

Submit 1 Copy To Appropriate District
Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

WELL API NO. 30-015-39625
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Arabian 6 Fee
8. Well Number 6H
9. OGRID Number 229137
10. Pool name or Wildcat Penasco Draw; SA-Yeso (Assoc) 50270

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐
2. Name of Operator COG Operating LLC
3. Address of Operator One Concho Center - 600 W Illinois Ave Midland, TX 79701
4. Well Location Unit Letter N 150 feet from the SOUTH line and 2267 feet from the WEST line Section 6 Township 19S Range 26E NMPM County EDDY
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3372'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: Change SHL ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14-NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC submitted APD for this well at this location:
SHL: 150' FSL 2267' FWL Unit N
BHL: 330' FNL 2177' FWL Lot 3

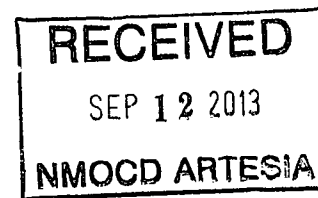
COG Operating LLC respectfully requests permission to change the SHL:
SHL: 183' FSL 2267' FWL Unit N
BHL: 330' FNL 2177' FWL Lot 3 ✓

Reason for changing the SHL is due to a gas line too close to original location.

A revised C-102 and directional plan are attached for your review.

Spud Date:

Rig Release Date:



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Permitting Tech DATE 09-12-13

Type or print name Kelly J. Holly E-mail address: kholly@concho.com PHONE: 432-685-4384
For State Use Only

APPROVED BY: [Signature] TITLE "Geologist" DATE 9/12/2013
Conditions of Approval (if any):

DISTRICT I
1625 N. Frank Dr., Hobbs, NM 88240
Phone: (505) 392-6661 Fax: (505) 392-9226

DISTRICT II
311 S. First St., Artesia, NM 88210
Phone: (505) 745-1283 Fax: (505) 745-9795

DISTRICT III
1006 Rq. Frances Road, Aztec, NM 87410
Phone: (505) 334-4072 Fax: (505) 334-4170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 426-3469 Fax: (505) 476-3462

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 30-015-39625	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (Assoc)
Property Code 38804	Property Name ARABIAN 6 FEE	Well Number 6H
CGNID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3372

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	6	19-S	26-E		183	SOUTH	2267	WEST	EDDY

Bottom Hole Location (If Different From Surface)

