

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

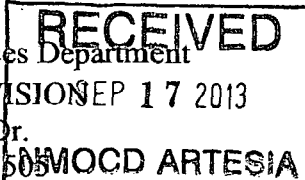
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION SEP 17 2013
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 30-015-41663	Pool Code 15960	Pool Name Dayton, Grayburg
Property Code 38907	Property Name LEE 3 FEE	Well Number 7H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3334'

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	3	19-S	26-E		150	SOUTH	1650	EAST	EDDY

Bottom Hole Location If Different From Surface

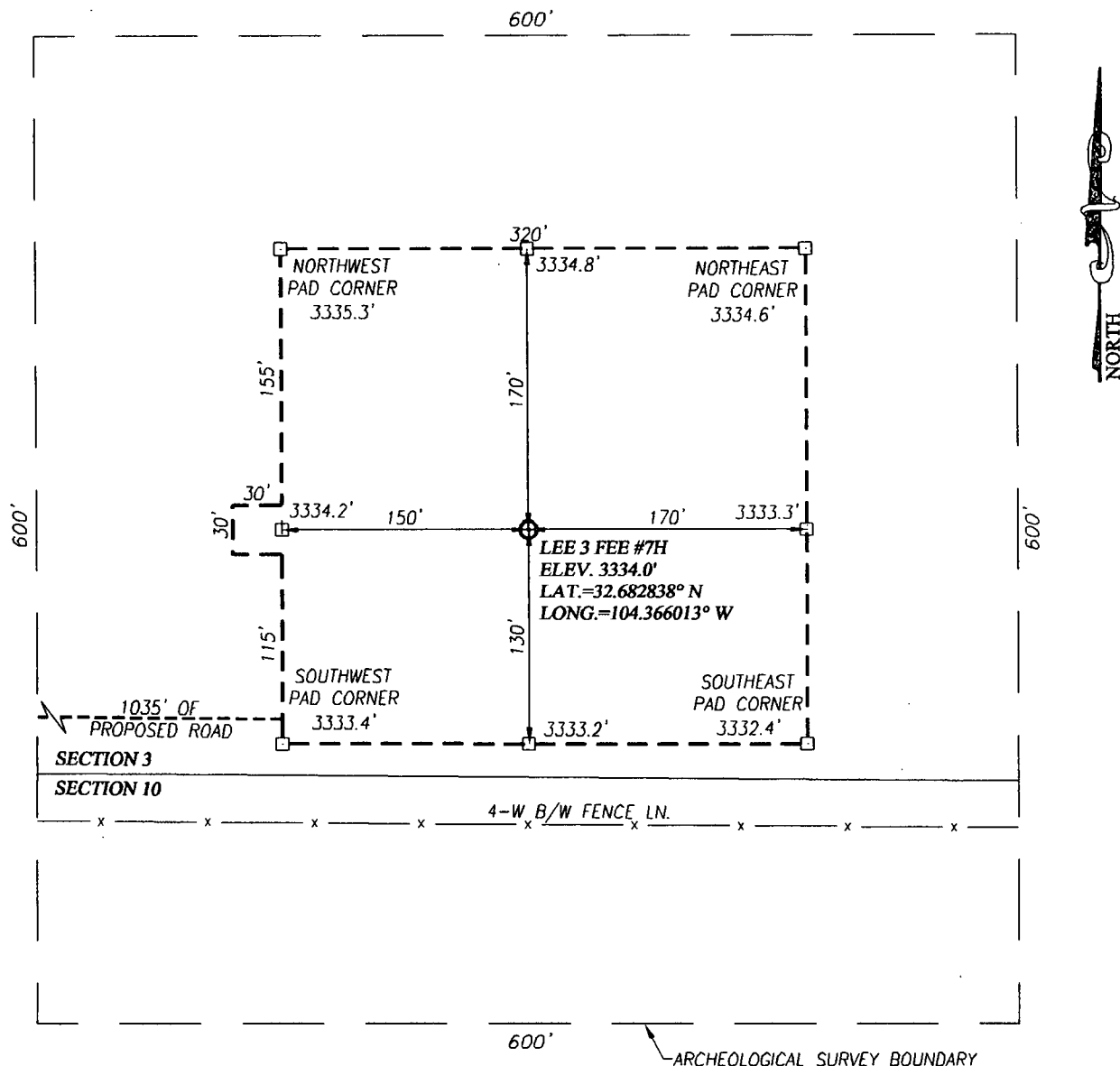
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	3	19-S	26-E	2	330	NORTH	1652	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
159.23			

