

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 (505) 748-1293 Fax (505) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6176 Fax (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87502
Phone (505) 476-3460 Fax (505) 476-3462

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

JAN 08 2016
Revised August 1, 2011
Submit one copy to appropriate
District Office

RECEIVED ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41100	² Pool Code 96718	³ Pool Name Loco Hills; Glorieta Yeso
⁴ Property Code 39626	⁵ Property Name TWELVE PACK FEDERAL COM	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	
		⁶ Well Number 22H
		⁹ Elevation 3691'

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
1	1	17-S	29-E		850	NORTH	130	EAST	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
1	6	17-S	30-E		973	NORTH	330	EAST	EDDY

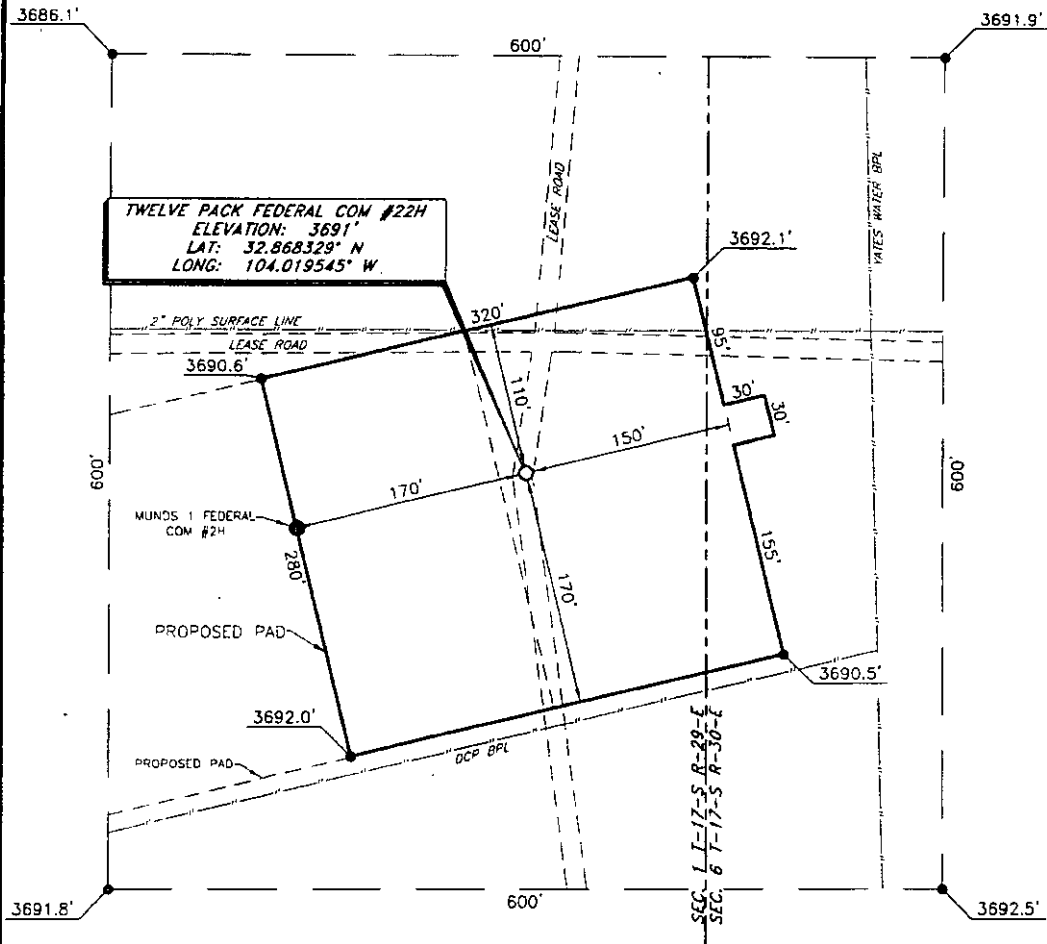
¹² Dedicated Acres 155.95	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

