

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

Form C-103
Revised August 1, 2011

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

WELL API NO. 30-015-39974
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Paint 32 Fee
8. Well Number 3H
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 M : 1040 feet from the SOUTH line and 190 feet from the WEST line Section 32 Township 18S Range 26E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3393'	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **Change BHL**



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:

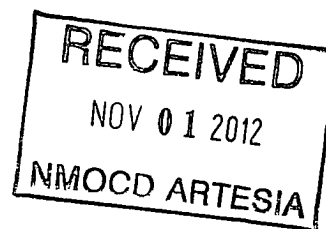
SHL: 1040 FSL 190 FWL, Unit M

BHL: 1040 FSL 330 FEL, Unit P

COG Operating LLC respectfully requests permission to change the BHL to:

SHL: 1040 FSL 190 FWL, Unit M

BHL: 990 FSL 330 FEL, Unit P



Revision is due to avoiding a non-standard location.

A revised Directional Plan and C102 is 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 TITLE **Permitting Tech** DATE **10-31-12**

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

For State Use Only

APPROVED BY: TITLE **Geologist** DATE **11/1/2012**

Conditions of Approval (if any):

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

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 30-015-39974	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (assoc)
Property Code 38919	Property Name PAINT 32 FEE	Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3393'

Surface Location

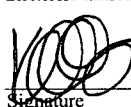
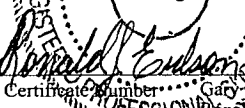
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	18-S	26-E		1040	SOUTH	190	WEST	EDDY

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
P	32	18-S	26-E		990	SOUTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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=618538.3 N, X=475686.4 E B - Y=618565.9 N, X=480971.3 E C - Y=617200.0 N, X=475694.4 E D - Y=617232.9 N, X=480973.6 E Estimated Completed Interval: 990 FSL 532 FWL GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=618241.0 N X=475878.1 E BOTTOM HOLE LOCATION Y=618220.6 N X=480642.0 E GRID. AZ.=90°14'39" HORIZ. DIST.=4765.2' Project Area Producing Area	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.  Signature 10-31-12 Date <u>Kelly J. Holly</u> Printed Name <u>kholly@concho.com</u> 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. JANUARY 18, 2012 Date of Survey Signature:  Seal of Professional Surveyor: RONALD J. EIDSON NEW MEXICO 3239 Certificate Number: Gary G. Eidson 12641 Ronald J. Eidson 3239 BKL REL W.O. 1111 2570 JWSC W.O. 12 13.1687
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COG Operating LLC

Eddy County, NM (NAN27 NME)

Paint 32 Fee #3H

OH

Plan #2 8-3/4" Hole

Surface: 1040' FSL, 190' FWL, Sec 32, T18S, R26E, Unit M

PP: 990' FSL, 532' FWL, Sec 32, T18S, R26E, Unit M

BHL: 990' FSL, 330' FEL, Sec 32, T18S, R26E, Unit P

Standard Planning Report

26 October, 2012





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	
2,272 50	0 00	0 00	2,272 50	0 00	0 00	0 00	0 00	0 00	0 00	
3,022 56	90 00	95 00	2,750 00	-41 62	475 68	12 00	12 00	0 00	95 00	
3,202 56	90 00	89 60	2,750 00	-48 84	655 47	3 00	0 00	-3 00	-90 00	
7,311 41	90 00	89 60	2,750 00	-20 15	4,764 22	0 00	0 00	0 00	0 00	PBHL



Scientific Drilling
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL @ 3393 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3393 00usft
Site:	Paint 32 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 8-3/4" Hole		

