

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD
JUL 10 2012
RECEIVED

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☒ AMENDED REPORT

API Number 30-025-40069	Pool Code 97838	Pool Name WC-025 5263208P; Bone Spring Upper Shale
Property Code 38515	Property Name SOL "28" FEDERAL	Well Number 1H
OGRID No. 217955	Operator Name COG PRODUCTION LLC	Elevation 3373'

Surface Location

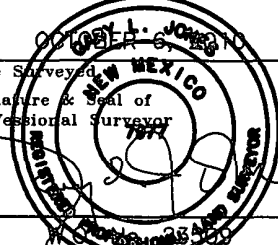
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	25 S	32 E		440	SOUTH	440	EAST	LEA

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
M	28	25 S	32 E		380	SOUTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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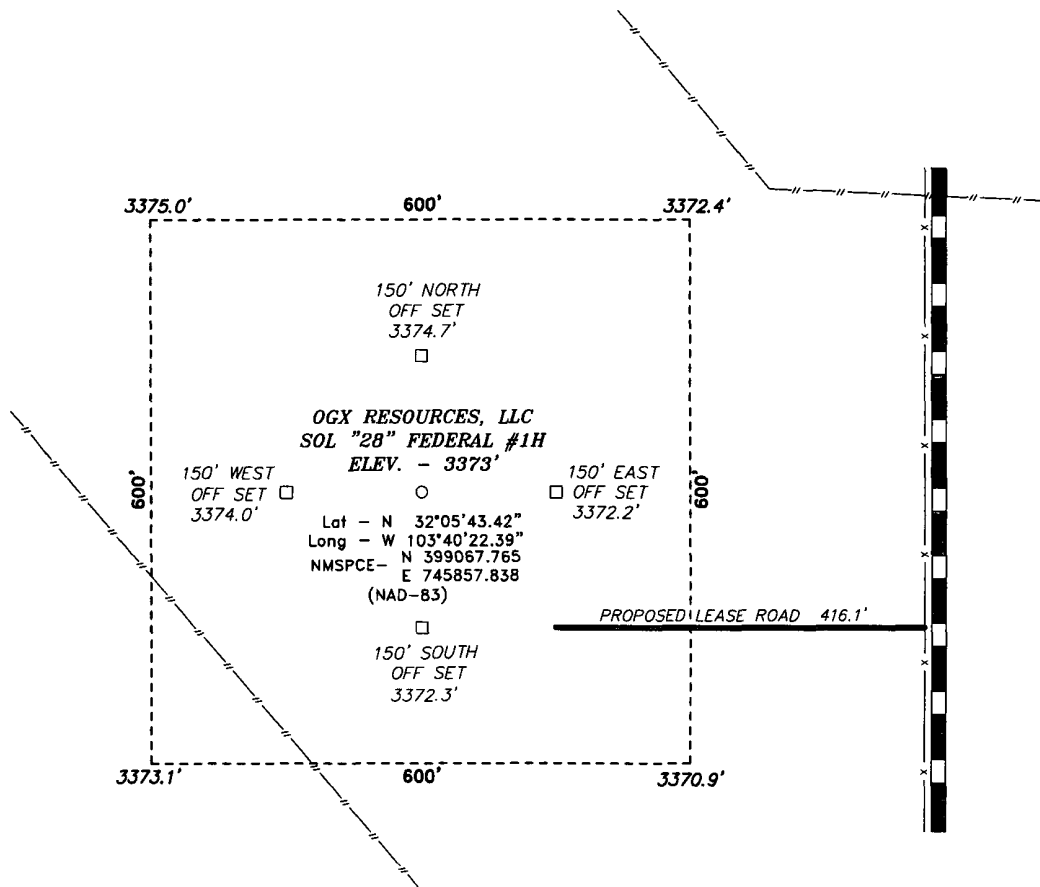
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°05'42.65" Long - W 103°41'15.23" NMSPCE- N 398962.47 E 741313.40 (NAD-83) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°05'42.20" Long - W 103°41'13.52" NMSPCE- N 398904.73 E 700127.26 (NAD-27)		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. <u>Melanie J. Barker</u> 3/8 Signature Date <u>Melanie J. Barker</u> Printed Name
SURFACE LOCATION Lat - N 32°05'43.42" Long - W 103°40'22.39" NMSPCE- N 399067.765 E 745857.838 (NAD-83) SURFACE LOCATION Lat - N 32°05'42.97" Long - W 103°40'20.69" NMSPCE- N 399010.043 E 704671.657 (NAD-27)		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 Surveyed _____ Signature & Seal of Professional Surveyor _____ Certificate No. Gary L. Jones 7977 BASIN SURVEYS