LOT 1 40.02 AC. (WSP 40.02 AC.) LOT 2 40.02 AC. (WSP 40.02 AC.) LOT 3 40.04 AC. (WSP 40.11 AC.) LOT 4 40.01 AC. (WSP 40.07 AC.) LOT 5 37.09 AC. (WSP 37.08 AC.) LOT 6 37.21 AC. (WSP 37.17 AC.) LOT 7 37.35 AC. (WSP 37.31 AC.) Project Area Estimated completed interval: 861 FNL 330 FWL DETAIL "A" SEC. 6 T-17-S R-29-E	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: 2-16-15 Printed Name: Kelly J. Holly E-mail Address: kholly@concho.com
CORNER DATA NAD 27 GRID - NM EAST A: FND USGLO BC 1914 N 675322.5 - E 591200.4 B: FND USGLO BC 1914 N 677961.6 - E 591198.9 C: FND USGLO BC 1916 N 580599.9 - E 591196.5 D: FND USGLO BC 1914 N 680602.4 - E 593835.9 E: FND USGLO BC 1914 N 680602.3 - E 596475.6 F: FND BRASS CAP 1916 N 680609.7 - E 599011.1 G: FND BRASS CAP 1916 N 680616.9 - E 601550.7 H: FND GLO BC N 675356.3 - E 601669.2 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 679752.6 E 596345.1 LAT. 32.868329° N LONG. 104.019545° W BOTTOM LOCATION N 679643.0 E 601324.2 CORNER DATA NAD 27 GRID - NM EAST I: FND GLO BC N 675340.1 - E 599029.3 J: FND USGLO BC 1914 N 675324.2 - E 596474.5 K: FND USGLO BC 1914 N 675326.5 - E 593844.9 L: FND USGLO BC 1914 N 677961.9 - E 596474.4	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: 4/6/13 Signature and Seal of Professional Surveyor: 19680 Certificate Number REVISED: 2/4/15

COG OPERATING, LLC

Twelve Pack Federal Com #22H
(850' FNL & 130' FEL)
Section 1, T-17-S, R-29-E,
N. M. P. M., Eddy Co., New Mexico



DIRECTIONS TO LOCATION

From the intersection of CR-215 (Kewanee) and CR-257 (Mallett).

Go East on CR-257 approx. 1.0 mile.

Turn right on lease road and go South approx. 0.3 mile to this location

In center of an existing lease road.

SCALE: 1" = 100'

BEARINGS ARE
MAD 27 - NM EAST
DISTANCES ARE
GROUND.

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2	WELL NAME	1/4/15
1	WELL NAME	5/15/13
NO.	REVISION	DATE
JOB NO.:	LS130109	
DWG. NO.:	130109PAD	

PROSPERITY CONSULTANTS, LLC



2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 100'