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

CORNER COORDINATES TABLE A - Y=617258.5 N, X=488900.2 E B - Y=617245.5 N, X=490221.7 E C - Y=611976.4 N, X=490268.9 E D - Y=611986.9 N, X=488941.2 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=612128.9 N X=489945.3 E LAT. = 32.682838° N LONG. = 104.366013° W BOTTOM HOLE LOCATION Y=616918.8 N X=489894.7 E Estimated Completed Interval: 330 FSL 1650 FSL	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. 6-18-13 Signature Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address 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. MAY 30, 2013 Date of Survey Signature & Seal of Professional Surveyor: Certification Number: 3239 Professional Surveyor: Ronald J. Eidson BK1. JWSC W.O. 13.11.0570
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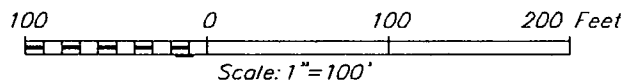
SECTION 3, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY NEW MEXICO



NOTE:
 SEE "LOCATION VERIFICATION MAP"
 FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO LEE 3 FEE #7H:

FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND CO. RD. 38 (KINCAID RANCH) GO EAST APPROX. 1.0 MILES; TURN RIGHT AND GO SOUTH ON CO. RD. 34 (LAKE RD.) APPROX. 1.9 MILES. FOLLOW ROAD SURVEY STAKES APPROX. 3700 FEET EAST TO THIS LOCATION.



COG OPERATING, LLC

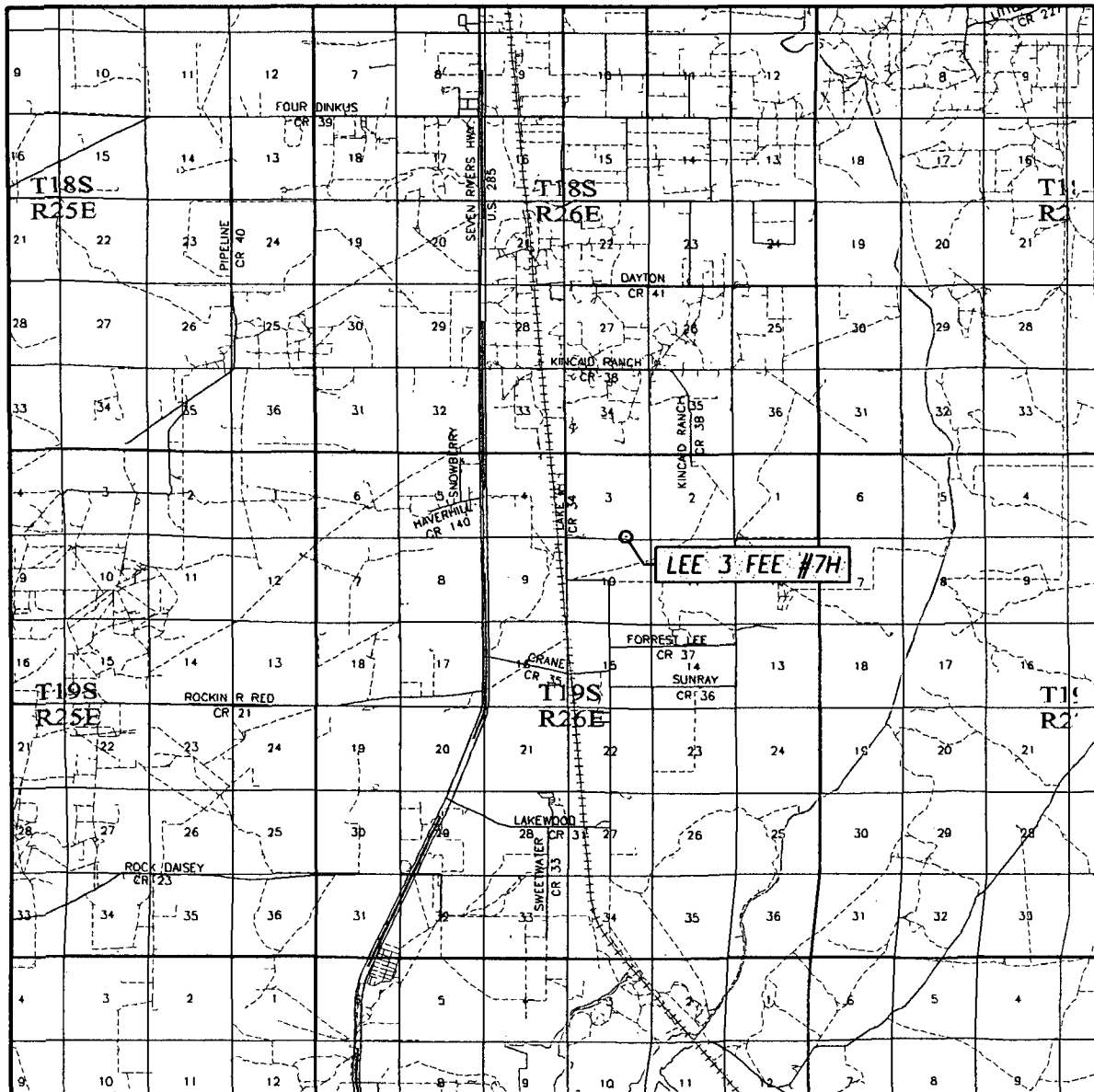
LEE 3 FEE #7H WELL
 LOCATED 150 FEET FROM THE SOUTH LINE
 AND 1650 FEET FROM THE EAST LINE OF SECTION 3,
 TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO

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

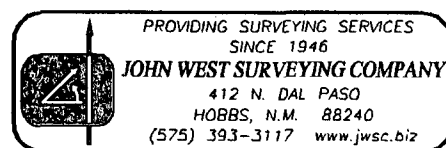
Survey Date: 5/30/13	CAD Date: 6/12/12	Drawn By: BKL
W.O. No.: 13110570	Rev.:	Rel. W.O.:

Sheet 1 of 1

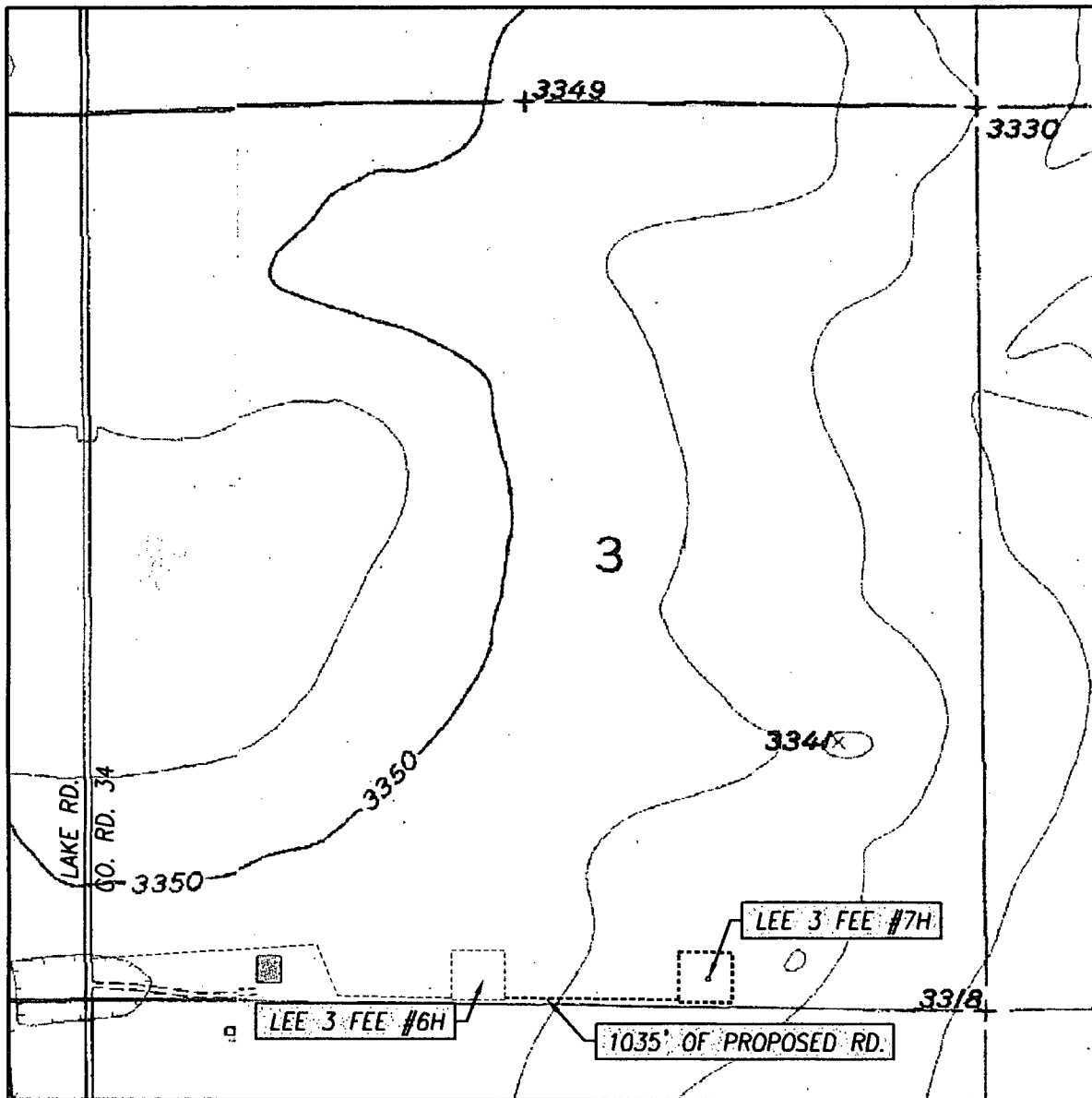
VICINITY MAP



SEC. 3 TWP. 19-S RGE. 26-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 150' FSL & 1650' FEL
 ELEVATION 3334'
 OPERATOR COG OPERATING, LLC
 LEASE LEE 3 FEE



LOCATION VERIFICATION MAP



SCALE: 1" = 1000'

SEC. 3 TWP. 19-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 150' FSL & 1650' FEL

ELEVATION 3334'

OPERATOR COG OPERATING, LLC

LEASE LEE 3 FEE

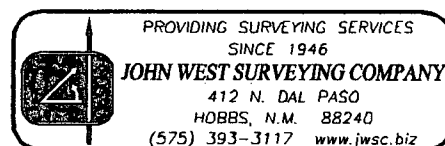
U.S.G.S. TOPOGRAPHIC MAP

LAKE McMILLAN N., N.M.

CONTOUR INTERVAL:

LAKE McMILLAN N., N.M. - 10'

DAYTON, N.M. - 5'





RECEIVED

SEP 17 2013

NMOCD ARTESIA

COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Lee 3 Fee

#7H

WB1

Plan: Plan #3 09-09-13

Surface: 150' FSL, 1650' FEL, Sec 3, T19S, R26E, Unit O

PP: 330' FSL, 1650' FEL, Sec 3, T19S, R26E, Unit O

BHL: 330' FNL, 1652' FEL, Sec 3, T19S, R26E, Unit B

Standard Planning Report

09 September, 2013



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #7H
Company:	COG Operating LLC	TVD Reference:	GL @ 3334.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3334.00usft
Site:	Lee 3 Fee	North Reference:	Grid
Well:	#7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3 09-09-13		

Project	Eddy County, New Mexico (NAD 27 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	Lee 3 Fee		
Site Position:	From:	Map	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Northing:	612,139.80 usft
		Easting:	488,590.40 usft
		Latitude:	32° 40' 58.31847 N
		Longitude:	104° 22' 13.49969 W
		Grid Convergence:	-0.02 °

Well	#7H		
Well Position	+N-S	-10.90 usft	Northing:
	+E-W	1,354.90 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 40' 58.21502 N
		Longitude:	104° 21' 57.64645 W
		Ground Level:	3,334.00 usft

Wellbore	WB1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	09/09/13	7.71
			Dip Angle
			60.42
			Field Strength
			48,581

Design	Plan #3 09-09-13		
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
			359.39

