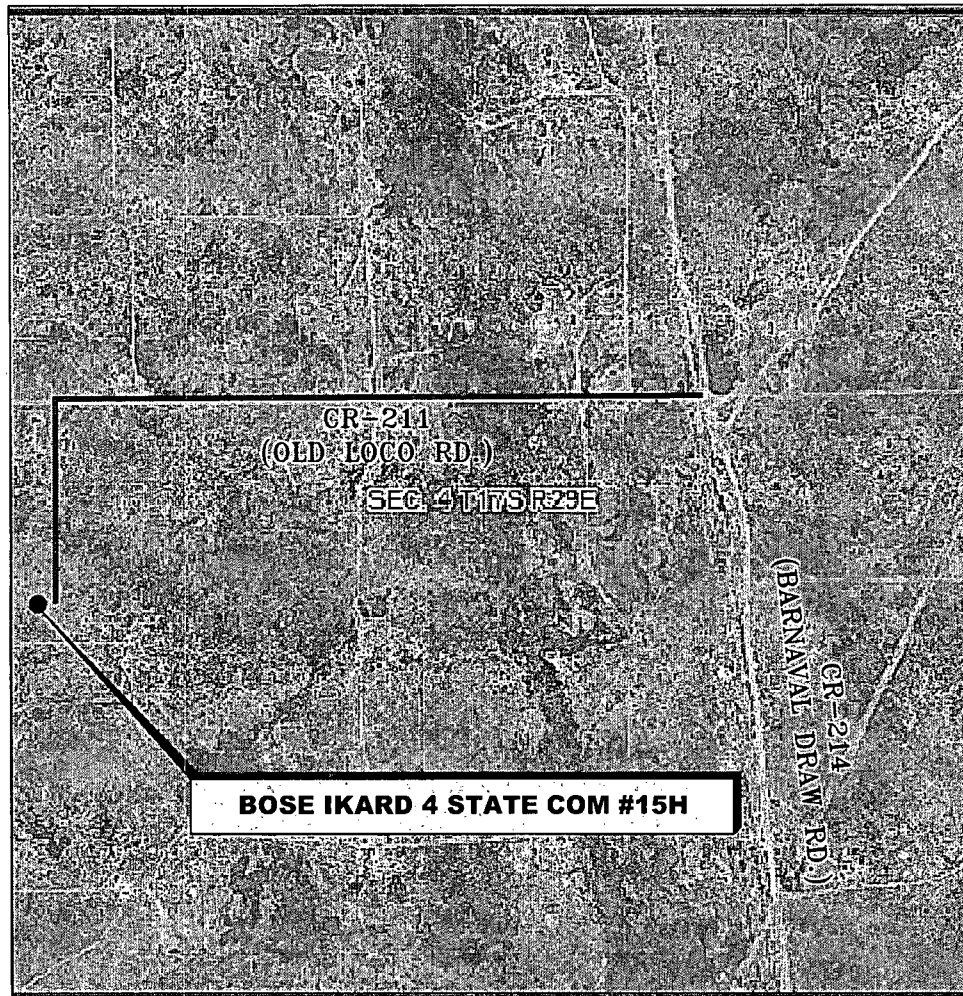
DRAWN BY: CMJ

APPROVED BY: RMH

SHEET : 1 OF 1

VICINITY MAP

NOT TO SCALE



*SECTION 4, TWP. 17 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO*

OPERATOR: COG Operating, LLC
LEASE: Bose Ikard 4 State Com
WELL NO.: 15H

LOCATION: 2140' FSL & 150' FWL
ELEVATION: 3598'