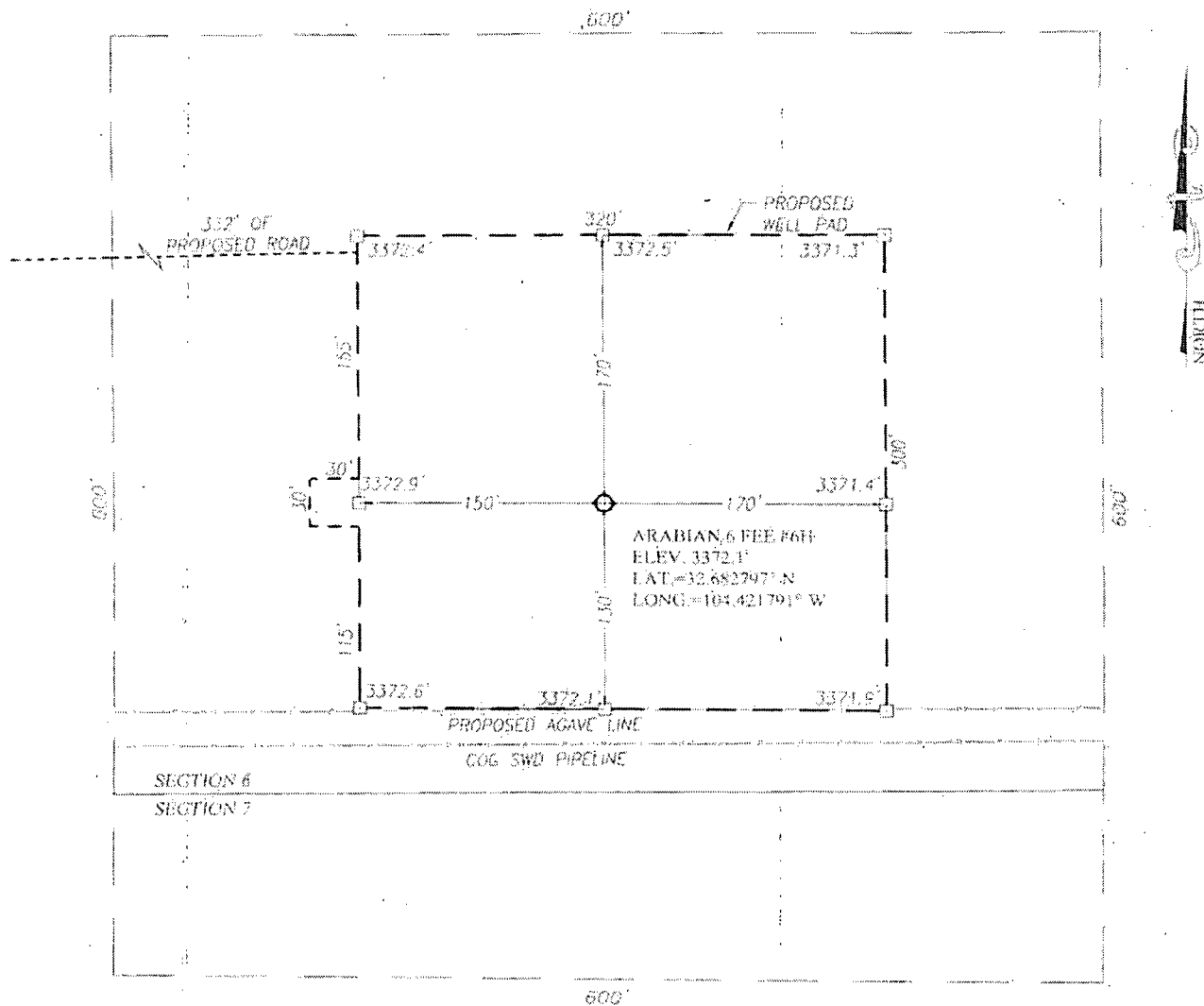
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	19-S	26-E		330	NORTH	2177	WEST	EDDY

Dedicated Acres 159.77	Joint or Infill	Consolidation Code	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

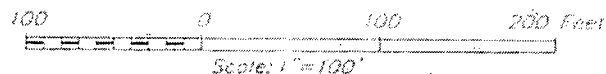
	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest (or an EDD) in the mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or it is a voluntary pooling agreement or a compulsory pooling order heretofore covered by the division. 8-28-13 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. AUGUST 16, 2013 Date of Survey 8/27/2013 Signature & Seal of Professional Surveyor 12641 Certificate Number Ronald J. Eldson 3234 Name & License Number ACK. REBAC O. HORTON & SONS W.D. H. FLORES
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Estimated
Completed
Interval:
330 FSL
2247 FWL



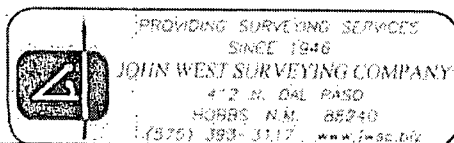
DIRECTIONS TO LOCATION

FROM HIGHWAY 285 AND CO. RD. 35 (KINCAID RANCH), GO WEST APPROX. 2.75 MILES ON CO. RD. 35; TURN LEFT (SOUTH) AND GO APPROX. 0.5 MILES; TURN LEFT (EAST) AND GO APPROX. 1 MILE; TURN RIGHT (SOUTH) AND GO APPROX. 1 MILE TO THE ARABIAN 6 FEE #6H. FROM THE SOUTHEAST PAD CORNER FOLLOW PROPOSED ROAD 511 FEET SOUTHEAST TO THE ARABIAN 6 FEE #6H FROM THE NORTHEAST CORNER OF #5H LOCATION; GO EAST 758 FEET TO THE LOCATION.



