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., Sante 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.
Sante Fe, NM 87505

HOBBS OCD
JUL 28 2014
RECEIVED

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-41990	97900	Red Hills; Upper Bone Spring Shale

[4]Property Code	[5]Property Name	[6]Well Number
313517	DIAMOND 5 FED COM	#6H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3377'

[10]Surface Location

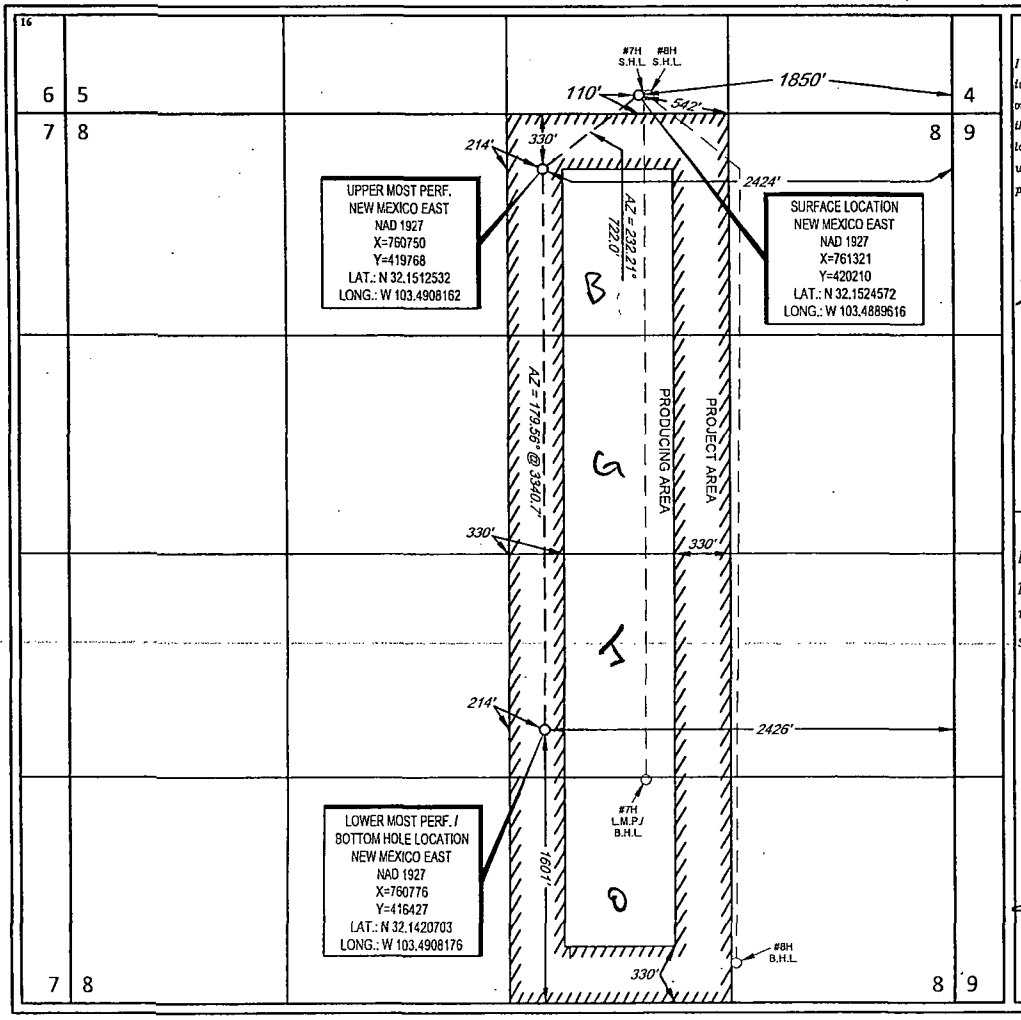
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	5	25-S	34-E	-	110'	SOUTH	1850'	EAST	LEA

[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
J	8	25-S	34-E	-	1601'	SOUTH	2426'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
120			NSL-6866

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.



[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: 10/28/13

Stan Wagner
Printed Name

E-mail Address

[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 to the best of my belief.