Firm No.: TX 10193838 NM 4655451

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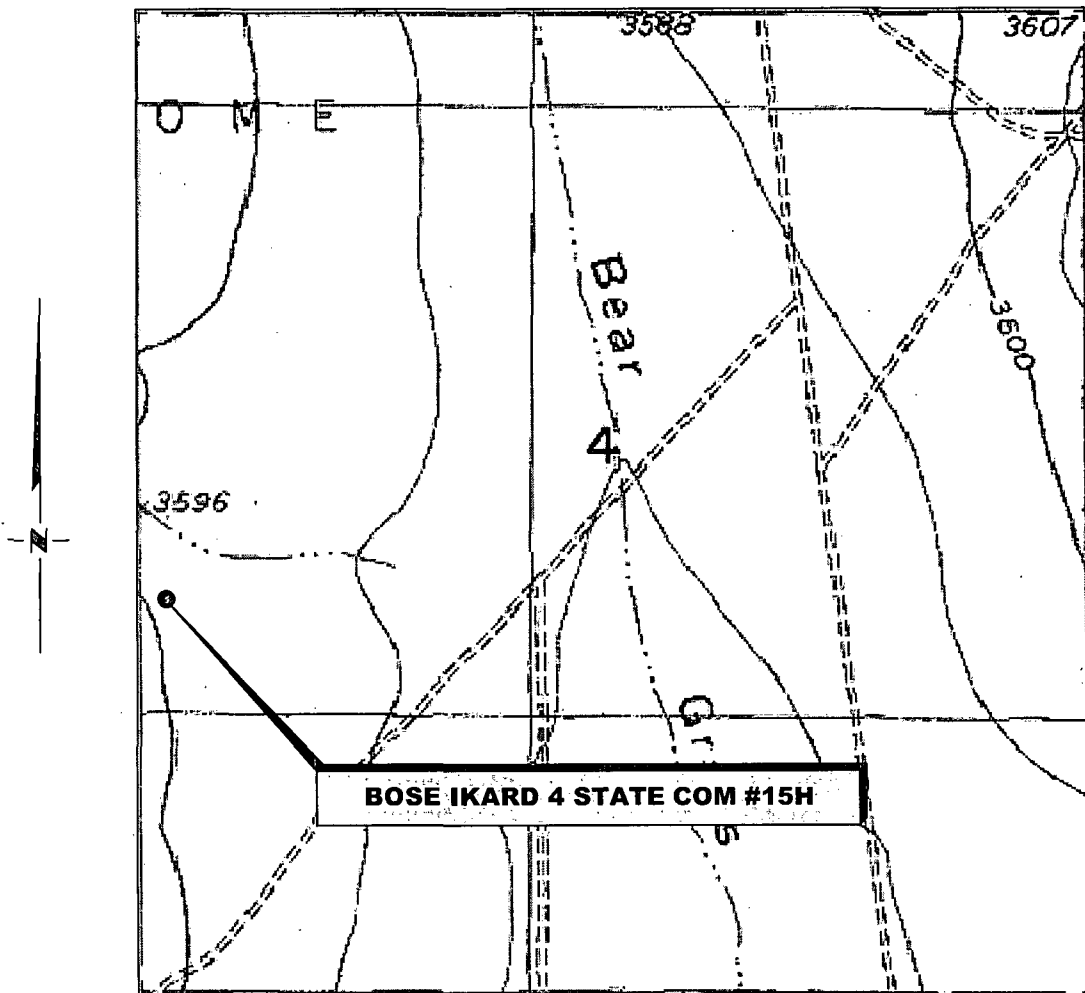
NO.	REVISION	DATE
JOB NO.: LS1503083		
DWG. NO.: 1503083VM		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: NTS
DATE: 3-12-2015
SURVEYED BY: GB
DRAWN BY: CMJ
APPROVED BY: RMH
SHEET : 1 OF 1

LOCATION VERIFICATION MAP



SECTION 4, TWP. 17 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Bose Ikard 4 State Com
WELL NO.: 15H
ELEVATION: 3598'

LOCATION: 2140' FSL & 150' FWL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Red Lake SE, NM (1955)