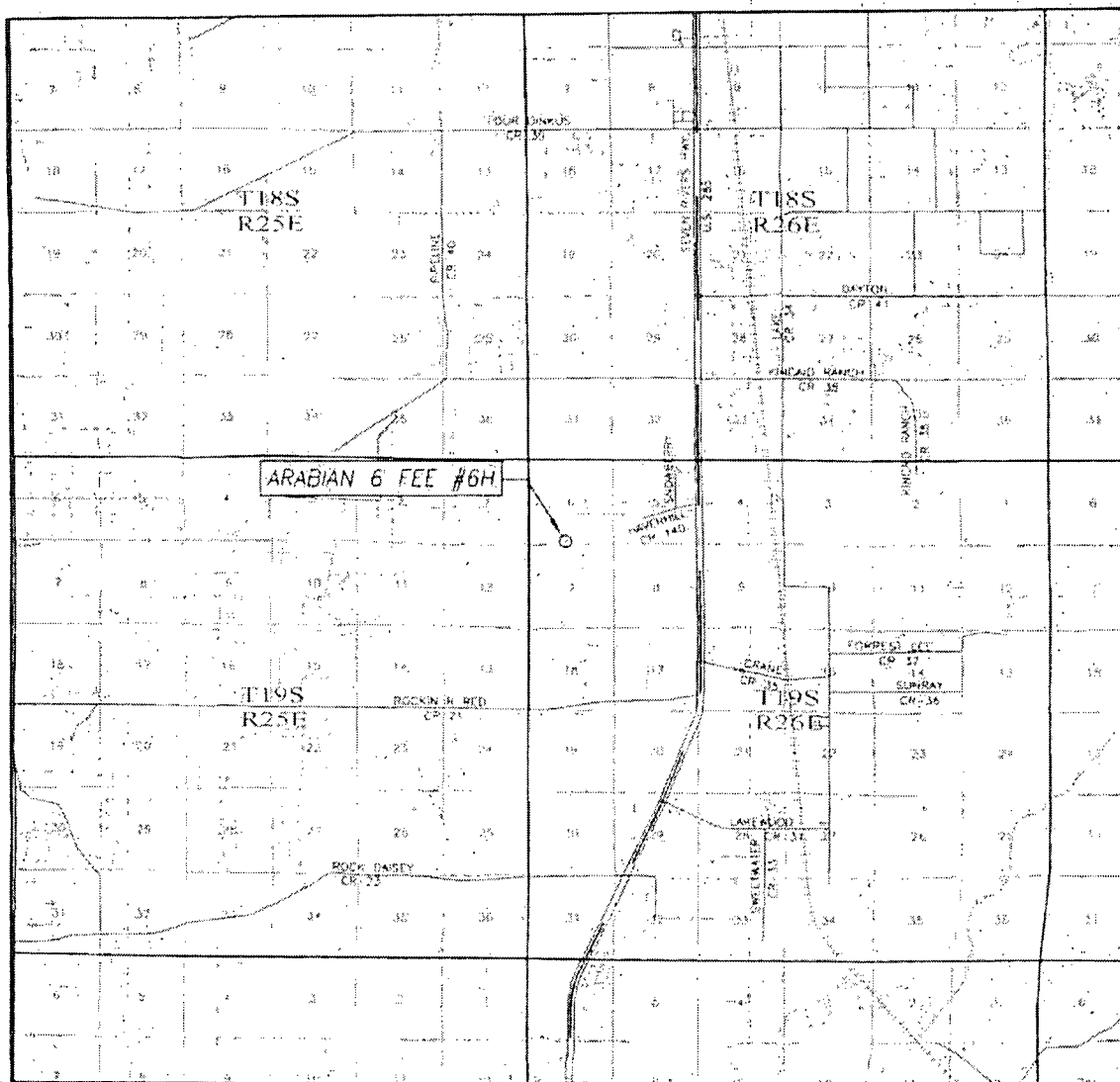
COG OPERATING, LLC

ARABIAN 6 FEE #6H WELL
LOCATED 183 FEET FROM THE SOUTH LINE
AND 2267 FEET FROM THE WEST LINE OF SECTION 6.
TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



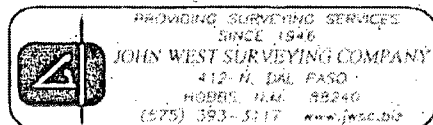
Survey Date: 8/16/13	CAD Date: 8/22/13	Drawn By: ADL
W.O. No.: 13110928	Rev:	Rel. W.O.: 13110929