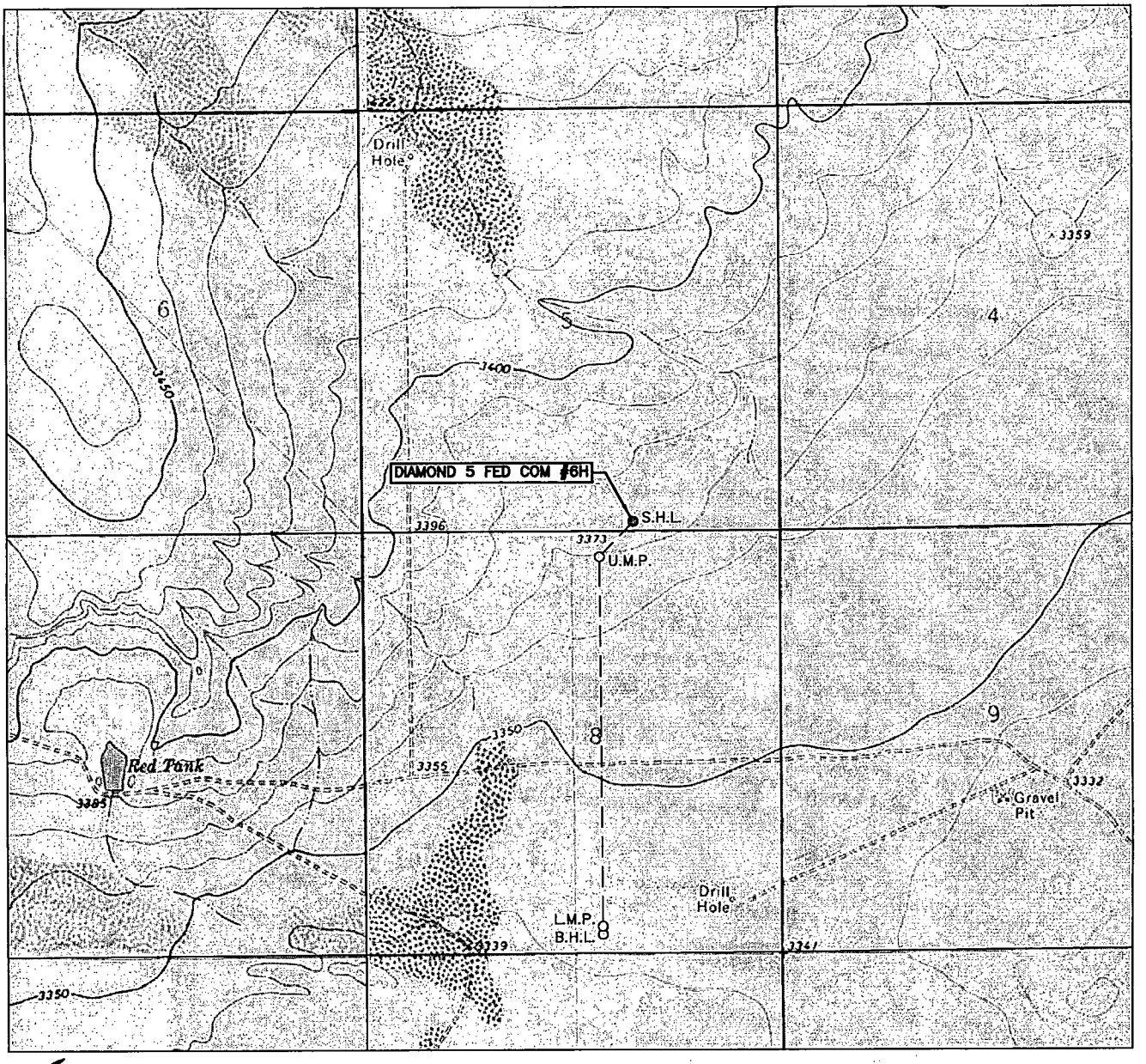
5/15/2013
Date of Survey
Signature and Seal of Professional Surveyor:

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

JUL 29 2014

LOCATION & ELEVATION VERIFICATION MAP



eog resources, inc.

LEASE NAME & WELL NO.: DIAMOND 5 FED COM #6H

SECTION 5 **TWP** 25-S **RGE** 34-E **SURVEY** N.M.P.M.
COUNTY LEA **STATE** NM **ELEVATION** 3377'
DESCRIPTION 110' FSL & 1850' FEL

LATITUDE N 32.1524572 **LONGITUDE** W 103.4889616

-N-

SCALE: 1" = 2000'

0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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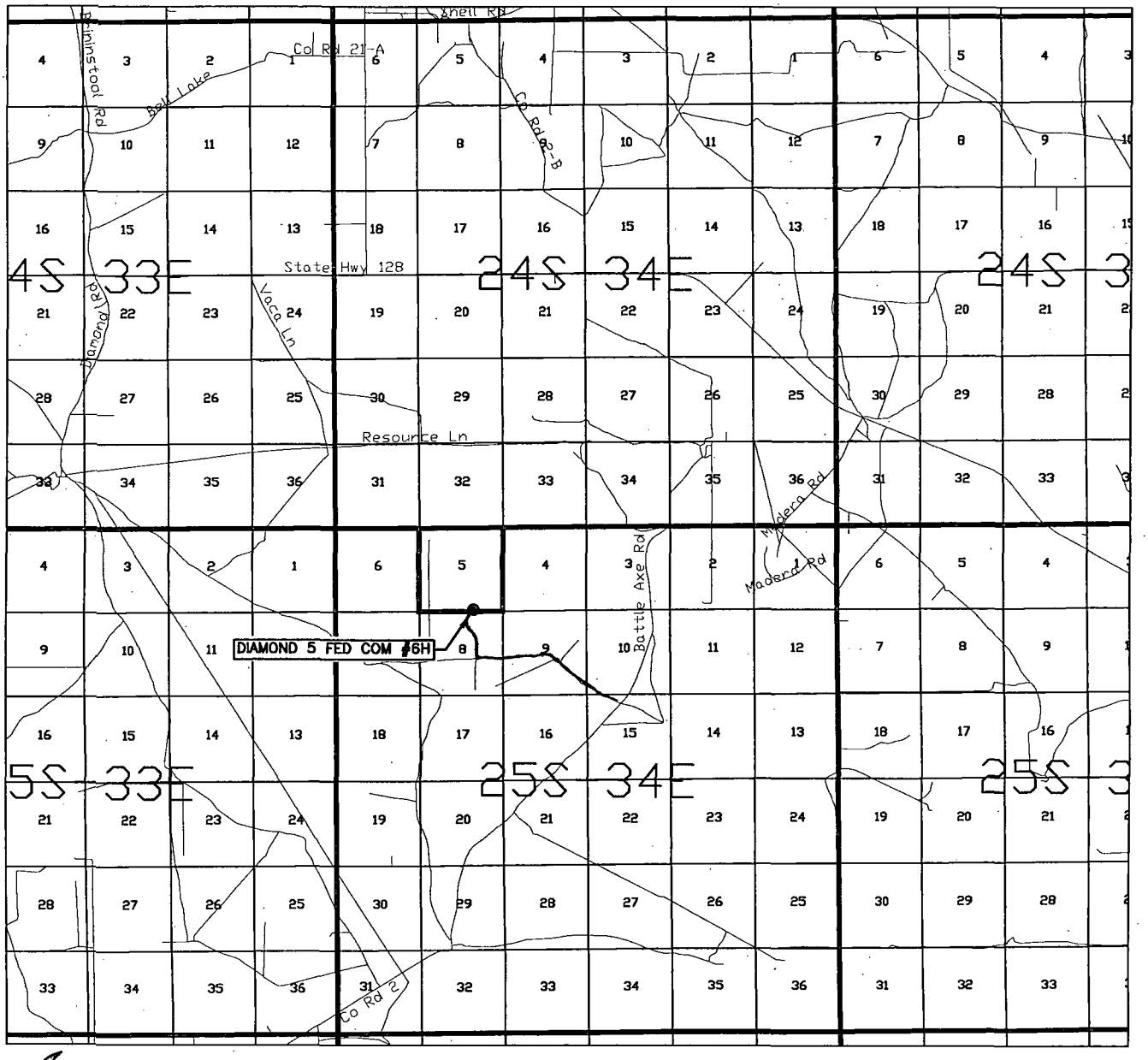
TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS

2903 NORTH BIG SPRING * MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 * FAX (432) 682-1743
1400 EVERMAN PARKWAY, Ste. 197 * FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 * FAX (817) 744-7548
2225 PERRYTON PARKWAY * PAMPA, TEXAS 79065
TELEPHONE: (806) 665-7218 * FAX (806) 665-7210
WWW.TOPOGRAPHIC.COM

EXHIBIT 2

VICINITY MAP



eog resources, inc.

LEASE NAME & WELL NO.: DIAMOND 5 FED COM #6H

SECTION 5 **TWP** 25-S **RGE** 34-E **SURVEY** N.M.P.M.
COUNTY LEA **STATE** NM
DESCRIPTION 110' FSL & 1850' FEL

DISTANCE & DIRECTION FROM INT. OF NM-18 N & NM-128, GO WEST ON NM-128 W ±14.1 MILES, THENCE SOUTHWEST (LEFT) ON CR. 2/BATTLE AXE RD. ±5.7 MILES, THENCE NORTHWEST (RIGHT) ON LEASE RD. ±2.0 MILES, THENCE NORTH (RIGHT) ON LEASE RD. ±0.3 MILES TO A POINT ±969 FEET SOUTH OF THE LOCATION.

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-N-

SCALE: 1" = 10000'

0' 10000' 20000'

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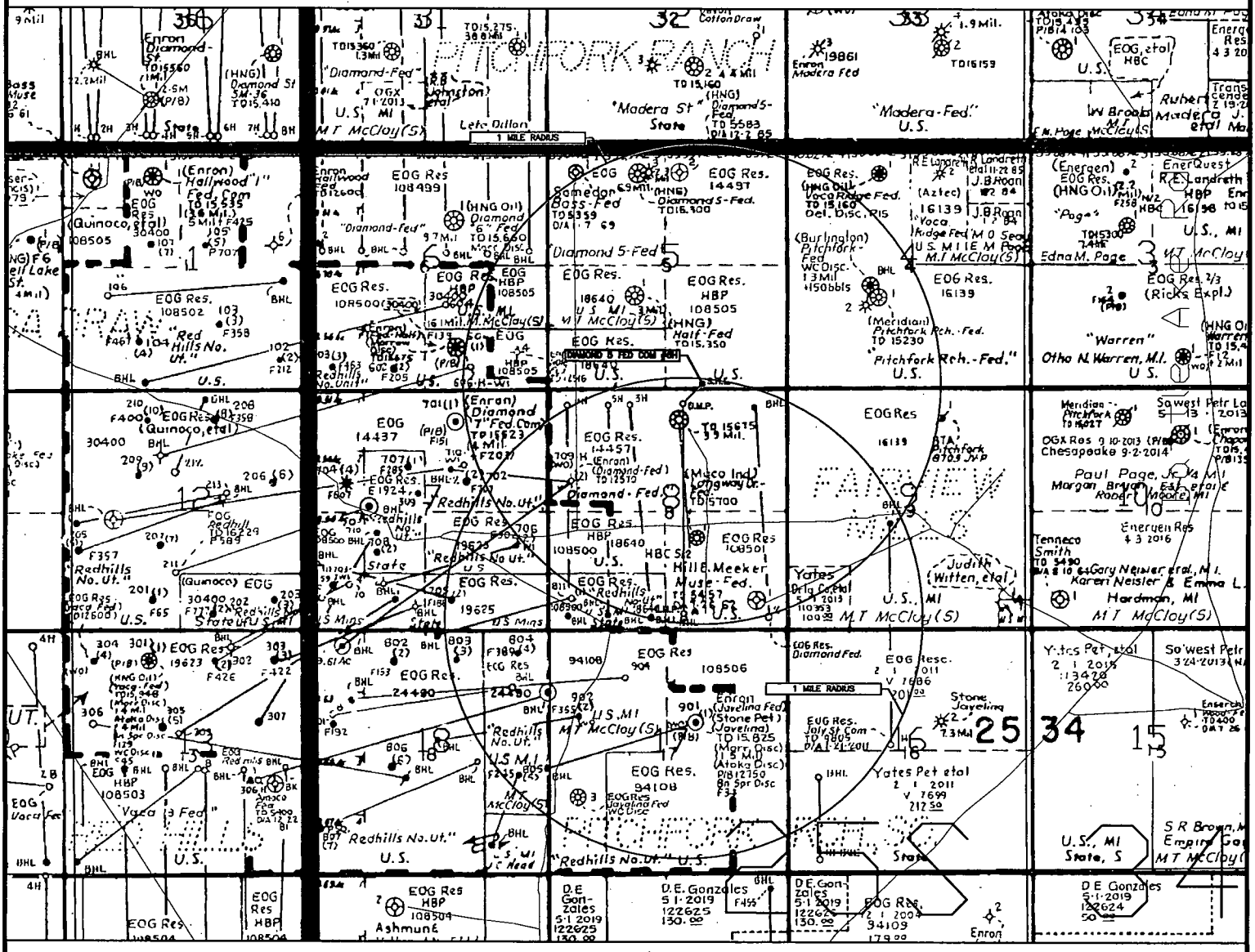
EXHIBIT 3

eog resources, inc.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: DIAMOND 5 FED COM #6H