DATE: 4/6/13

SURVEYED BY: GB

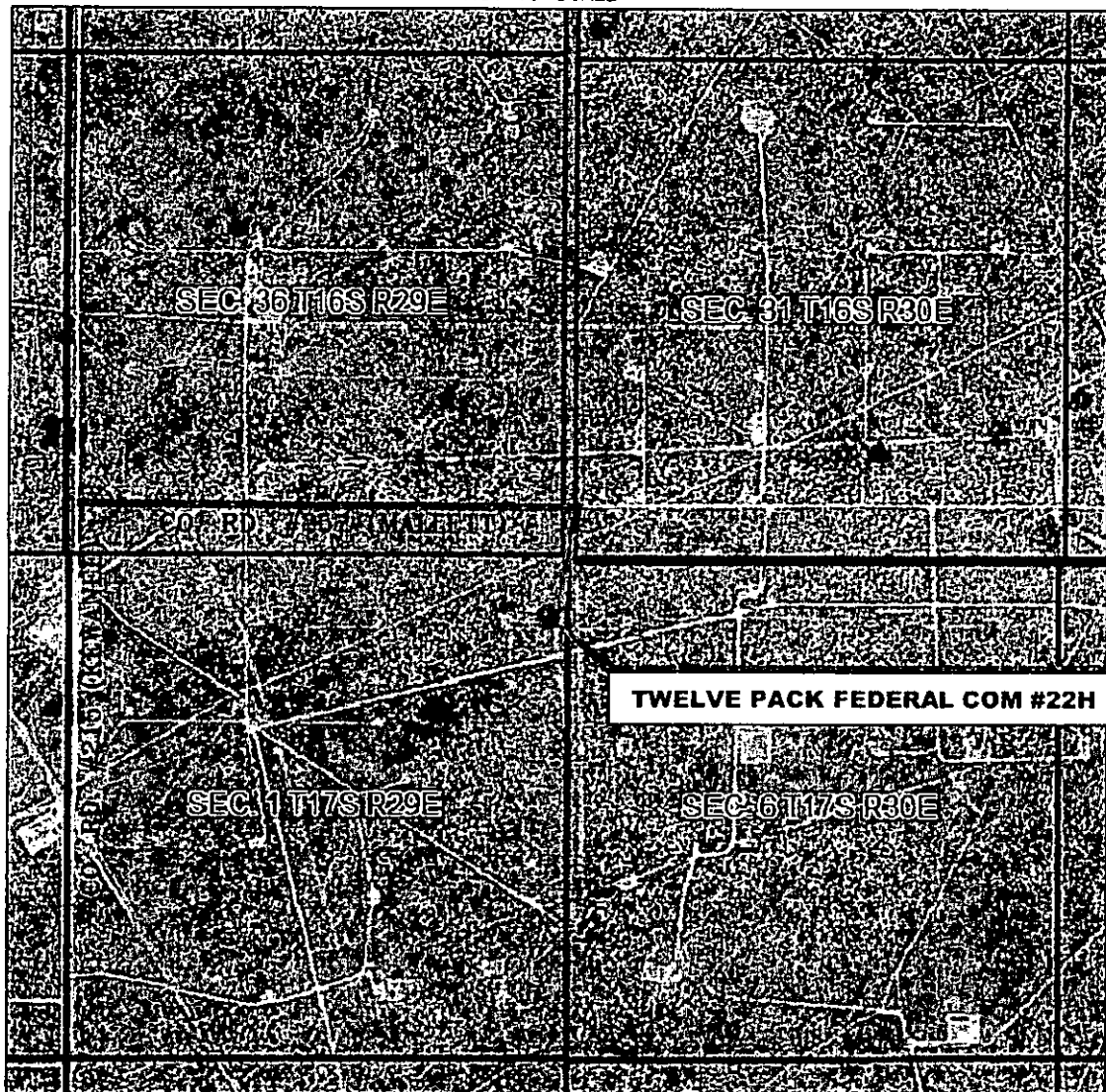
DRAWN BY: AF

APPROVED BY: LWB

SHEET : 1 OF 1

VICINITY MAP

NOT TO SCALE



SECTION 1, TWP. 17 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Twelve Pack Federal Com
WELL NO.: 22H

LOCATION: 850' FNL & 130' FEL
ELEVATION: 3691'

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2	WELL NAME	2/4/15
1	WELL NAME	5/15/13
NO.	REVISION	DATE
JOB NO.: LS130109		
DWG. NO.: 130109VM		