S
NORTH

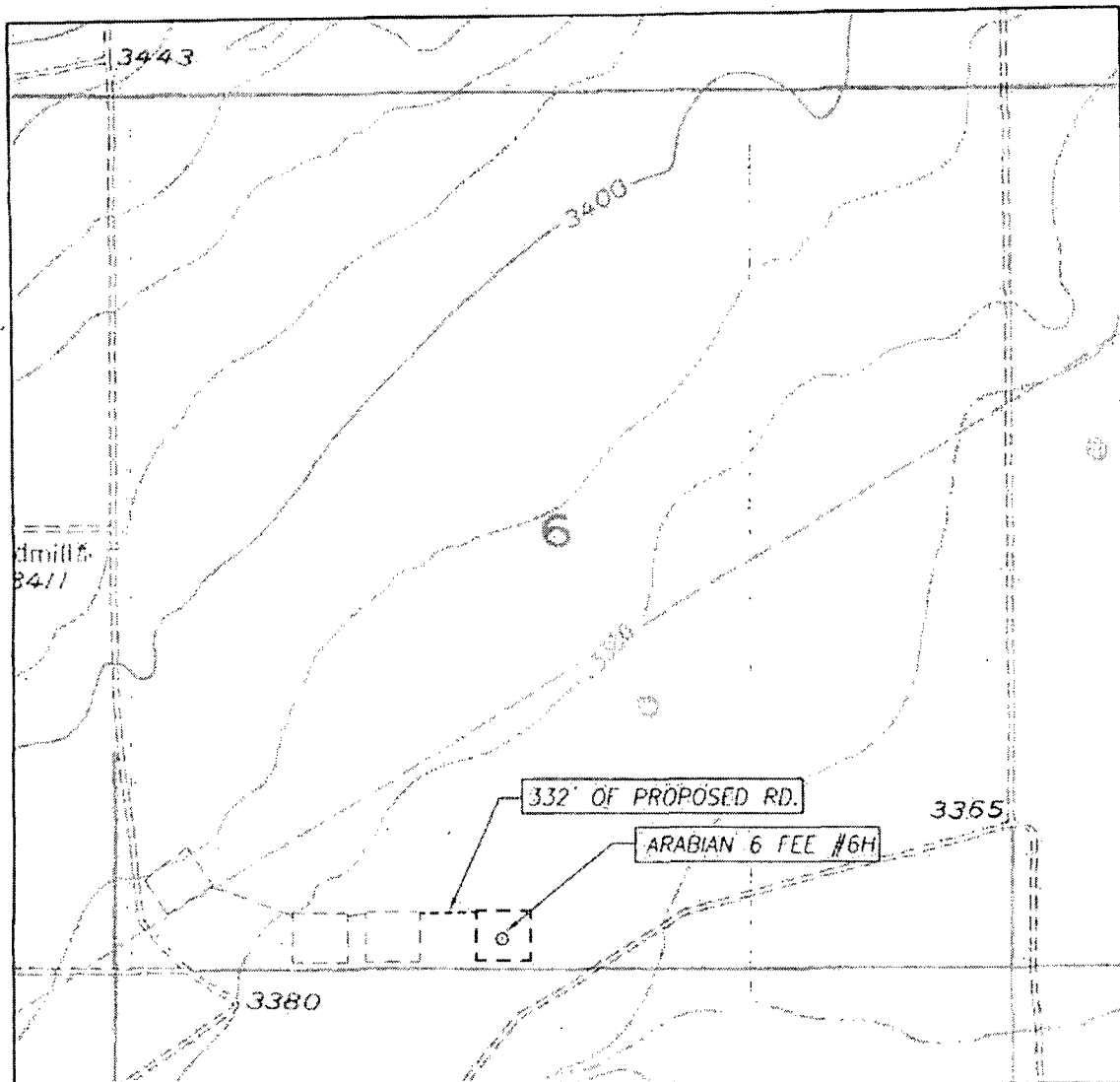


SCALE: 1" = 2 MILES

SEC. 6 TWP. 19-S RGE. 25-E
SURVEY N.M.P.M.
COUNTY EDDY STATE NEW MEXICO
DESCRIPTION 133' ESL & 2267' FWL
ELEVATION 3372'
OPERATOR GOG OPERATING, LLC
EDDYSE ARABIAN 6 FEE