#1 LATITUDE N 32.1524572 **#1 LONGITUDE** W 103.4889616

LEGEND

- ROAD WAY
- SECTION LINE
- EXISTING PIPELINE
- FENCE LINE

N

SCALE: NTS

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ORIGINAL DOCUMENT SIZE: 8.5" X 14"

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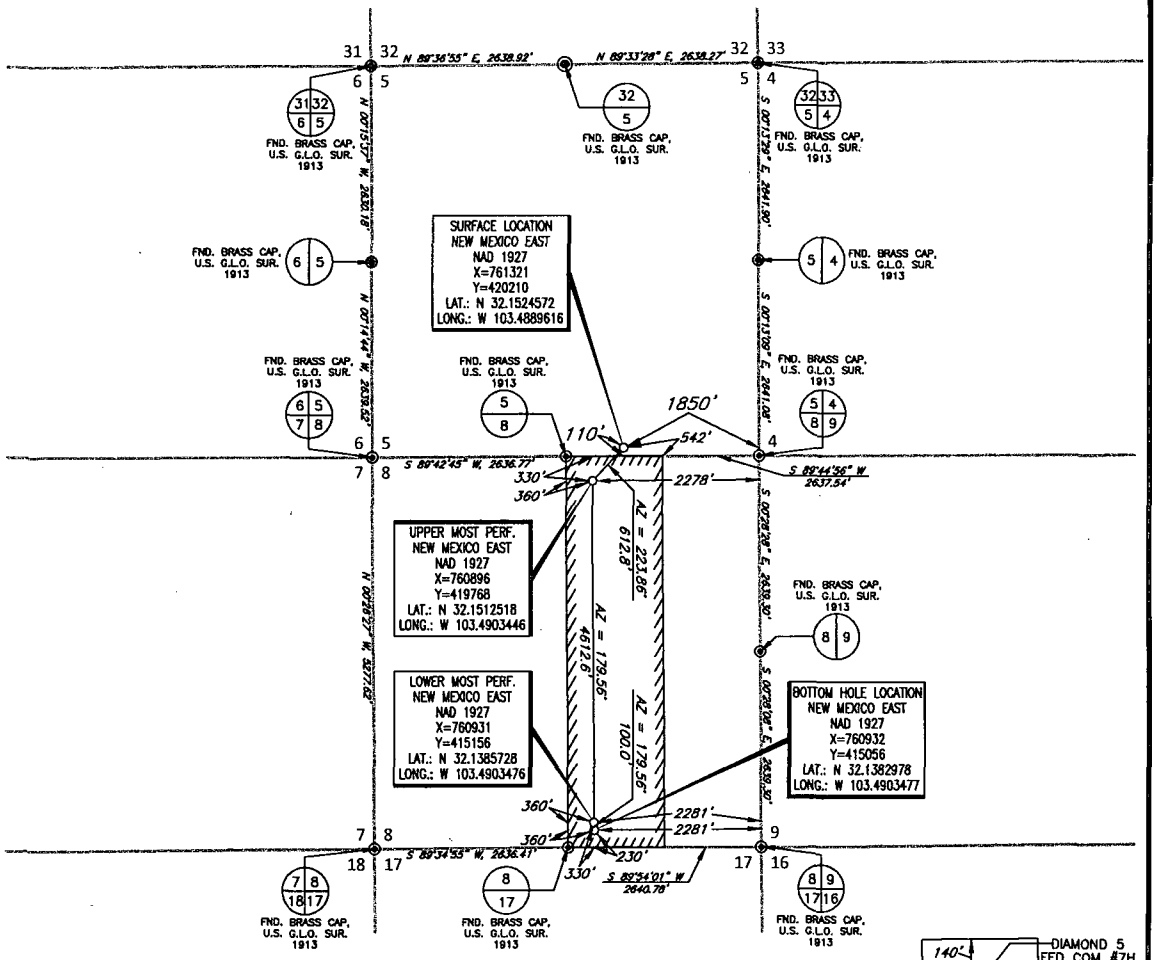
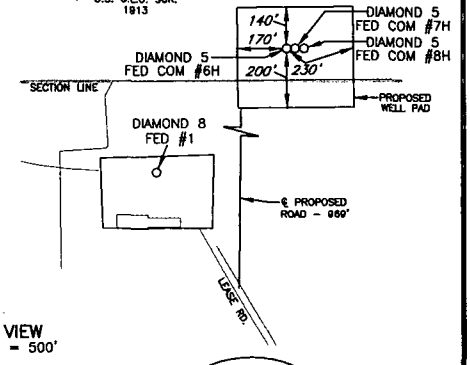
EXHIBIT 2A

eog resources, inc.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO





DETAIL VIEW
SCALE: 1" = 500'

N

SCALE: 1" = 2000'
0' 1000' 2000'

LEASE NAME & WELL NO.: DIAMOND 5 FED COM #6H

SECTION 5 **TWP** 25-S **RGE** 34-E **SURVEY** N.M.P.M.
COUNTY LEA **STATE** NM
DESCRIPTION 110' FSL & 1850' FEL

DISTANCE & DIRECTION FROM INT. OF NM-18 N & NM-128, GO WEST ON NM-128 W ±14.1 MILES, THENCE SOUTHWEST (LEFT) ON CR. 2/BATTLE AXE RD. ±5.7 MILES, THENCE NORTHWEST (RIGHT) ON LEASE RD. ±2.0 MILES, THENCE NORTH (RIGHT) ON LEASE RD. ±0.3 MILES TO A POINT ±969 FEET SOUTH OF THE LOCATION.