Firm No.: TX 10193838 NM 4655451

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NO.	REVISION	DATE
JOB NO.: LS1503083		
DWG. NO.: 1503083LVM		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 3-12-2015
SURVEYED BY: GB
DRAWN BY: CMJ
APPROVED BY: RMH
SHEET : 1 OF 1



NM OIL CONSERVATION

ARTESIA DISTRICT

APR 13 2015

RECEIVED

**COG Operating LLC
NEW MEXICO SHELF**

EDDY COUNTY, NM

EMPIRE

BOSE IKARD 4 STATE COM #15H

OWB

Plan: PWP0

SHL: 2140' FSL, 150' FWL, SEC. 4, T17S, R29E, UNIT L

PP: 2146' FSL, 330' FWL, SEC. 4, T17S, R29E, UNIT L

BHL: 2309' FSL, 330' FEL, SEC. 4, T17S, R29E, UNIT I

Standard Planning Report

26 March, 2015



COG Operating LLC Planning Report

Database:	EDM Users	Local Co-ordinate Reference:	Well: BOSE IKARD 4 STATE COM #15H
Company:	NEW MEXICO SHELF	TVD Reference:	RKB=3598+12 @ 3610.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	RKB=3598+12 @ 3610.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	BOSE IKARD 4 STATE COM #15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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						EMPIRE					
Site Position:		Northing:		667,066.90 usft		Latitude:		32° 50' 0.822 N			
From:		Map		Easting:		582,960.90 usft		Longitude:		104° 3' 47.669 W	
Position Uncertainty:		0.0 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.15	

Well	BOSE IKARD 4 STATE COM #15H					
Well Position	+N/-S	10,362.8 usft	Northing:	677,429.70 usft	Latitude:	32° 51' 43.545 N
	+E/-W	-7,439.1 usft	Easting:	575,521.80 usft	Longitude:	104° 5' 14.574 W
Position Uncertainty	3.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,598.0 usft	

Wellbore		OWB			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	WMM_2005	12/31/2009	8.04	60.73	49,113

Design:	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	4,025.7	0.0	0.0	87.62

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,579.1	0.00	0.00	3,579.1	0.0	0.0	0.00	0.00	0.00	0.00	
4,406.6	91.00	87.62	4,100.0	22.0	529.6	11.00	11.00	0.00	87.62	
8,656.5	91.00	87.62	4,025.7	198.4	4,775.3	0.00	0.00	0.00	0.00	PBHL-Bose Ikard 4 S



COG Operating LLC

Planning Report

Database:	EDM Users	Local Co-ordinate Reference:	Well BOSE IKARD 4 STATE COM #15H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3598+12 @ 3610.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	*RKB=3598+12 @ 3610.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	BOSE IKARD 4 STATE COM #15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWR0		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,579.1	0.00	0.00	3,579.1	0.0	0.0	0.0	0.00	0.00	0.00
EST KOP: 3579.1 MD: 11°/100'									
3,600.0	2.30	87.62	3,600.0	0.0	0.4	0.4	11.00	11.00	0.00
3,700.0	13.30	87.62	3,698.9	0.6	14.0	14.0	11.00	11.00	0.00
3,800.0	24.29	87.62	3,793.4	1.9	46.1	46.1	11.00	11.00	0.00
3,900.0	35.29	87.62	3,880.1	4.0	95.7	95.7	11.00	11.00	0.00
4,000.0	46.29	87.62	3,955.7	6.7	160.8	161.0	11.00	11.00	0.00
4,025.8	49.13	87.62	3,973.0	7.5	179.9	180.1	11.00	11.00	0.00
PP: 4025.8 MD									
4,100.0	57.29	87.62	4,017.4	9.9	239.2	239.4	11.00	11.00	0.00
4,200.0	68.29	87.62	4,063.1	13.6	327.9	328.2	11.00	11.00	0.00
4,300.0	79.28	87.62	4,091.0	17.6	423.7	424.1	11.00	11.00	0.00
4,400.0	90.28	87.62	4,100.1	21.7	523.1	523.5	11.00	11.00	0.00
4,406.6	91.00	87.62	4,100.0	22.0	529.7	530.1	10.92	10.92	0.00
EOC: 4406.6 MD: 4100 TVD: 91° INC: 87.62° AZI:									
4,500.0	91.00	87.62	4,098.4	25.9	623.0	623.5	0.00	0.00	0.00
4,600.0	91.00	87.62	4,096.6	30.0	722.9	723.5	0.00	0.00	0.00