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
2,272 50	0 00	0 00	2,272 50	0 00	0 00	0 00	0 00	0 00	0 00
KOP Start Build 12.00									
2,300 00	3 30	95 00	2,299 98	-0 07	0 79	0 79	12 00	12 00	0 00
2,400 00	15 30	95 00	2,398 49	-1 47	16 86	16 86	12 00	12 00	0 00
2,500 00	27 30	95 00	2,491 49	-4 63	52 98	52 99	12 00	12 00	0 00
2,600 00	39 30	95 00	2,574 92	-9 41	107 57	107 60	12 00	12 00	0 00
2,700 00	51 30	95 00	2,645 14	-15 59	178 24	178 31	12 00	12 00	0 00
2,800 00	63 30	95 00	2,699 07	-22 91	261 91	262 01	12 00	12 00	0 00
2,886 56	73 68	95 00	2,730 76	-29 92	342 03	342 15	12 00	12 00	0 00
PP									
2,900 00	75 29	95 00	2,734 36	-31 05	354 93	355 06	12 00	12 00	0 00
3,000 00	87 29	95 00	2,749 47	-39 65	453 22	453 39	12 00	12 00	0 00
3,022 56	90 00	95 00	2,750 00	-41 62	475 68	475 85	12 00	12 00	0 00
EOC Start DLS 3.00 TFO -90.00									
3,100 00	90 00	92 68	2,750 00	-46 80	552 95	553 14	3 00	0 00	-3 00
3,200 00	90 00	89 68	2,750 00	-48 85	652 92	653 12	3 00	0 00	-3 00
3,202 56	90 00	89 60	2,750 00	-48 84	655 47	655 67	3 00	0 00	-3 00
Start 4108.85 hold at 3202.56 MD									
3,300 00	90 00	89 60	2,750 00	-48 16	752 91	753 11	0 00	0 00	0 00
3,400 00	90 00	89 60	2,750 00	-47 46	852 91	853 10	0 00	0 00	0 00
3,500 00	90 00	89 60	2,750 00	-46 76	952 91	953 10	0 00	0 00	0 00
3,600 00	90 00	89 60	2,750 00	-46 06	1,052 91	1,053 09	0 00	0 00	0 00
3,700 00	90 00	89 60	2,750 00	-45 36	1,152 90	1,153 09	0 00	0 00	0 00
3,800 00	90 00	89 60	2,750 00	-44 67	1,252 90	1,253 08	0 00	0 00	0 00
3,900 00	90 00	89 60	2,750 00	-43 97	1,352 90	1,353 07	0 00	0 00	0 00
4,000 00	90 00	89 60	2,750 00	-43 27	1,452 90	1,453 07	0 00	0 00	0 00
4,100 00	90 00	89 60	2,750 00	-42 57	1,552 89	1,553 06	0 00	0 00	0 00
4,200 00	90 00	89 60	2,750 00	-41 87	1,652 89	1,653 05	0 00	0 00	0 00
4,300 00	90 00	89 60	2,750 00	-41 18	1,752 89	1,753 05	0 00	0 00	0 00
4,400 00	90 00	89 60	2,750 00	-40 48	1,852 89	1,853 04	0 00	0 00	0 00
4,500 00	90 00	89 60	2,750 00	-39 78	1,952 88	1,953 04	0 00	0 00	0 00
4,600 00	90 00	89 60	2,750 00	-39 08	2,052 88	2,053 03	0 00	0 00	0 00
4,700 00	90 00	89 60	2,750 00	-38 38	2,152 88	2,153 02	0 00	0 00	0 00
4,800 00	90 00	89 60	2,750 00	-37 68	2,252 88	2,253 02	0 00	0 00	0 00
4,900 00	90 00	89 60	2,750 00	-36 99	2,352 87	2,353 01	0 00	0 00	0 00
5,000 00	90 00	89 60	2,750 00	-36 29	2,452 87	2,453 00	0 00	0 00	0 00
5,100 00	90 00	89 60	2,750 00	-35 59	2,552 87	2,553 00	0 00	0 00	0 00
5,200 00	90 00	89 60	2,750 00	-34 89	2,652 87	2,652 99	0 00	0 00	0 00
5,300 00	90 00	89 60	2,750 00	-34 19	2,752 87	2,752 99	0 00	0 00	0 00
5,400 00	90 00	89 60	2,750 00	-33 50	2,852 86	2,852 98	0 00	0 00	0 00
5,500 00	90 00	89 60	2,750 00	-32 80	2,952 86	2,952 97	0 00	0 00	0 00
5,600 00	90 00	89 60	2,750 00	-32 10	3,052 86	3,052 97	0 00	0 00	0 00
5,700 00	90 00	89 60	2,750 00	-31 40	3,152 86	3,152 96	0 00	0 00	0 00
5,800 00	90 00	89 60	2,750 00	-30 70	3,252 85	3,252 95	0 00	0 00	0 00
5,900 00	90 00	89 60	2,750 00	-30 00	3,352 85	3,352 95	0 00	0 00	0 00
6,000 00	90 00	89 60	2,750 00	-29 31	3,452 85	3,452 94	0 00	0 00	0 00
6,100 00	90 00	89 60	2,750 00	-28 61	3,552 85	3,552 93	0 00	0 00	0 00
6,200 00	90 00	89 60	2,750 00	-27 91	3,652 84	3,652 93	0 00	0 00	0 00
6,300 00	90 00	89 60	2,750 00	-27 21	3,752 84	3,752 92	0 00	0 00	0 00
6,400 00	90 00	89 60	2,750 00	-26 51	3,852 84	3,852 92	0 00	0 00	0 00
6,500 00	90 00	89 60	2,750 00	-25 82	3,952 84	3,952 91	0 00	0 00	0 00
6,600 00	90 00	89 60	2,750 00	-25 12	4,052 83	4,052 90	0 00	0 00	0 00
6,700 00	90 00	89 60	2,750 00	-24 42	4,152 83	4,152 90	0 00	0 00	0 00