LOCATION VERIFICATION MAP



SCALE: 1" = 1000'

CONTOUR INTERVAL:
DAYTON, N.M. - 10'

SEC. 6 TWP. 19-S. RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

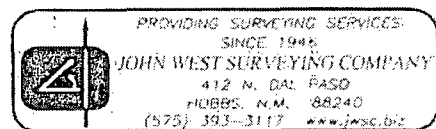
DESCRIPTION 183' FSL & 2267' FWL

ELEVATION 3372'

OPERATOR COG OPERATING, LLC

EDDYSE ARABIAN 6 FEE

U.S.G.S. TOPOGRAPHIC MAP
DAYTON, N.M.





COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Arabian 6 Fee

#6H

WB1

Plan: Plan #2 09-10-13

Surface: 183' FSL, 2267' FWL, Sec 6, T19S, R26E, Unit N

PP: 330' FSL, 2267' FWL, Sec 6, T19S, R26E, Unit N

BHL: 330' FNL, 2177' FWL, Sec 6, T19S, R26E, Lot #3

Standard Planning Report

10 September, 2013





Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #6H
Company:	COG Operating LLC	TVD Reference:	GL @ 3372.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3372.00usft
Site:	Arabian 6 Fee	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 09-10-13		

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	Arabian 6 Fee		
Site Position:	Northings:	612,084.20 usft	Latitude: 32° 40' 57.67030 N
From: Map	Easting:	472,131.70 usft	Longitude: 104° 25' 26.07641 W
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: -0.05 °

Well	#6H		
Well Position	+N/-S	39.70 usft	Northings: 612,123.90 usft
	+E/-W	652.10 usft	Easting: 472,783.80 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level: 3,372.00 usft

Wellbore	WB1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	09/10/13	7.74
			Dip Angle
			(°)
			60.41
			Field Strength
			(nT)
			48,575

Design	Plan #2 09-10-13		
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
			(°)
			359.33

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	
2,399.28	0.00	0.00	2,399.28	0.00	0.00	0.00	0.00	0.00	0.00	
3,222.00	90.50	359.33	2,920.13	525.38	-6.13	11.00	11.00	0.00	359.33	
7,452.57	90.50	359.33	2,883.21	4,755.50	-55.50	0.00	0.00	0.00	0.00	PBHL-Arabian 6 #6H



Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
Project: Eddy County, New Mexico (NAD 27 NME)
Site: Arabian 6 Fee
Well: #6H
Wellbore: WB1
Design: Plan #2 09-10-13

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #6H
GL @ 3372.00usft
GL @ 3372.00usft
Grid
Minimum Curvature