Amended

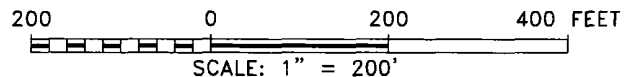
JUL 14 2012

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location.

FROM THE JUNCTION OF HWY 128 AND ORLA, GO SOUTH ON ORLA FOR 8.0 MILES TO PROPOSED LEASE ROAD.



COG PRODUCTION LLC

REF: SOL "28" FEDERAL #1H / WELL PAD TOPO

THE SOL "28" FEDERAL #1H LOCATED 440'
FROM THE SOUTH LINE AND 440' FROM THE EAST LINE OF
SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

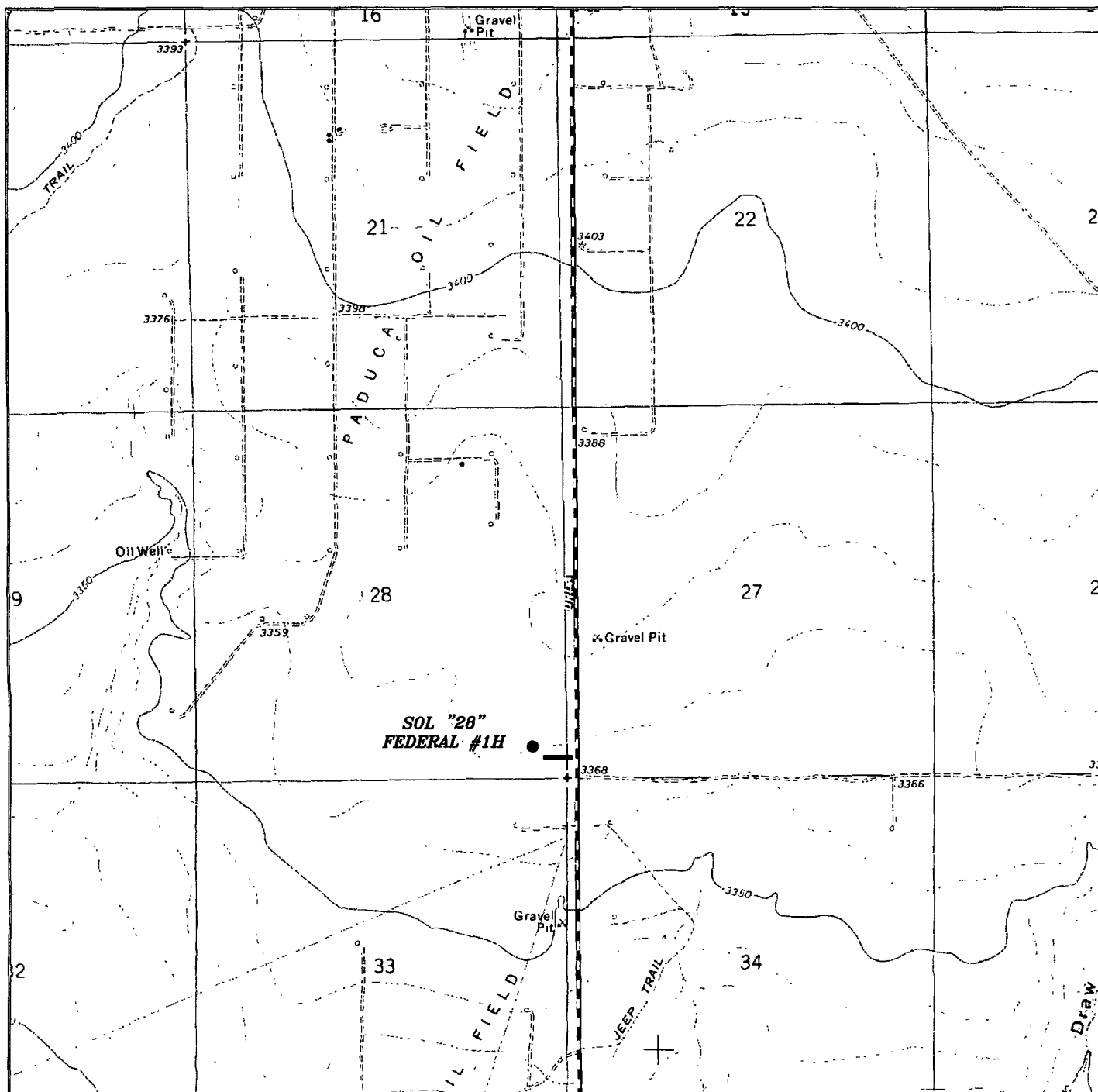
BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 23509 Drawn By: J. SMALL