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,864.57	0.00	0.00	2,864.57	0.00	0.00	0.00	0.00	0.00	0.00	
3,687.30	90.50	357.00	3,385.42	524.70	-27.50	11.00	11.00	0.00	357.00	
3,777.91	90.50	359.72	3,384.63	615.26	-30.09	3.00	0.00	3.00	89.99	
7,952.76	90.50	359.72	3,348.20	4,789.90	-50.60	0.00	0.00	0.00	0.00	PBHL-Lee 3 Fee #7H



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #7H
Company:	COG Operating LLC	TVD Reference:	GL @ 3334.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3334.00usft
Site:	Lee 3 Fee	North Reference:	Grid
Well:	#7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3, 09-09-13		

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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,864.57	0.00	0.00	2,864.57	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 11.00									
2,900.00	3.90	357.00	2,899.97	1.20	-0.06	1.20	11.00	11.00	0.00
3,000.00	14.90	357.00	2,998.48	17.48	-0.92	17.49	11.00	11.00	0.00
3,100.00	25.90	357.00	3,092.07	52.24	-2.74	52.26	11.00	11.00	0.00
3,200.00	36.90	357.00	3,177.29	104.18	-5.46	104.23	11.00	11.00	0.00
3,300.00	47.90	357.00	3,251.03	171.41	-8.98	171.50	11.00	11.00	0.00
3,311.46	49.16	357.00	3,258.61	179.98	-9.43	180.07	11.00	11.00	0.00
PP-Lee 3 Fee #7H									
3,400.00	58.90	357.00	3,310.56	251.46	-13.18	251.58	11.00	11.00	0.00
3,500.00	69.90	357.00	3,353.71	341.38	-17.89	341.55	11.00	11.00	0.00
3,600.00	80.90	357.00	3,378.88	437.87	-22.95	438.08	11.00	11.00	0.00
3,685.80	90.34	357.00	3,385.43	523.20	-27.42	523.46	11.00	11.00	0.00
TL, 3390' TVD @ 0 VZ, 90.5° Inc									
3,687.30	90.50	357.00	3,385.42	524.70	-27.50	524.96	11.00	11.00	0.00
LP Start DLS 3.00 TFO 89.99									
3,700.00	90.50	357.38	3,385.31	537.38	-28.12	537.65	3.00	0.00	3.00
3,777.91	90.50	359.72	3,384.63	615.26	-30.09	615.55	3.00	0.00	3.00
Start 4174.85 hold at 3777.91 MD									
3,800.00	90.50	359.72	3,384.44	637.35	-30.20	637.63	0.00	0.00	0.00
3,900.00	90.50	359.72	3,383.56	737.34	-30.69	737.63	0.00	0.00	0.00
4,000.00	90.50	359.72	3,382.69	837.34	-31.18	837.62	0.00	0.00	0.00
4,100.00	90.50	359.72	3,381.82	937.33	-31.67	937.62	0.00	0.00	0.00
4,200.00	90.50	359.72	3,380.95	1,037.33	-32.17	1,037.61	0.00	0.00	0.00
4,300.00	90.50	359.72	3,380.07	1,137.32	-32.66	1,137.61	0.00	0.00	0.00



Phoenix Technology Services Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #7H
Company:	COG Operating LLC	TVD Reference:	GL @ 3334.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3334.00usft
Site:	Lee 3 Fee	North Reference:	Grid
Well:	#7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3 09-09-13		