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ORIGINAL DOCUMENT SIZE: 8.5" X 14"

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329
MAY 29, 2013

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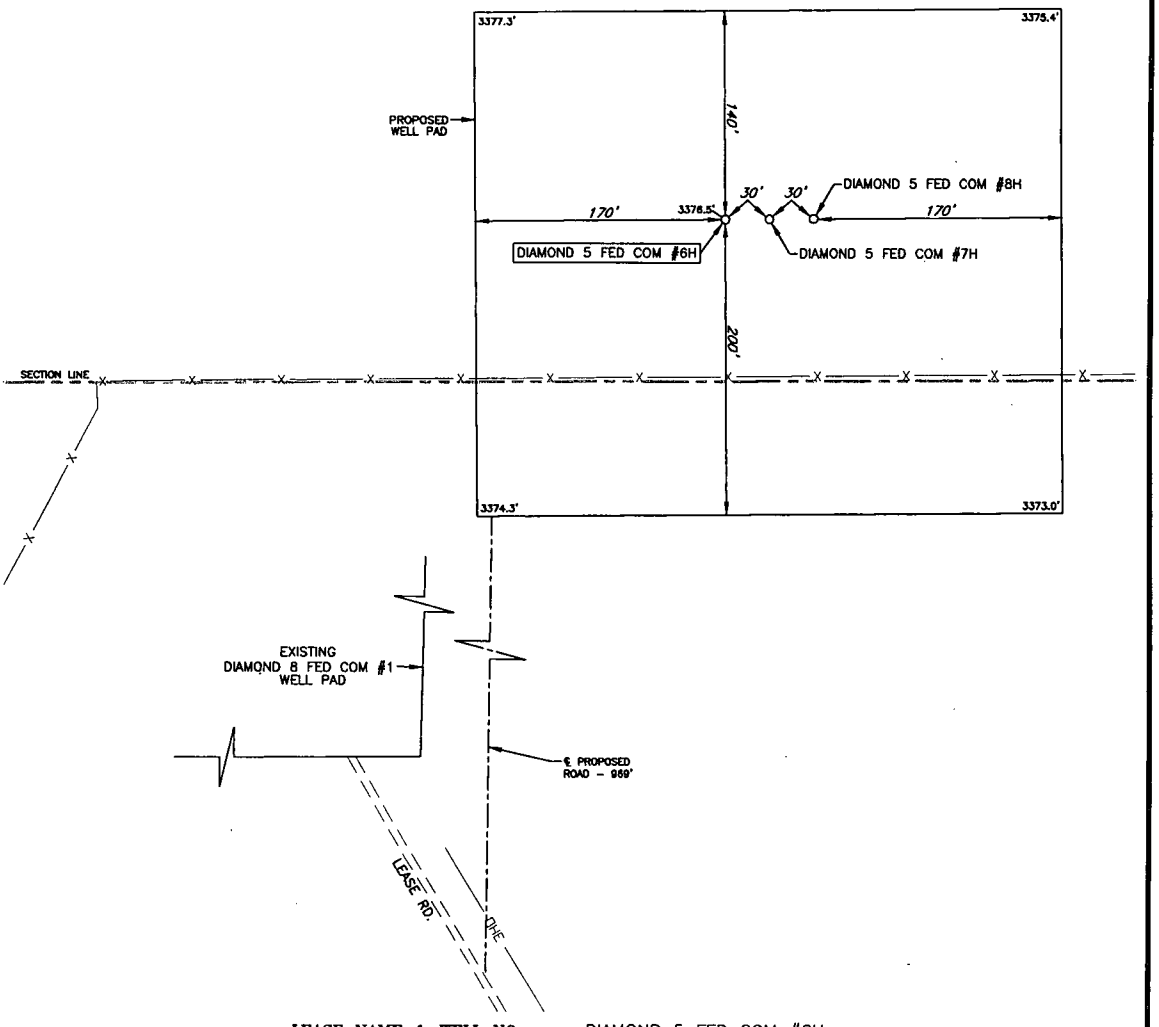
EXHIBIT 2B

eog resources, inc.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: DIAMOND 5 FED COM #6H

#6H LATITUDE N 32.1524572 **#6H LONGITUDE** W 103.4889616

LEGEND

- ROAD WAY
- SECTION LINE
- PROPOSED ROAD
- FENCE LINE

-N-

SCALE: 1" = 100'
0' 50' 100'