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
2,399.28	0.00	0.00	2,399.28	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 11.00									
2,400.00	0.08	359.33	2,400.00	0.00	0.00	0.00	11.00	11.00	0.00
2,500.00	11.08	359.33	2,499.37	9.71	-0.11	9.71	11.00	11.00	0.00
2,600.00	22.08	359.33	2,595.07	38.20	-0.45	38.20	11.00	11.00	0.00
2,700.00	33.08	359.33	2,683.57	84.42	-0.99	84.43	11.00	11.00	0.00
2,800.00	44.08	359.33	2,761.62	146.68	-1.71	146.69	11.00	11.00	0.00
2,800.46	44.13	359.33	2,761.95	147.00	-1.72	147.01	11.00	11.00	0.00
PP-Arabian 6 #6H									
2,900.00	55.08	359.33	2,826.36	222.69	-2.60	222.70	11.00	11.00	0.00
3,000.00	66.08	359.33	2,875.41	309.65	-3.61	309.67	11.00	11.00	0.00
3,100.00	77.08	359.33	2,906.96	404.38	-4.72	404.40	11.00	11.00	0.00
3,200.00	88.08	359.33	2,919.86	503.38	-5.87	503.41	11.00	11.00	0.00
3,222.00	90.50	359.33	2,920.13	525.38	-6.13	525.42	11.00	11.00	0.00
LP Start 4230.57 hold at 3222.00 MD									
3,300.00	90.50	359.33	2,919.45	603.37	-7.04	603.41	0.00	0.00	0.00
3,400.00	90.50	359.33	2,918.57	703.36	-8.21	703.40	0.00	0.00	0.00
3,500.00	90.50	359.33	2,917.70	803.35	-9.38	803.40	0.00	0.00	0.00
3,600.00	90.50	359.33	2,916.83	903.34	-10.54	903.40	0.00	0.00	0.00
3,700.00	90.50	359.33	2,915.96	1,003.33	-11.71	1,003.39	0.00	0.00	0.00
3,800.00	90.50	359.33	2,915.08	1,103.31	-12.88	1,103.39	0.00	0.00	0.00
3,900.00	90.50	359.33	2,914.21	1,203.30	-14.04	1,203.39	0.00	0.00	0.00
4,000.00	90.50	359.33	2,913.34	1,303.29	-15.21	1,303.38	0.00	0.00	0.00
4,100.00	90.50	359.33	2,912.47	1,403.28	-16.38	1,403.38	0.00	0.00	0.00
4,200.00	90.50	359.33	2,911.59	1,503.27	-17.54	1,503.37	0.00	0.00	0.00
4,300.00	90.50	359.33	2,910.72	1,603.26	-18.71	1,603.37	0.00	0.00	0.00
4,400.00	90.50	359.33	2,909.85	1,703.25	-19.88	1,703.37	0.00	0.00	0.00
4,500.00	90.50	359.33	2,908.98	1,803.24	-21.05	1,803.36	0.00	0.00	0.00
4,600.00	90.50	359.33	2,908.10	1,903.23	-22.21	1,903.36	0.00	0.00	0.00
4,700.00	90.50	359.33	2,907.23	2,003.22	-23.38	2,003.36	0.00	0.00	0.00
4,800.00	90.50	359.33	2,906.36	2,103.21	-24.55	2,103.35	0.00	0.00	0.00
4,900.00	90.50	359.33	2,905.49	2,203.20	-25.71	2,203.35	0.00	0.00	0.00
5,000.00	90.50	359.33	2,904.61	2,303.19	-26.88	2,303.34	0.00	0.00	0.00
5,100.00	90.50	359.33	2,903.74	2,403.18	-28.05	2,403.34	0.00	0.00	0.00
5,200.00	90.50	359.33	2,902.87	2,503.17	-29.21	2,503.34	0.00	0.00	0.00
5,300.00	90.50	359.33	2,901.99	2,603.16	-30.38	2,603.33	0.00	0.00	0.00
5,400.00	90.50	359.33	2,901.12	2,703.14	-31.55	2,703.33	0.00	0.00	0.00
5,500.00	90.50	359.33	2,900.25	2,803.13	-32.71	2,803.32	0.00	0.00	0.00
5,600.00	90.50	359.33	2,899.38	2,903.12	-33.88	2,903.32	0.00	0.00	0.00
5,700.00	90.50	359.33	2,898.50	3,003.11	-35.05	3,003.32	0.00	0.00	0.00
5,800.00	90.50	359.33	2,897.63	3,103.10	-36.22	3,103.31	0.00	0.00	0.00
5,900.00	90.50	359.33	2,896.76	3,203.09	-37.38	3,203.31	0.00	0.00	0.00
6,000.00	90.50	359.33	2,895.89	3,303.08	-38.55	3,303.31	0.00	0.00	0.00
6,100.00	90.50	359.33	2,895.01	3,403.07	-39.72	3,403.30	0.00	0.00	0.00
6,200.00	90.50	359.33	2,894.14	3,503.06	-40.88	3,503.30	0.00	0.00	0.00
6,300.00	90.50	359.33	2,893.27	3,603.05	-42.05	3,603.29	0.00	0.00	0.00
6,400.00	90.50	359.33	2,892.40	3,703.04	-43.22	3,703.29	0.00	0.00	0.00
6,500.00	90.50	359.33	2,891.52	3,803.03	-44.38	3,803.29	0.00	0.00	0.00
6,600.00	90.50	359.33	2,890.65	3,903.02	-45.55	3,903.28	0.00	0.00	0.00
6,700.00	90.50	359.33	2,889.78	4,003.01	-46.72	4,003.28	0.00	0.00	0.00
6,800.00	90.50	359.33	2,888.90	4,103.00	-47.88	4,103.28	0.00	0.00	0.00
6,900.00	90.50	359.33	2,888.03	4,202.99	-49.05	4,203.27	0.00	0.00	0.00