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)
4,400.00	90.50	359.72	3,379.20	1,237.32	-33.15	1,237.60	0.00	0.00	0.00
4,500.00	90.50	359.72	3,378.33	1,337.31	-33.64	1,337.59	0.00	0.00	0.00
4,600.00	90.50	359.72	3,377.46	1,437.31	-34.13	1,437.59	0.00	0.00	0.00
4,700.00	90.50	359.72	3,376.58	1,537.30	-34.62	1,537.58	0.00	0.00	0.00
4,800.00	90.50	359.72	3,375.71	1,637.30	-35.11	1,637.58	0.00	0.00	0.00
4,900.00	90.50	359.72	3,374.84	1,737.29	-35.60	1,737.57	0.00	0.00	0.00
5,000.00	90.50	359.72	3,373.97	1,837.29	-36.10	1,837.57	0.00	0.00	0.00
5,100.00	90.50	359.72	3,373.09	1,937.28	-36.59	1,937.56	0.00	0.00	0.00
5,200.00	90.50	359.72	3,372.22	2,037.28	-37.08	2,037.56	0.00	0.00	0.00
5,300.00	90.50	359.72	3,371.35	2,137.27	-37.57	2,137.55	0.00	0.00	0.00
5,400.00	90.50	359.72	3,370.48	2,237.27	-38.06	2,237.55	0.00	0.00	0.00
5,500.00	90.50	359.72	3,369.60	2,337.26	-38.55	2,337.54	0.00	0.00	0.00
5,600.00	90.50	359.72	3,368.73	2,437.26	-39.04	2,437.53	0.00	0.00	0.00
5,700.00	90.50	359.72	3,367.86	2,537.25	-39.53	2,537.53	0.00	0.00	0.00
5,800.00	90.50	359.72	3,366.99	2,637.25	-40.03	2,637.52	0.00	0.00	0.00
5,900.00	90.50	359.72	3,366.11	2,737.24	-40.52	2,737.52	0.00	0.00	0.00
6,000.00	90.50	359.72	3,365.24	2,837.24	-41.01	2,837.51	0.00	0.00	0.00
6,100.00	90.50	359.72	3,364.37	2,937.23	-41.50	2,937.51	0.00	0.00	0.00
6,200.00	90.50	359.72	3,363.49	3,037.23	-41.99	3,037.50	0.00	0.00	0.00
6,300.00	90.50	359.72	3,362.62	3,137.22	-42.48	3,137.50	0.00	0.00	0.00
6,400.00	90.50	359.72	3,361.75	3,237.22	-42.97	3,237.49	0.00	0.00	0.00
6,500.00	90.50	359.72	3,360.88	3,337.21	-43.46	3,337.49	0.00	0.00	0.00
6,600.00	90.50	359.72	3,360.00	3,437.21	-43.95	3,437.48	0.00	0.00	0.00
6,700.00	90.50	359.72	3,359.13	3,537.20	-44.45	3,537.48	0.00	0.00	0.00
6,800.00	90.50	359.72	3,358.26	3,637.20	-44.94	3,637.47	0.00	0.00	0.00
6,900.00	90.50	359.72	3,357.39	3,737.19	-45.43	3,737.46	0.00	0.00	0.00
7,000.00	90.50	359.72	3,356.51	3,837.19	-45.92	3,837.46	0.00	0.00	0.00
7,100.00	90.50	359.72	3,355.64	3,937.18	-46.41	3,937.45	0.00	0.00	0.00
7,200.00	90.50	359.72	3,354.77	4,037.18	-46.90	4,037.45	0.00	0.00	0.00
7,300.00	90.50	359.72	3,353.90	4,137.17	-47.39	4,137.44	0.00	0.00	0.00
7,400.00	90.50	359.72	3,353.02	4,237.17	-47.88	4,237.44	0.00	0.00	0.00
7,500.00	90.50	359.72	3,352.15	4,337.16	-48.38	4,337.43	0.00	0.00	0.00
7,600.00	90.50	359.72	3,351.28	4,437.16	-48.87	4,437.43	0.00	0.00	0.00
7,700.00	90.50	359.72	3,350.41	4,537.15	-49.36	4,537.42	0.00	0.00	0.00
7,800.00	90.50	359.72	3,349.53	4,637.15	-49.85	4,637.42	0.00	0.00	0.00
7,900.00	90.50	359.72	3,348.66	4,737.14	-50.34	4,737.41	0.00	0.00	0.00
7,952.76	90.50	359.72	3,348.20	4,789.90	-50.60	4,790.17	0.00	0.00	0.00

TD at 7952.76 - PBHL-Lee 3 Fee #7H

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									
PP-Lee 3 Fee #7H	0.00	0.00	3,258.63	180.00	-9.43	612,308.90	489,935.87	32° 40' 59.99620 N	104° 21' 57.75747 W
- plan hits target center									
- Point									
PBHL-Lee 3 Fee #7H	-90.40	0.07	3,348.20	4,789.90	-50.60	616,918.80	489,894.70	32° 41' 45.61399 N	104° 21' 58.25585 W
- plan hits target center									
- Point									