PROSPERITY CONSULTANTS, LLC

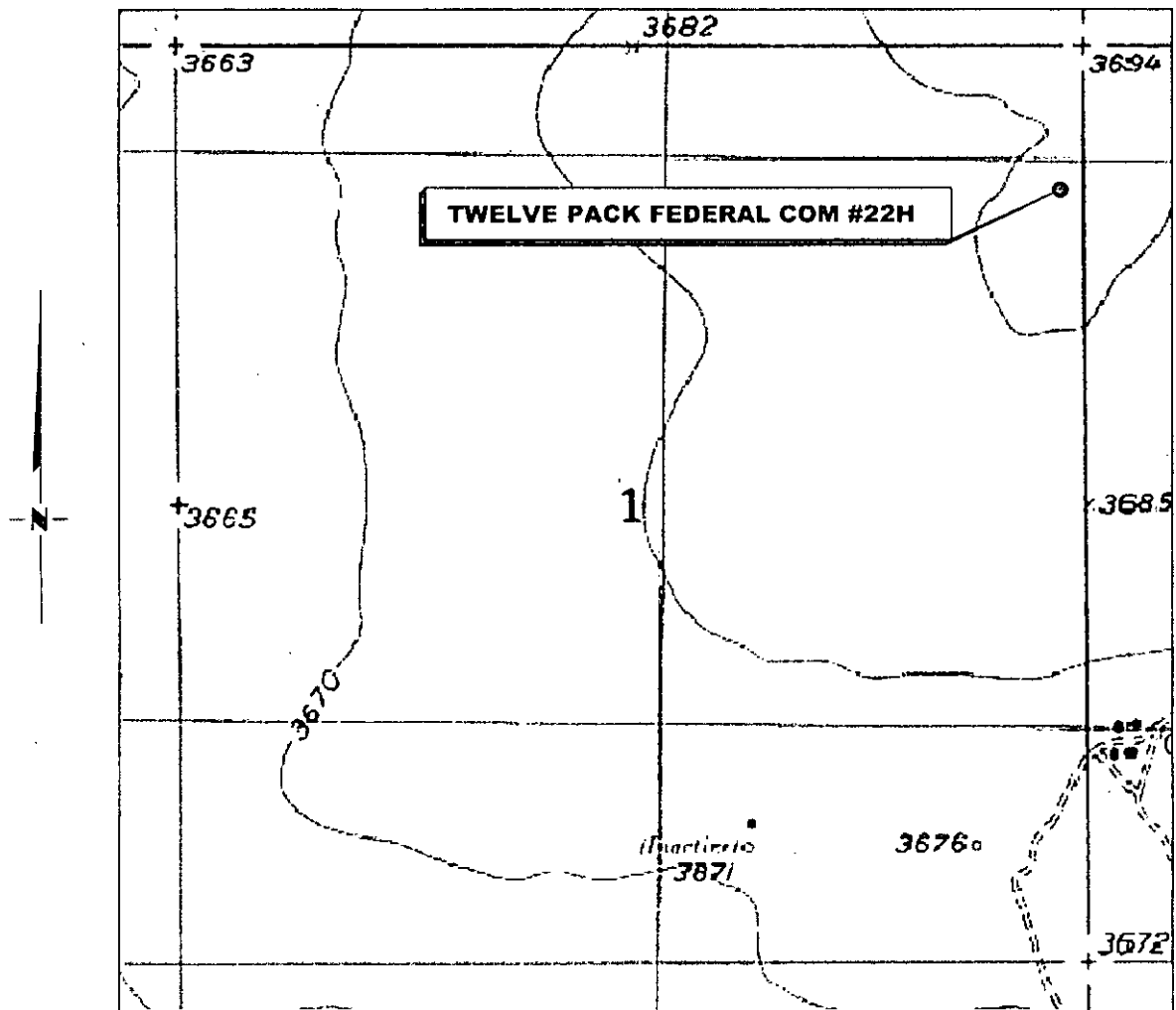


2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'
DATE: 4/6/13
SURVEYED BY: GB
DRAWN BY: AF
APPROVED BY: LWB
SHEET : 1 OF 1

LOCATION VERIFICATION MAP



SECTION 1, TWP. 17 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC

LEASE: Twelve Pack Federal Com

WELL NO.: 22H

ELEVATION: 3691'

LOCATION: 850' FNL & 130' FEL

CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

Red Lake SE, NM (1955)

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2	WELL NAME	2/4/15
1	WELL NAME	5/15/13
NO.	REVISION	DATE
JOB NO.:	LS130109	
DWG. NO.:	130109LVM	

PROSPERITY CONSULTANTS, LLC



2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'