Scientific Drilling

Planning Report



Database: EDM 5000 1 Single User Db
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Paint 32 Fee
Well: #3H
Wellbore: OH
Design: Plan #2 8-3/4" Hole

Local Co-ordinate Reference: Well #3H
TVD Reference: GL @ 3393 00usft
MD Reference: GL @ 3393 00usft
North Reference: Gnd
Survey Calculation Method: 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)
6,800.00	90.00	89.60	2,750.00	-23.72	4,252.83	4,252.89	0.00	0.00	0.00
6,900.00	90.00	89.60	2,750.00	-23.02	4,352.83	4,352.88	0.00	0.00	0.00
7,000.00	90.00	89.60	2,750.00	-22.32	4,452.82	4,452.88	0.00	0.00	0.00
7,100.00	90.00	89.60	2,750.00	-21.63	4,552.82	4,552.87	0.00	0.00	0.00
7,200.00	90.00	89.60	2,750.00	-20.93	4,652.82	4,652.87	0.00	0.00	0.00
7,300.00	90.00	89.60	2,750.00	-20.23	4,752.82	4,752.86	0.00	0.00	0.00
7,311.41	90.00	89.60	2,750.00	-20.15	4,764.22	4,764.27	0.00	0.00	0.00
PBHL									

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	0.00	0.00	2,730.76	-29.92	342.00	618,211.09	476,220.07	32° 41' 58.332 N	104° 24' 38.292 W
- plan hits target center									
- Point									
PBHL	0.00	0.00	2,750.00	-20.15	4,764.22	618,220.86	480,641.90	32° 41' 58.457 N	104° 23' 46.544 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,272.50	2,272.50	0.00	0.00	KOP Start Build 12.00
3,022.56	2,750.00	-41.62	475.68	EOC Start DLS 3.00 TFO -90.00
3,202.56	2,750.00	-48.84	655.47	Start 4108.85 hold at 3202.56 MD



Paint 32 Fee #3H

Eddy County, NM (NAN27 NME)

Northing: (Y) 618241.00

Easting: (X) 475878.10

Plan #2 8-3/4" Hole



Asimuth to Grid North
True North 0.04°
Magnetic North 7.95°
Magnetic Field
Strength 48740.0nT
Dip Angle 50.45°
Date 2/20/2012
Model 10R2010

To convert a Magnetic Direction to a Grid Direction, Add 7.97°
To convert a True Direction to a Grid Direction, Add 0.04°

WELL DETAILS:

Ground Level 3393.00
Northing 618241.00
Easting 475878.10
Latitude 32° 41' 59.825 N
Longitude 104° 24' 42.284 W

SECTION DETAILS

MD	Inc	Asi	TVD	+N/S	+E/W	Digs	Tsec	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2272.50	0.00	0.00	2272.50	-41.82	475.88	12.00	85.00	475.88	
3202.50	90.00	95.00	2750.00	-48.84	655.47	3.00	-80.00	655.87	
7311.41	90.00	89.60	2750.00	-20.15	4764.22	0.00	0.00	4764.27	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting
PP	2730.76	-28.92	342.00	618231.08	476220.07
PBHL	2750.00	-20.15	4764.22	618220.85	480641.89

SITE DETAILS: Paint 32 Fee
Site Centre Northing 618241.00
Easting 475878.10

Positional Uncertainty 0.00
Convergence -0.04
Local North Grid

PROJECT DETAILS: Eddy County, NM (NAN27 NME)
Datum NAD 1927 (NADCON CONUS)
Geoid Ellipsoid Clarke 1866
Zone New Mexico East 3001