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #7H
Company:	COG Operating LLC	TVD Reference:	GL @ 3334.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3334.00usft
Site:	Lee 3 Fee	North Reference:	Grid
Well:	#7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3 09-09-13		

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,685.80	3,385.43	TL, 3390' TVD @ 0 VZ, 90.5° Inc		-0.50	359.39

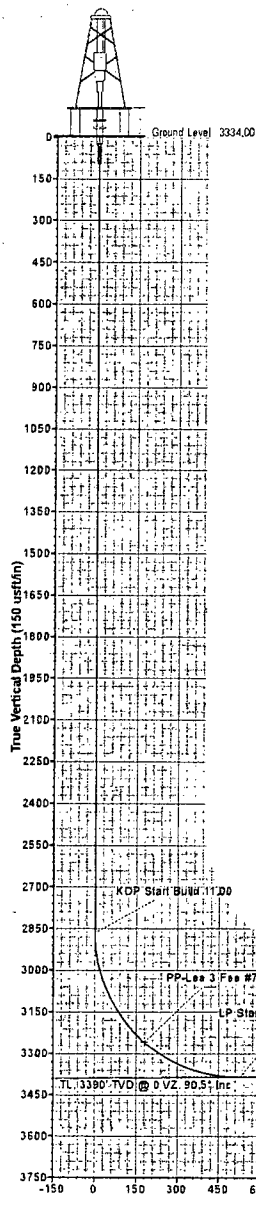
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
2,864.57	2,864.57	0.00	0.00	KOP Start Build 11.00
3,687.30	3,385.42	524.70	-27.50	LP Start DLS 3.00 TFO 89.99
3,777.91	3,384.63	615.26	-30.09	Start 4174.85 hold at 3777.91 MD
7,952.76	3,348.20	4,789.90	-50.60	TD at 7952.76



Project: Eddy County, New Mexico (NAD 27 NME)
Site: Lee 3 Fee
Well: #7H
Wellbore: WB1
Design: Plan #3 09-09-13



Azinuths to Grid North
True North: 0.02°
Magnetic North: 7.73°
Magnetic Field
Strength: 48581.2nT
Dip Angle: 66.42°
Date: 09/09/2013
Model: IGRF2010_14



WELL DETAILS									
	+N/S	+E/W	Northing	Ground Level	3334.00	Latitude	Longitude		
	0.00	0.00	612128.90	Easting	488945.30	32° 40' 58.21501 N	104° 21' 57.54645 W		

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	Tface	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2864.57	0.00	0.00	2864.57	0.00	0.00	0.00	0.00	0.00
3	3687.30	90.50	357.00	3385.42	52.470	-27.50	11.00	357.00	52.495
4	3777.91	90.50	359.72	3384.63	515.29	-30.29	0.00	89.99	515.55
5	7552.76	90.50	359.72	3048.20	4789.90	-50.50	0.00	4790.17	PBHL-Lee 3 Fee #7H

DESIGN TARGET DETAILS									
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape	
PP-Lee 3 Fee #7H	3258.53	180.00	-9.43	612308.90	489935.97	32° 40' 59.8620 N	104° 21' 57.75747 W	Point	
PBHL-Lee 3 Fee #7H	-	-	-	-	-	-	-	-	-

PROJECT DETAILS: Eddy County, New Mexico (NAD 27 NME)
Geoidic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1856
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Lee 3 Fee
Site Centre Northing: 612139.80
Easting: 488950.40
Positional Uncertainty: 0.00
Convergence: -0.02
Local North: Grid

LEGEND
Plan #3 09-09-13

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1856
Zone Name: New Mexico East 3001
Local Origin: Well #7H, Grid North
Latitude: 32° 40' 58.21501 N
Longitude: 104° 21' 57.54645 W
Grid East: 488945.30
Grid North: 612128.90
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 09-Sep-13
Magnetic Declination: 7.71°
Dip Angle from Horizontal: 60.42°
Magnetic Field Strength: 48581
To convert a Magnetic Direction to a Grid Direction, Add 7.73°
To convert a Magnetic Direction to a True Direction, Add 7.71° East
To convert a True Direction to a Grid Direction, Add 0.02°

FORMATION TOP DETAILS				
TVD	MD	MDP	Formation	Dip Angle
3385.43	3685.80	TL	3380 TVD @ DVZ 90.5° Inc	-0.50