Date: 10-12-2010 Disk: JMS 23509

Survey Date 10-06-2010

Sheet 1 of 1 Sheets



SOL "28" FEDERAL #1H

Located 440' FSL and 440' FEL

Section 28, Township 25 South, Range 32 East,
N.M.P.M., Lea County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

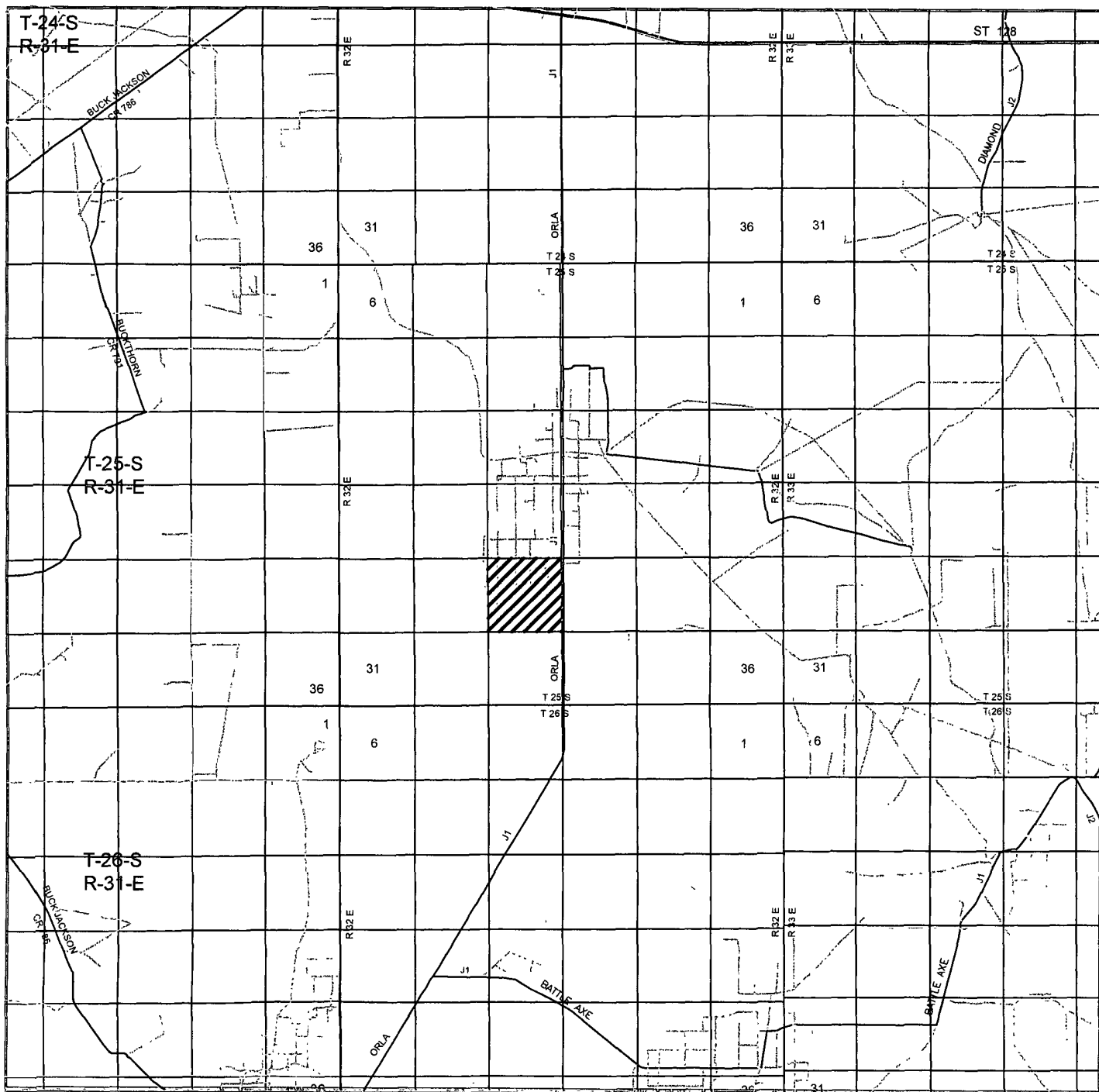
W.O. Number: JMS 23509

Survey Date: 10-06-2010

Scale: 1" = 2000'

Date: 10-12-2010

**COG
PRODUCTION
LLC**



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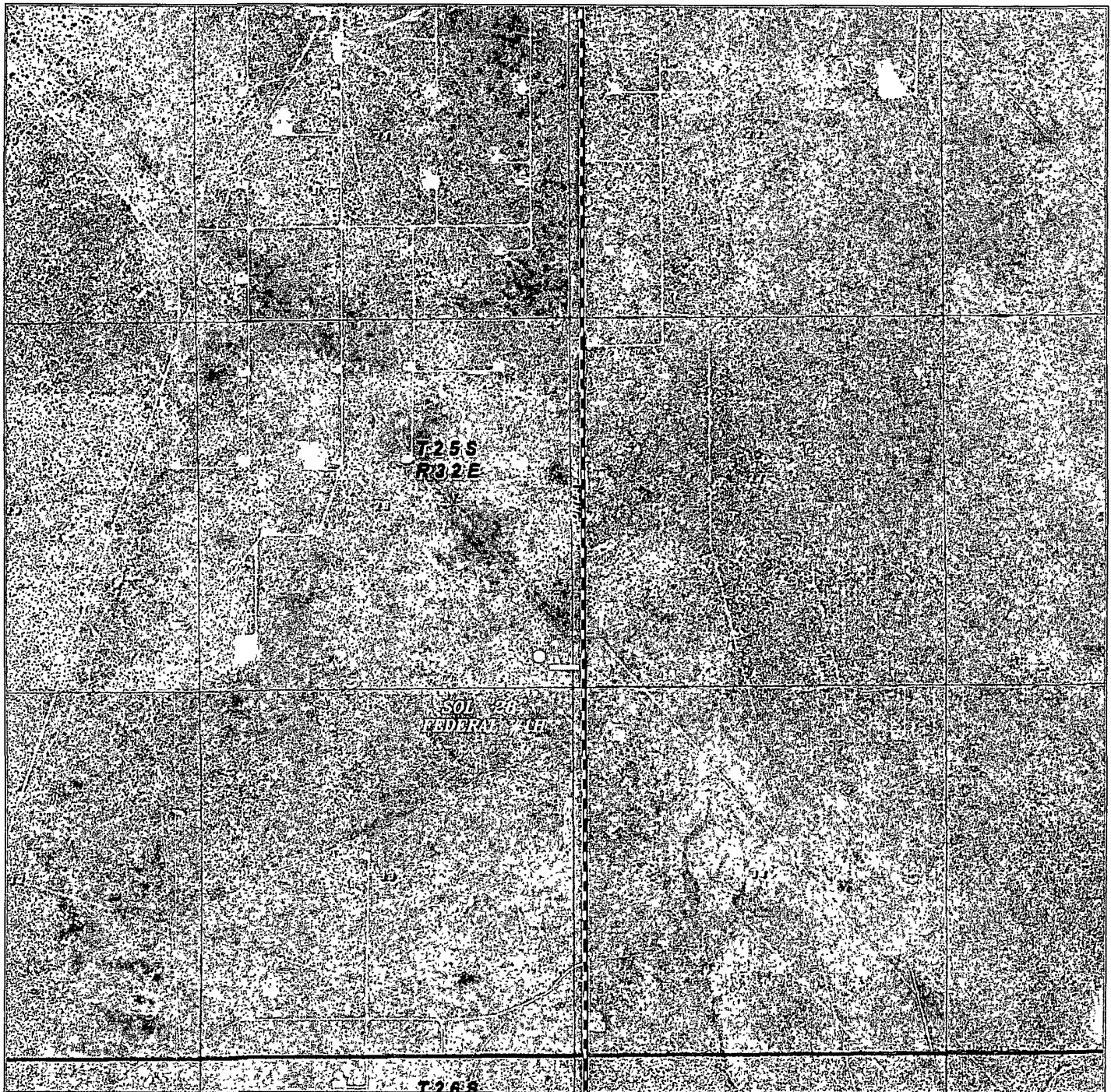
W.O. Number: JMS 23509