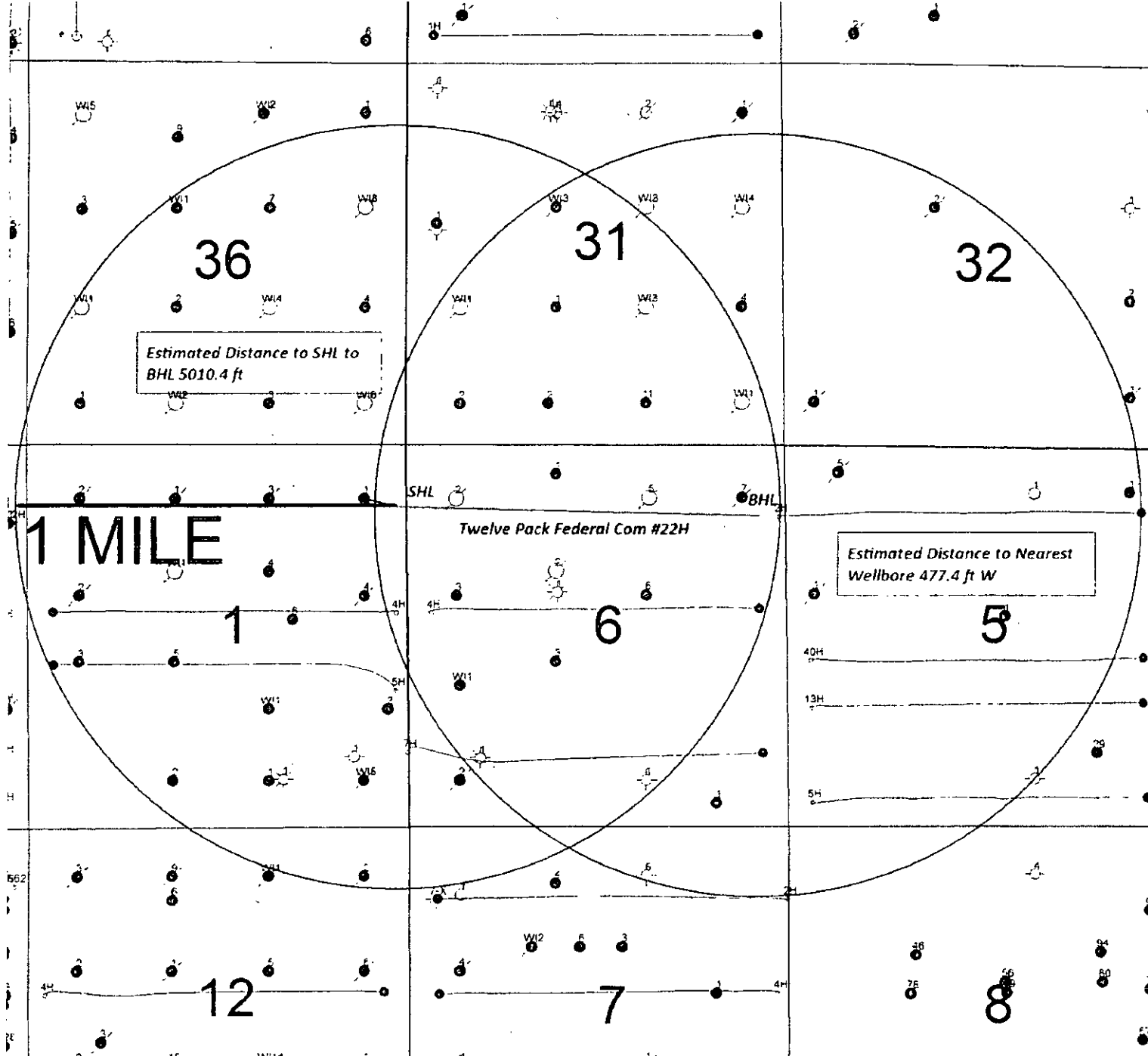
DATE: 4/6/13

SURVEYED BY: GB

DRAWN BY: AF

APPROVED BY: LWB

SHEET : 1 OF 1



	
SENM Shelf Area Twelve Pack Federal Com #22H	
SEC. 1. T17S - R29E SHL 850 FNL 130 FEL. UNIT A SEC. 6. T17S - R30E SHL 973 FNL 330 FEL. UNIT A	
Author:	Date:



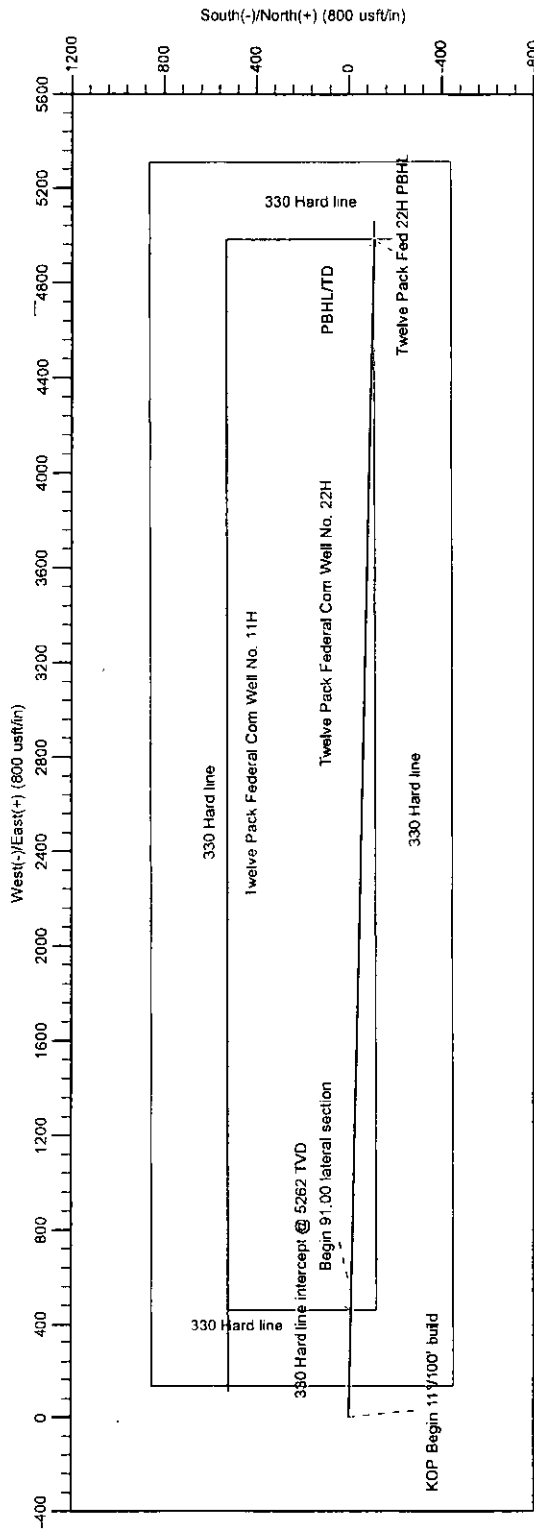
COG Operating LLC

Well: Twelve Pack Federal Com Well No. 22H
Site: Twelve Pack Federal Com
Project: Eddy County, New Mexico
Design: rev0
Rig: United #43

Adjustments to Grid North
True North: -0.17°
Magnetic North: 7.22°
Magnetic Field
Strength: 46585 nT
Dir Angle: 80.61°
Date: 2/12/2015
Model: IGRF2010