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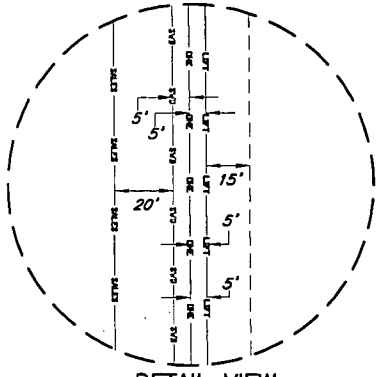
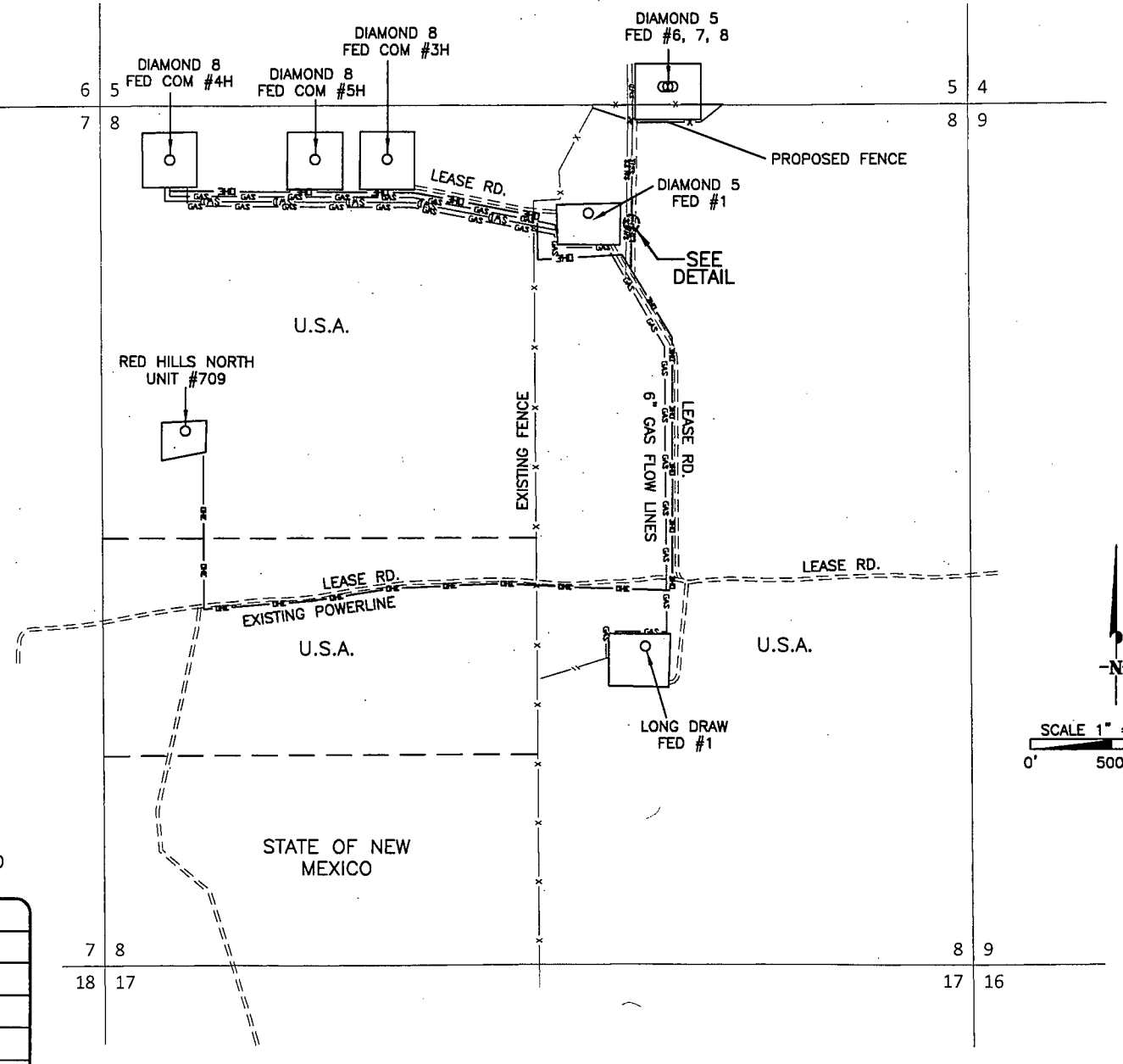
EXHIBIT 5

eog resources, inc.

DIAMOND 5 LEASE INFRASTRUCTURE MAP



DETAIL VIEW
NOT TO SCALE



PROPOSED ROAD
-TOTAL FOOTAGE 989 FT

1-6" GAS SALES LINE LP BURIED
-TOTAL FOOTAGE 1308 FT
-(WORKING PRESSURE 75-125 PSI)

1-4" POLY GAS LIFT LINE
-TOTAL FOOTAGE 1252 FT
-(WORKING PRESSURE 75-125 PSI)

ELECTRIC LINE
-TOTAL FOOTAGE 1252 FT

1-4" POLY SWD LINE
-TOTAL FOOTAGE 1252 FT
-(WORKING PRESSURE 75-125 PSI)

PROPOSED FENCE
-TOTAL FOOTAGE 847 FT
(795 FT EXISTING FENCE TO BE REMOVED)

N

SCALE 1" = 1000'
0' 500' 1000'

DIAMOND 5 LEASE INFRASTRUCTURE MAP	REVISION:	
DATE: MAY 29, 2013		
FILE: SK_DIAMOND5_LEASE_INFRASTRUCTURE_MAP		
DRAWN BY: E.O.		
SHEET : 1 OF 1		

EOG RESOURCES, INC.
DIAMOND 5 FED COM NO. 6H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,090'
Top of Salt	1,490'
Base of Salt	5,067'
Anhydrite	5,067'
Lamar	5,295'
Bell Canyon	5,321'
Cherry Canyon	6,270'
Brushy Canyon	7,830'
Bone Spring Lime	9,273'
TD	9,533'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,270'	Oil
Brushy Canyon	7,830'	Oil
Bone Spring Lime	9,273'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at ~~1,150'~~ 1200' and circulating cement back to surface.