Survey Date: 10-06-2010

Scale: 1" = 2 Miles

Date: 10-12-2010

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YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND

COG
PRODUCTION
LLC



Project: Lea County(NAD27)
Site: SOL 28 Federal
Well: 1H
Wellbore: OH
Plan: Plan #1 (1H/OH)



Azimuths to Grid North
True North: -0.35°
Magnetic North: 7.18°

Magnetic Field
Strength: 48496.4snT
Dip Angle: 60.06°
Date: 3/1/2012
Model: IGRF200510



A Schlumberger Company

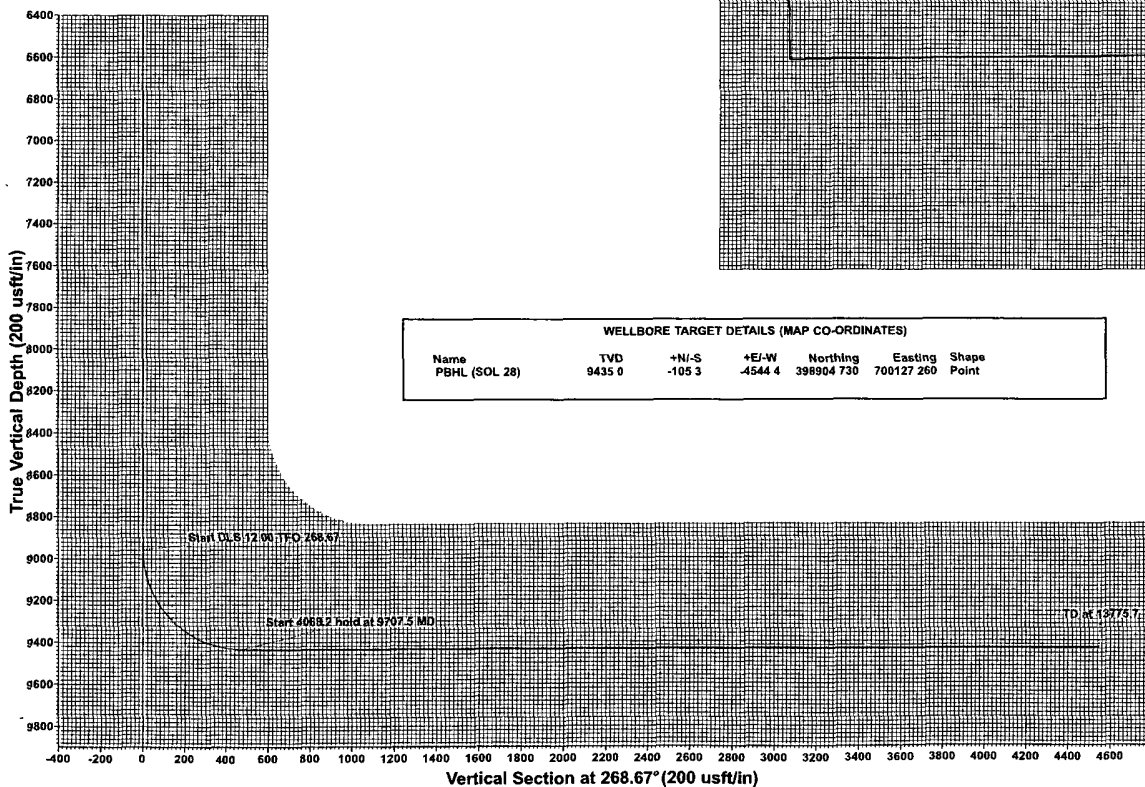
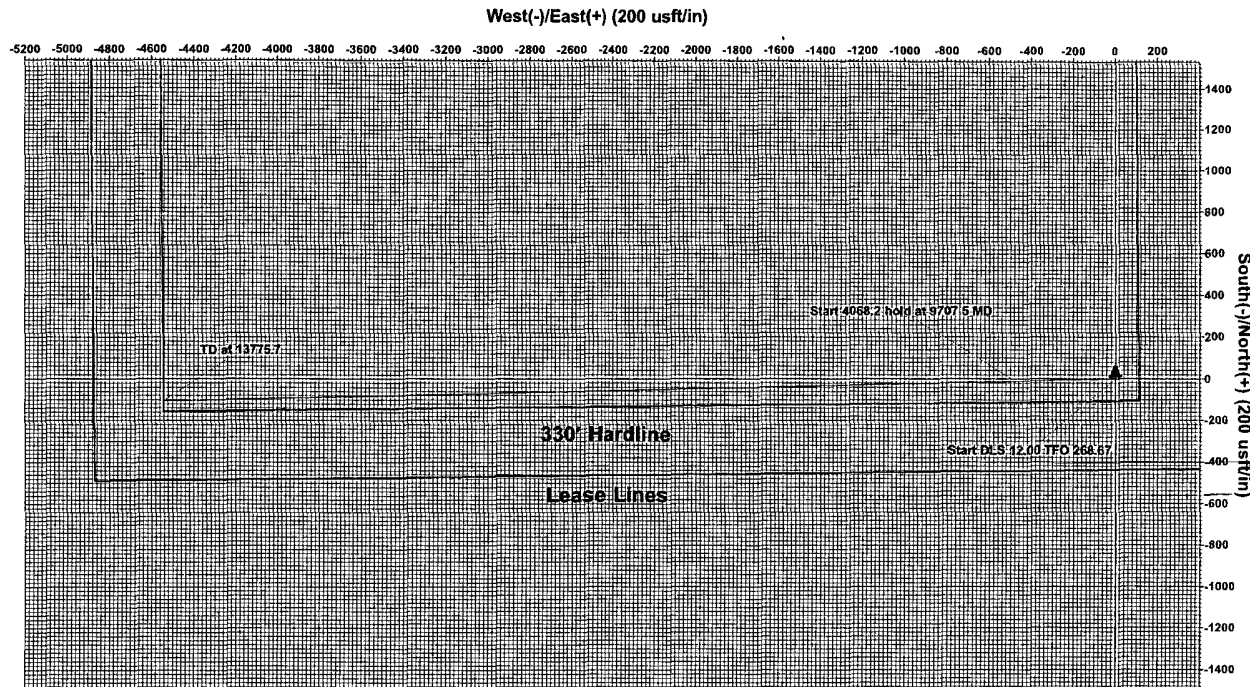
WELL DETAILS: 1H

Ground Elevation: 3373.0
RKB Elevation: KB = 20.6 @ 3393.6usft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	399010.043	704671.657	32° 5' 42.973 N	103° 40' 2 0.687 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8957.5	0.00	0.00	8957.5	0.0	0.0	0.00	0.00	0.0	
3	9707.5	90.00	268.67	9435.0	-11.1	-477.3	12.00	268.67	477.5	
4	13775.7	90.00	268.67	9435.0	-105.3	-4544.4	0.00	0.00	4545.6	PBHL (SOL 28)



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (SOL 28)	9435.0	-105.3	-4544.4	398904.730	700127.260	Point

PROJECT DETAILS: Lea County(NAD27)
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
Local North: Grid

Plan Plan #1 (1H/OH)

Created By: Michael Trout Date: 15 08, March 06 2012

Checked: _____ Date: _____

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Lea County(NAD27)
SOL 28 Federal
1H
Original Well Elev
OH
Plan #1