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #6H
Company:	COG Operating LLC	TVD Reference:	GL @ 3372.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3372.00usft
Site:	Arabian 6 Fee	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 09-10-13		

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)
7,000.00	90.50	359.33	2,887.16	4,302.97	-50.22	4,303.27	0.00	0.00	0.00
7,100.00	90.50	359.33	2,886.29	4,402.96	-51.39	4,403.26	0.00	0.00	0.00
7,200.00	90.50	359.33	2,885.41	4,502.95	-52.55	4,503.26	0.00	0.00	0.00
7,300.00	90.50	359.33	2,884.54	4,602.94	-53.72	4,603.26	0.00	0.00	0.00
7,400.00	90.50	359.33	2,883.67	4,702.93	-54.89	4,703.25	0.00	0.00	0.00
7,452.57	90.50	359.33	2,883.21	4,755.50	-55.50	4,755.82	0.00	0.00	0.00
TD at 7452.57 - PBHL-Arabian 6 #6H									

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-Arabian 6 #6H - plan hits target center - Point	0.00	360.00	2,761.95	147.00	-1.72	612,270.90	472,782.08	32° 40' 59.52324 N	104° 25' 18.46834 W
PBHL-Arabian 6 #6H - plan hits target center - Point	0.00	360.00	2,883.21	4,755.50	-55.50	616,879.40	472,728.30	32° 41' 45.12681 N	104° 25' 19.14271 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,399.28	2,399.28	0.00	0.00	KOP Start Build 11.00
3,222.00	2,920.13	525.38	-6.13	LP Start 4230.57 hold at 3222.00 MD
7,452.57	2,883.21	4,755.50	-55.50	TD at 7452.57



Project: Eddy County, New Mexico (NAD 27 NME)
Site: Arabian 6 Fee
Well: #6H
Wellbore: WB1
Design: Plan #2 09-10-13



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.05°
Magnetic North: 7.78°
Magnetic Field
Strength: 48574.5 nT
Dip Angle: 60.41°
Date: 09/10/2013
Model: IGRF2010_14

WELL DETAILS

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	612123.90	472783.80	32° 40' 58.06859 N	104° 25' 18.44683 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeal	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		KOP Start Build 11.00
2	2399.28	0.00	0.00	2399.28	0.00	0.00	0.00	0.00	0.00		LP Start 4230.57 hold at 3222.00 MD
3	3222.00	90.50	359.33	2920.13	525.38	-4.13	11.00	359.33	525.42		TD at 7452.57
4	7452.57	90.50	359.33	2883.21	4755.50	-55.50	0.00	0.00	4755.82		PBHL-Arabian 6 #6H

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PP-Arabian 6 #6H	2761.95	147.00	-1.72	612270.90	472782.08	32° 40' 59.52324 N	104° 25' 18.46833 W	Point
PBHL-Arabian 6 #6H	2883.21	4755.50	-55.50	616879.40	472728.30	32° 41' 45.12681 N	104° 25' 19.14271 W	Point

- plan hits target center
- plan hits target center

PROJECT DETAILS: Eddy County, New Mexico (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

SITE DETAILS: Arabian 6 Fee

Site Centre Northing: 612084.20
Easting: 472131.70

Positional Uncertainty: 0.00
Convergence: -0.05
Local North: Grid

LEGEND

— #2H, WB1, Plan #2 09-10-13 V0
— Plan #2 09-10-13

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #6H, Grid North
Latitude: 32° 40' 58.06859 N
Longitude: 104° 25' 18.44683 W

Grid East: 472783.80
Grid North: 612123.90
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 10-Sep-13
Magnetic Declination: 7.74°
Dip Angle from Horizontal: 60.41°
Magnetic Field Strength: 48575

To convert a Magnetic Direction to a Grid Direction, Add 7.78°
To convert a Magnetic Direction to a True Direction, Add 7.74° East
To convert a True Direction to a Grid Direction, Add 0.05°

FORMATION TOP DETAILS

No formation data is available