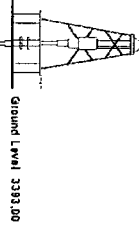
System Datum Mean Sea Level

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Wall City, Grid North

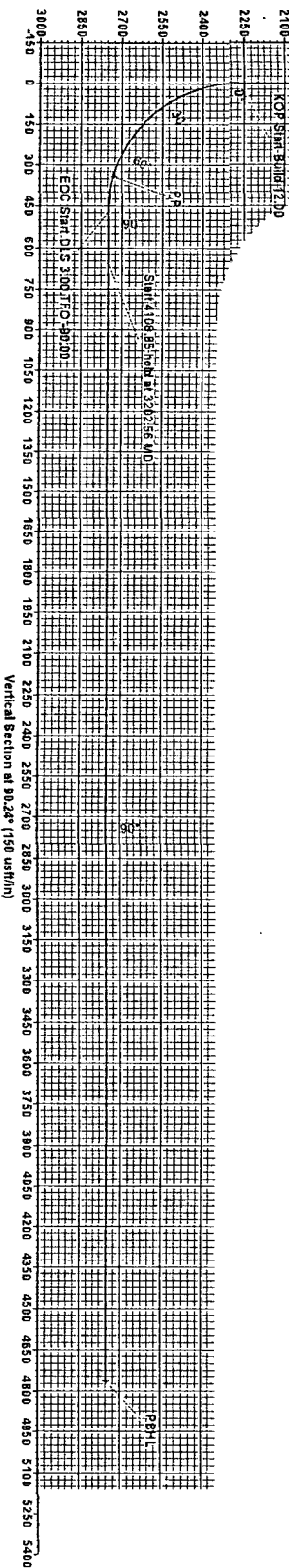
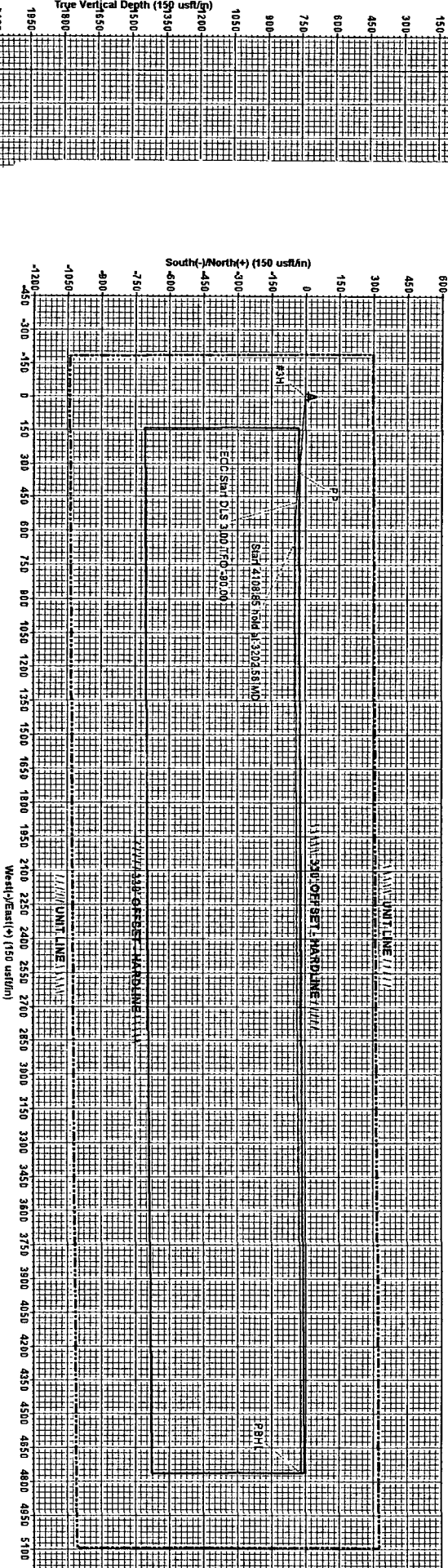
Latitude 32° 41' 59.825 N
Longitude 104° 24' 42.284 W
Grid East 475878.10
Grid North 618241.00
Scale Factor 1.000

Geomagnetic Model 10R2010
Sample Date 20-Feb-12
Magnetic Declination 7.97°
Dip Angle from Horizontal 50.45°
Magnetic Field Strength 48740

To convert a Magnetic Direction to a Grid Direction, Add 7.97°
To convert a True Direction to a Grid Direction, Add 0.04°



Ground Level 3393.00



Vertical Section at 90.24° (150 usf/in)