COG Operating LLC Planning Report

Database:	EDM-Users	Local Co-ordinate Reference:	Well: BOSE IKARD 4 STATE COM #15H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3598+12 @ 3610'0usft (TBD)
Project:	EDDY COUNTY NM	MD Reference:	*RKB=3598+12 @ 3610'0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	BOSE IKARD 4 STATE COM #15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
4,700.0	91.00	87.62	4,094.9	34.2	822.8	823.5	0.00	0.00	0.00
4,800.0	91.00	87.62	4,093.1	38.3	922.7	923.5	0.00	0.00	0.00
4,900.0	91.00	87.62	4,091.4	42.5	1,022.6	1,023.5	0.00	0.00	0.00
5,000.0	91.00	87.62	4,089.6	46.6	1,122.5	1,123.4	0.00	0.00	0.00
5,100.0	91.00	87.62	4,087.9	50.8	1,222.4	1,223.4	0.00	0.00	0.00
5,200.0	91.00	87.62	4,086.1	54.9	1,322.3	1,323.4	0.00	0.00	0.00
5,300.0	91.00	87.62	4,084.4	59.1	1,422.2	1,423.4	0.00	0.00	0.00
5,400.0	91.00	87.62	4,082.6	63.2	1,522.1	1,523.4	0.00	0.00	0.00
5,500.0	91.00	87.62	4,080.9	67.4	1,622.0	1,623.4	0.00	0.00	0.00
5,600.0	91.00	87.62	4,079.1	71.5	1,721.9	1,723.3	0.00	0.00	0.00
5,700.0	91.00	87.62	4,077.4	75.7	1,821.8	1,823.3	0.00	0.00	0.00
5,800.0	91.00	87.62	4,075.6	79.8	1,921.7	1,923.3	0.00	0.00	0.00
5,900.0	91.00	87.62	4,073.9	84.0	2,021.6	2,023.3	0.00	0.00	0.00
6,000.0	91.00	87.62	4,072.1	88.1	2,121.5	2,123.3	0.00	0.00	0.00
6,100.0	91.00	87.62	4,070.4	92.3	2,221.4	2,223.3	0.00	0.00	0.00
6,200.0	91.00	87.62	4,068.6	96.4	2,321.3	2,323.3	0.00	0.00	0.00
6,300.0	91.00	87.62	4,066.9	100.6	2,421.2	2,423.2	0.00	0.00	0.00
6,400.0	91.00	87.62	4,065.1	104.7	2,521.0	2,523.2	0.00	0.00	0.00
6,500.0	91.00	87.62	4,063.4	108.9	2,620.9	2,623.2	0.00	0.00	0.00
6,600.0	91.00	87.62	4,061.7	113.0	2,720.8	2,723.2	0.00	0.00	0.00
6,700.0	91.00	87.62	4,059.9	117.2	2,820.7	2,823.2	0.00	0.00	0.00
6,800.0	91.00	87.62	4,058.2	121.3	2,920.6	2,923.2	0.00	0.00	0.00
6,900.0	91.00	87.62	4,056.4	125.5	3,020.5	3,023.1	0.00	0.00	0.00
7,000.0	91.00	87.62	4,054.7	129.6	3,120.4	3,123.1	0.00	0.00	0.00
7,100.0	91.00	87.62	4,052.9	133.8	3,220.3	3,223.1	0.00	0.00	0.00
7,200.0	91.00	87.62	4,051.2	137.9	3,320.2	3,323.1	0.00	0.00	0.00
7,300.0	91.00	87.62	4,049.4	142.1	3,420.1	3,423.1	0.00	0.00	0.00
7,400.0	91.00	87.62	4,047.7	146.2	3,520.0	3,523.1	0.00	0.00	0.00
7,500.0	91.00	87.62	4,045.9	150.4	3,619.9	3,623.1	0.00	0.00	0.00
7,600.0	91.00	87.62	4,044.2	154.5	3,719.8	3,723.0	0.00	0.00	0.00
7,700.0	91.00	87.62	4,042.4	158.7	3,819.7	3,823.0	0.00	0.00	0.00
7,800.0	91.00	87.62	4,040.7	162.8	3,919.6	3,923.0	0.00	0.00	0.00
7,900.0	91.00	87.62	4,038.9	167.0	4,019.5	4,023.0	0.00	0.00	0.00
8,000.0	91.00	87.62	4,037.2	171.2	4,119.4	4,123.0	0.00	0.00	0.00
8,100.0	91.00	87.62	4,035.4	175.3	4,219.3	4,223.0	0.00	0.00	0.00
8,200.0	91.00	87.62	4,033.7	179.5	4,319.2	4,322.9	0.00	0.00	0.00
8,300.0	91.00	87.62	4,031.9	183.6	4,419.1	4,422.9	0.00	0.00	0.00
8,400.0	91.00	87.62	4,030.2	187.8	4,519.0	4,522.9	0.00	0.00	0.00
8,500.0	91.00	87.62	4,028.4	191.9	4,618.9	4,622.9	0.00	0.00	0.00
8,600.0	91.00	87.62	4,026.7	196.1	4,718.8	4,722.9	0.00	0.00	0.00
8,656.5	91.00	87.62	4,025.7	198.4	4,775.3	4,779.4	0.00	0.00	0.00
PBHL 8656.5 MD 4025.7 TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-Bose Ikard 4 Stat	0.00	0.00	4,025.7	198.4	4,775.3	677,628.10	580,297.10	32° 51' 45.394 N	104° 4' 18.583 W
- plan hits target center									
- Point									