PRODIRECTIONAL



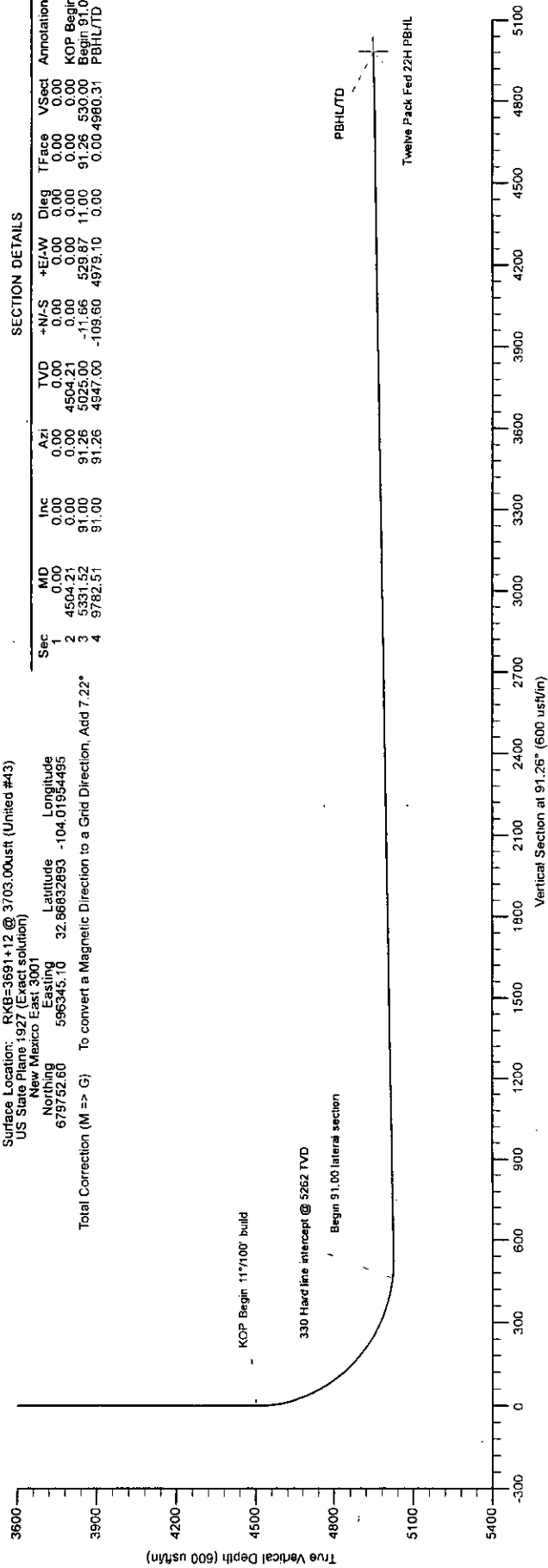
Surface Location: RKB=3691+12 @ 3703.00ust (United #43)
US State Plane 1927 (Exact solution)
New Mexico East 3001

Northing: 596345.10
Easting: 32.86632853
Latitude: -104.01954495
Longitude: -104.01954495

Total Correction (M => G): To convert a Magnetic Direction to a Grid Direction, Add 7.22°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 11'100' build
2	4504.21	0.00	0.00	4504.21	0.00	0.00	0.00	0.00	0.00	Begin 91.00 lateral section
3	5331.52	91.00	91.26	5025.00	-11.66	529.87	11.00	91.26	530.00	Begin 91.00 lateral section
4	9782.51	91.00	91.26	4947.00	-109.60	4979.10	0.00	0.00	0.00	PBHL/TD





COG Operating LLC

Eddy County, New Mexico

Twelve Pack Federal Com

Twelve Pack Federal Com Well No. 22H

Original Hole

SHL: 850 FNL 130 FEL Sect 1-T17S-R29E Lot 1

POE: 861 FNL 330 FWL Sect 6-T17S-R30E Lot 4

BHL: 973 FNL 330 FEL Sect 6-T17S-R30E Lot 1

Plan: rev0

Standard_report

12 February, 2015

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 08 2016

RECEIVED



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Twelve Pack Federal Com Well No. 22H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3691+12 @ 3703.00usft (United #43)
Site:	Twelve Pack Federal Com	MD Reference:	RKB=3691+12 @ 3703.00usft (United #43)
Well:	Twelve Pack Federal Com Well No. 22H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	1 rev0	Database:	Obase Nov0914

Project:	Eddy County, New Mexico	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Twelve Pack Federal Com		
Site Position:		North:	680,272.30 usft
From:	Map	Easting:	596,455.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.86975651
		Longitude:	-104.01918068
		Grid Convergence:	0.17 °

Well:	Twelve Pack Federal Com Well No. 22H, Surf Loc: 850 FNL 130 FEL Sect 1-T7S-R29E Unit 1					
Well Position	+N/-S	0.00 usft	North:	679,752.60 usft	Latitude:	32.86832893
	+E/-W	0.00 usft	Easting:	596,345.10 usft	Longitude:	-104.01954495
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft		Ground Level:	3,691.00 usft

Wellbore:	Original Hole			
Magnetics	Model Name	Sample Date	Dip Angle	Field Strength
	IGRF2010	2/12/2015	7.39	60.61
				48.586

Design:	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	
			0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	0.00	(usft)	(usft)	(°)
		0.00	0.00	91.26

Survey Tool Program:	Date	2/12/2015	
From (usft)	To (usft)	Survey (Wellbore)	Description
0.00	9,782.45	rev0 (Original Hole)	MWD - Standard