4. CASING PROGRAM - NEW

See COA

Hole Size	Interval 1200'	Csg OD	Weight	Grade	Conn	DF_{min} Collapse	DF_{min} Burst	DF_{min} Tension
17.5"	0 –~~1,150'~~	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000'-5,150'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-13,164'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft^3/ft	Slurry Description
1,150'	500	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% $CaCl_2$ + 0.25 lb/sk Cello-Flake (TOC @ surface)
	250	14.8	1.34	Tail: Class C + 0.005 pps Static Free + 1% $CaCl_2$ + 0.25 pps CelloFlake + 0.005 gps FP-6L
5,150'	850	12.7	2.22	Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
13,164'	300	10.8	3.68	Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 4650')
	325	11.9	2.38	Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	1350	14.2	1.28	Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

See COA

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

3000 psi BOPE is adequate for this application. Due to the 3000 psi BOPE requirement no FIT tests are planned.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 2000/ 250 psig and the annular preventer to 2000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 3000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The applicable depths and properties of the drilling fluid systems are as follows. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

See COA

Depth 1200'	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,~~150~~'	Fresh Water Gel	8.6-8.8	28-34	N/c
~~1,150~~' – 5,150'	Saturated Brine	10.0-10.2	28-34	N/c
5,150' – 8,972'	Cut Brine Water	8.5-9.3	28-34	N/c
8,972'– 13,164' Lateral	Cut Brine Water	9.0-9.5	28-34	N/c

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

See COA

(C) H_2S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL Will be run in cased hole during completions phase of operations, from kick off point to intermediate casing point.

See COA

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

See COA

The estimated bottom-hole temperature (BHT) at TD is 155 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4127 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

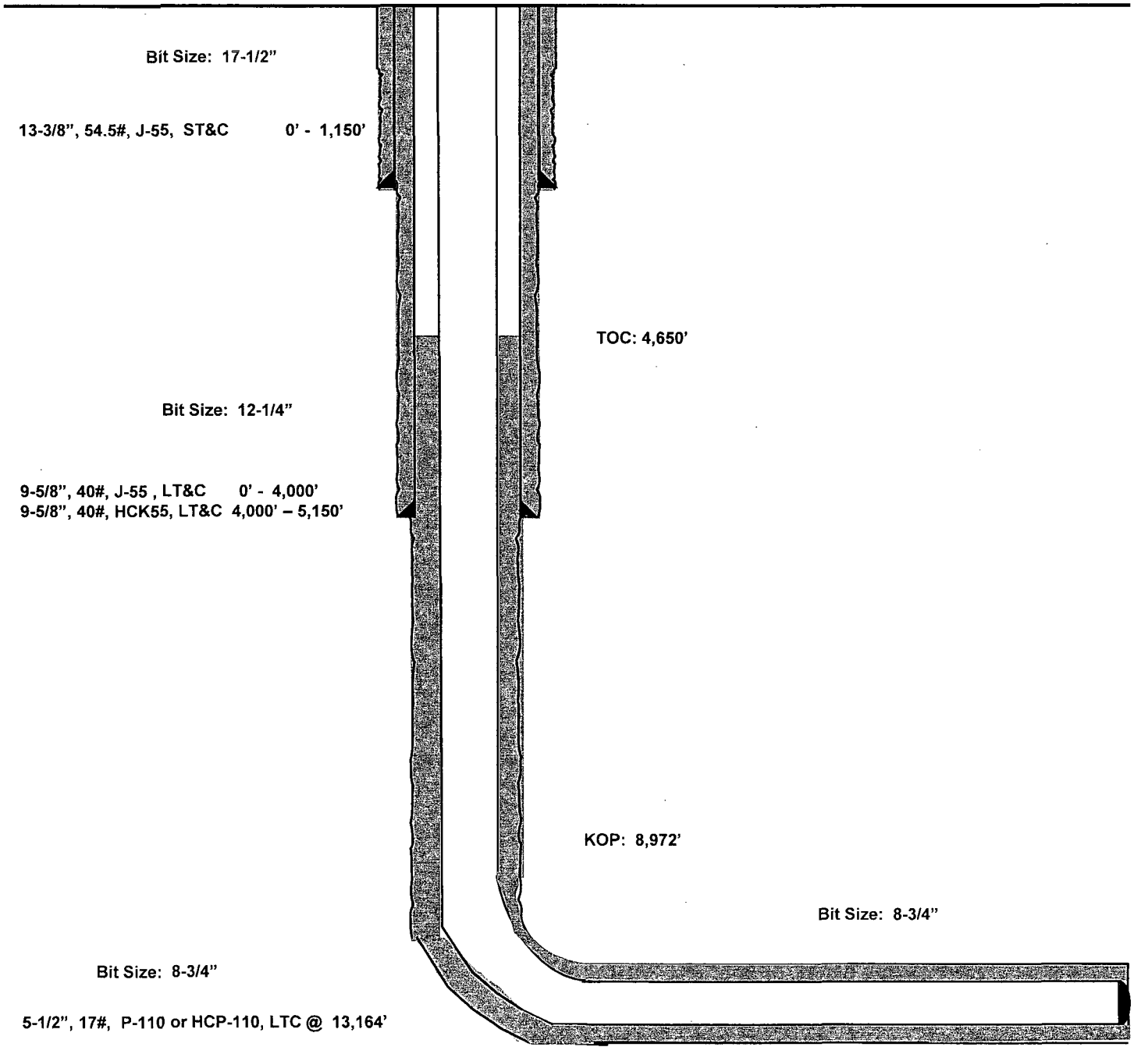
Diamond 5 Fed Com #6H
Red Hills
Lea County, New Mexico

110' FSL
1850' FEL
Section 5
T-25-S, R-34-E

Proposed Wellbore

API: 30-025- *****

KB: 3,407'
GL: 3,377'