COG Operating LLC
Planning Report

Database:	EDM Users	Local Co-ordinate Reference:	Well: BOSE IKARD 4 STATE COM #15H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3598+12 @ 3610.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	*RKB=3598+12 @ 3610.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	BOSE IKARD 4 STATE COM #15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWR0		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,579.1	3,579.1	0.0	0.0	EST KOP, 3579.1' MD, 11°/100'
4,025.8	3,973.0	7.5	179.9	PP, 4025.8' MD
4,406.6	4,100.0	22.0	529.7	EOC, 4406.6' MD, 4100' TVD, 91° INC, 87.62° AZI
8,656.5	4,025.7	198.4	4,775.3	PBHL, 8656.5' MD, 4025.7' TVD



Project: EDDY COUNTY, NM
 Site: EMPIRE
 Well: BOSE IKARD 4 STATE COM #15H
 Wellbore: OWB
 Design: PWP0

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BOSE IKARD 4 STATE COM #15H, Grid North
 Vertical (TVD) Reference: *RKB=3598+12 @ 3610.0usft (TBD)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: *RKB=3598+12 @ 3610.0usft (TBD)
 Calculation Method: Minimum Curvature

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	
2	3579.1	0.00	0.00	3579.1	0.0	0.0	0.00	0.00	0.0	0.0	EST KOP, 3579.1' MD, 11°/100'
3	4406.6	91.00	87.62	4100.0	22.0	529.6	11.00	87.62	530.1		EOC, 4406.6' MD, 4100' TVD, 91° INC, 87.62° AZI
4	8656.5	91.00	87.62	4025.7	198.4	4775.3	0.00	0.00	4779.4		PBHL-Bose Ikard 4 State Com #15H PBHL, 8656.5' MD, 4025.7' TVD