Standard_report

Company: COG Operating LLC
Project: Eddy County, New Mexico
Site: Twelve Pack Federal Com
Well: Twelve Pack Federal Com Well No. 22H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well Twelve Pack Federal Com Well No. 22H
TVD Reference: RKB=3691+12 @ 3703.00ust (United #43)
MD Reference: RKB=3691+12 @ 3703.00ust (United #43)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Planned Survey									
MD (ust)	Inc (°)	Azi (azimuth) (°)	TVD (ust)	N/S (ust)	E/W (ust)	DI Leg (°/100ust)	1° Sec (ust)	Northing (ust)	Easting (ust)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10



Standard_report

Company: COG Operating LLC
Project: Eddy County, New Mexico
Site: Twelve Pack Federal Com
Well: Twelve Pack Federal Com Well No. 22H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well Twelve Pack Federal Com Well No. 22H
TVD Reference: RKB=3691+12 @ 3703.00usft (United #43)
MD Reference: RKB=3691+12 @ 3703.00usft (United #43)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Planned Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLeg (°/100usft)	V Sec (usft)	Northing (usft)	Easting (usft)
	2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	679,752.60	596,345.10
	4,504.21	0.00	0.00	4,504.21	0.00	0.00	0.00	0.00	679,752.60	596,345.10
KOP Begin 11"100' build										
	4,500.00	10.54	91.26	4,599.46	-0.19	8.78	11.00	8.78	679,752.41	596,353.88
	4,700.00	21.54	91.26	4,695.42	-0.80	36.36	11.00	36.37	679,751.80	596,381.46
	4,800.00	32.54	91.26	4,784.36	-1.80	81.73	11.00	81.75	679,750.80	596,426.83
	4,900.00	43.54	91.26	4,863.00	-3.15	143.24	11.00	143.28	679,749.45	596,488.34
	5,000.00	54.54	91.26	4,928.45	-4.81	218.62	11.00	218.67	679,747.79	596,563.72
	5,100.00	65.54	91.26	4,978.32	-6.72	305.10	11.00	305.17	679,745.88	596,650.20



Standard_report

Company: COG Operating LLC
Project: Eddy County, New Mexico
Site: Twelve Pack Federal Com
Well: Twelve Pack Federal Com Well No. 22H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well Twelve Pack Federal Com Well No. 22H
TVD Reference: RKB=3691+12 @ 3703.00usft (United #43)
MD Reference: RKB=3691+12 @ 3703.00usft (United #43)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Planned Survey	MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	D Leg (°/100usft)	V. Sec (usft)	Northings (usft)	Eastings (usft)
330 Hard line intercept @ 5262 TVD										
	5,200.00		76.54	91.26	5,010.77	-8.79	399.51	11.00	399.60	596,744.61
	5,262.00		83.36	91.26	5,021.58	-10.14	460.50	11.00	460.61	596,805.60
Begin 91.00 lateral section										
	5,300.00		87.54	91.26	5,024.60	-10.97	498.37	11.00	498.49	596,843.47
	5,331.52		91.00	91.26	5,025.00	-11.66	529.87	11.00	530.00	596,874.97
	5,400.00		91.00	91.26	5,023.80	-13.17	598.32	0.00	598.47	596,943.42
	5,500.00		91.00	91.26	5,022.05	-15.37	698.28	0.00	698.45	597,043.38
	5,600.00		91.00	91.26	5,020.30	-17.57	798.24	0.00	798.44	597,143.34
	5,700.00		91.00	91.26	5,018.54	-19.77	898.20	0.00	898.42	597,243.30
	5,800.00		91.00	91.26	5,016.79	-21.97	998.16	0.00	998.41	597,343.26
	5,900.00		91.00	91.26	5,015.04	-24.17	1,098.13	0.00	1,098.39	597,443.23
	6,000.00		91.00	91.26	5,013.29	-26.37	1,198.09	0.00	1,198.38	597,543.19
	6,100.00		91.00	91.26	5,011.53	-28.57	1,298.05	0.00	1,298.36	597,643.15
	6,200.00		91.00	91.26	5,009.78	-30.77	1,398.01	0.00	1,398.35	597,743.11
	6,300.00		91.00	91.26	5,008.03	-32.97	1,497.97	0.00	1,498.33	597,843.07
	6,400.00		91.00	91.26	5,006.28	-35.17	1,597.93	0.00	1,598.31	597,943.03
	6,500.00		91.00	91.26	5,004.52	-37.37	1,697.89	0.00	1,698.30	598,042.99
	6,600.00		91.00	91.26	5,002.77	-39.57	1,797.85	0.00	1,798.28	598,142.95
	6,700.00		91.00	91.26	5,001.02	-41.77	1,897.81	0.00	1,898.27	598,242.91
	6,800.00		91.00	91.26	4,999.27	-43.97	1,997.77	0.00	1,998.25	598,342.87
	6,900.00		91.00	91.26	4,997.51	-46.18	2,097.73	0.00	2,098.24	598,442.83
	7,000.00		91.00	91.26	4,995.76	-48.38	2,197.69	0.00	2,198.22	598,542.79
	7,100.00		91.00	91.26	4,994.01	-50.58	2,297.65	0.00	2,298.21	598,642.75
	7,200.00		91.00	91.26	4,992.26	-52.78	2,397.61	0.00	2,398.19	598,742.71
	7,300.00		91.00	91.26	4,990.50	-54.98	2,497.57	0.00	2,498.18	598,842.67
	7,400.00		91.00	91.26	4,988.75	-57.18	2,597.53	0.00	2,598.16	598,942.63



Standard_report

Company: COG Operating LLC
Project: Eddy County, New Mexico
Site: Twelve Pack Federal Com Well No. 22H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well Twelve Pack Federal Com Well No. 22H
TVD Reference: RKB=3691+12 @ 3703.00usft (United #43)
MD Reference: RKB=3691+12 @ 3703.00usft (United #43)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Planned Survey	MD (usft)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	D Leg (°/100usft)	Sec (usft)	Northing (usft)	Easting (usft)
	7,500.00	91.00	91.26	4,987.00	-59.38	2,697.49	0.00	2,698.15	599,042.59
	7,500.00	91.00	91.26	4,985.25	-61.58	2,797.45	0.00	2,798.13	599,142.55
	7,700.00	91.00	91.26	4,983.49	-63.78	2,897.41	0.00	2,898.11	599,242.51
	7,800.00	91.00	91.26	4,981.74	-65.98	2,997.37	0.00	2,998.10	599,342.47
	7,900.00	91.00	91.26	4,979.99	-68.18	3,097.33	0.00	3,098.08	599,442.43
	8,000.00	91.00	91.26	4,978.24	-70.38	3,197.29	0.00	3,198.07	599,542.39
	8,100.00	91.00	91.26	4,976.48	-72.58	3,297.25	0.00	3,298.05	599,642.35
	8,200.00	91.00	91.26	4,974.73	-74.78	3,397.22	0.00	3,398.04	599,742.32
	8,300.00	91.00	91.26	4,972.98	-76.98	3,497.18	0.00	3,498.02	599,842.28
	8,400.00	91.00	91.26	4,971.23	-79.18	3,597.14	0.00	3,598.01	599,942.24
	8,500.00	91.00	91.26	4,969.48	-81.38	3,697.10	0.00	3,697.99	600,042.20
	8,600.00	91.00	91.26	4,967.72	-83.58	3,797.06	0.00	3,797.98	600,142.16
	8,700.00	91.00	91.26	4,965.97	-85.78	3,897.02	0.00	3,897.96	600,242.12
	8,800.00	91.00	91.26	4,964.22	-87.98	3,996.98	0.00	3,997.95	600,342.08
	8,900.00	91.00	91.26	4,962.47	-90.18	4,096.94	0.00	4,097.93	600,442.04
	9,000.00	91.00	91.26	4,960.71	-92.38	4,196.90	0.00	4,197.92	600,542.00
	9,100.00	91.00	91.26	4,958.96	-94.58	4,296.86	0.00	4,297.90	600,641.96
	9,200.00	91.00	91.26	4,957.21	-96.78	4,396.82	0.00	4,397.88	600,741.92
	9,300.00	91.00	91.26	4,955.46	-98.98	4,496.78	0.00	4,497.87	600,841.88
	9,400.00	91.00	91.26	4,953.70	-101.18	4,596.74	0.00	4,597.85	600,941.84
	9,500.00	91.00	91.26	4,951.95	-103.38	4,696.70	0.00	4,697.84	601,041.80
	9,600.00	91.00	91.26	4,950.20	-105.58	4,796.66	0.00	4,797.82	601,141.76
	9,700.00	91.00	91.26	4,948.45	-107.78	4,896.62	0.00	4,897.81	601,241.72
	9,782.51	91.00	91.26	4,947.00	-109.60	4,979.10	0.00	4,980.31	601,324.20
PBHL/JTD									



Standard_report

Company: COG Operating LLC
Project: Eddy County, New Mexico
Site: Twelve Pack Federal Com
Well: Twelve Pack Federal Com Well No. 22H
Wellbore: Original Hole
Design: - rev0

Local Co-ordinate Reference: Well Twelve Pack Federal Com Well No. 22H
TVD Reference: RKB=3691+12 @ 3703.00usft (United #43)
MD Reference: RKB=3691+12 @ 3703.00usft (United #43)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates NI-S (usft)	Local Coordinates E-W (usft)	Comment
4,504.21	4,504.21	0.00	0.00	KOP Begin 11'100' build
5,262.00	5,021.58	-10.14	460.50	330 Hard line intercept @ 5262 TVD
5,331.52	5,025.00	-11.66	529.87	Begin 91.00 lateral section
9,782.51	4,947.00	-109.60	4,979.10	PBHL/TD