Lateral: 13,164' MD, 9,533' TVD

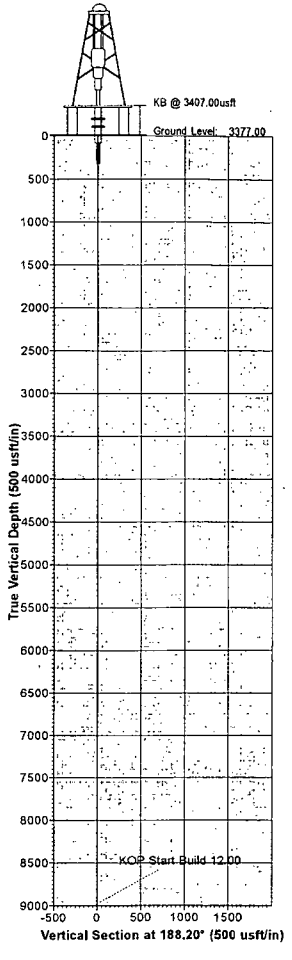
BH Location: 1601' FSL & 2426' FEL
Section 8
T-25-S, R-34-E

Project: Lea County, NM (NAD27 NME)
Site: Diamond 5 Fed Com
Well: #6H
Wellbore: WB1
Design: Plan #2 08-28-13

PHOENIX TECHNOLOGY SERVICES

Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.83°

Magnetic Field
Strength: 48369.6snT
Dip Angle: 60.08°
Date: 07/31/2013
Model: IGRF2010_14



WELL DETAILS

Ground Level: 3377.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	420210.00	761321.00	32° 9' 8.84514 N	103° 29' 20.26014 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	8972.50	0.00	0.00	8972.50	0.00	0.00	0.00	0.00	0.00		KOP Start Build 12.00
3	9714.33	89.00	213.00	9450.00	-393.54	-255.57	12.00	213.00	425.98		LP Start DLS 3.00 TFO -91.11
4	10829.33	88.55	179.55	9474.51	-1448.45	-563.53	3.00	-91.11	1514.01		Start 2335.36 hold at 10829.33 MD
5	13164.69	88.55	179.55	9533.50	-3783.00	-545.00	0.00	0.00	3822.06	PBHL-Diamond #6H	TD at 13164.69

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Upper-Diamond #6H	9450.00	-442.00	-571.00	419768.00	760750.00	32° 9' 4.51563 N	103° 29' 26.94175 W	Point
- plan misses target center by 248.67usft at 9900.00usft MD (9453.41 TVD, -553.89 N, -348.95 E)								
PBHL-Diamond #6H	9533.50	-3783.00	-545.00	416427.00	760776.00	32° 8' 31.45297 N	103° 29' 26.94340 W	Point
- plan hits target center								

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° 9' 8.84514 N
Longitude: 103° 29' 20.26014 W

Grid East: 761321.00
Grid North: 420210.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 31-Jul-13
Magnetic Declination: 7.28°
Dip Angle from Horizontal: 60.08°
Magnetic Field Strength: 48370

To convert a Magnetic Direction to a Grid Direction, Add 6.83°
To convert a Magnetic Direction to a True Direction, Add 7.28° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

PROJECT DETAILS: Lea County, NM (NAD27 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

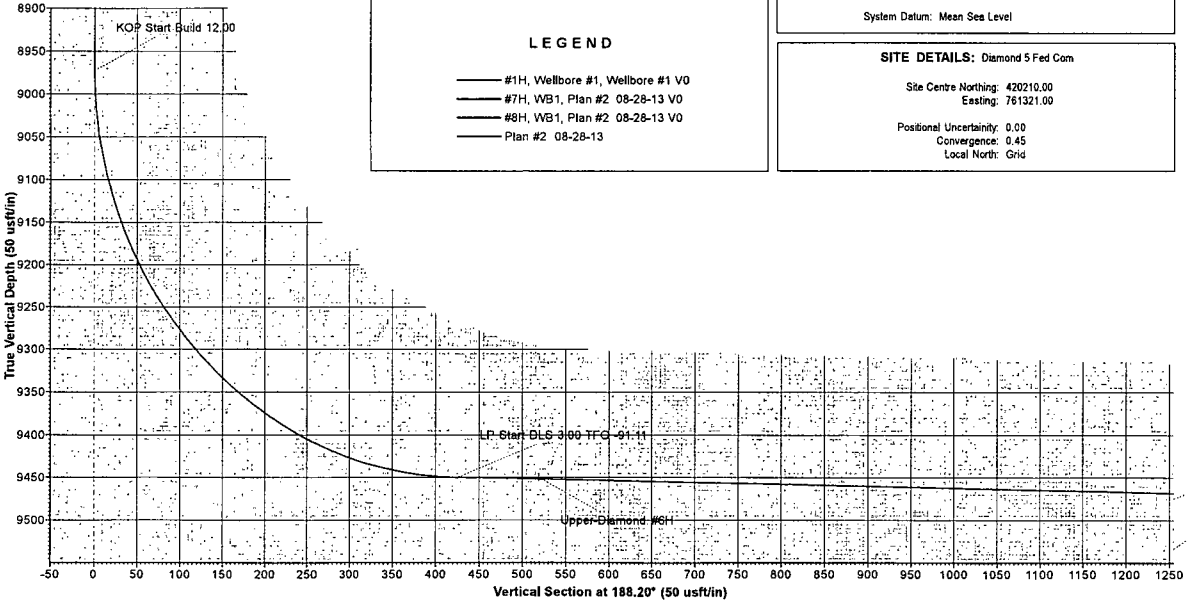
SITE DETAILS: Diamond 5 Fed Com

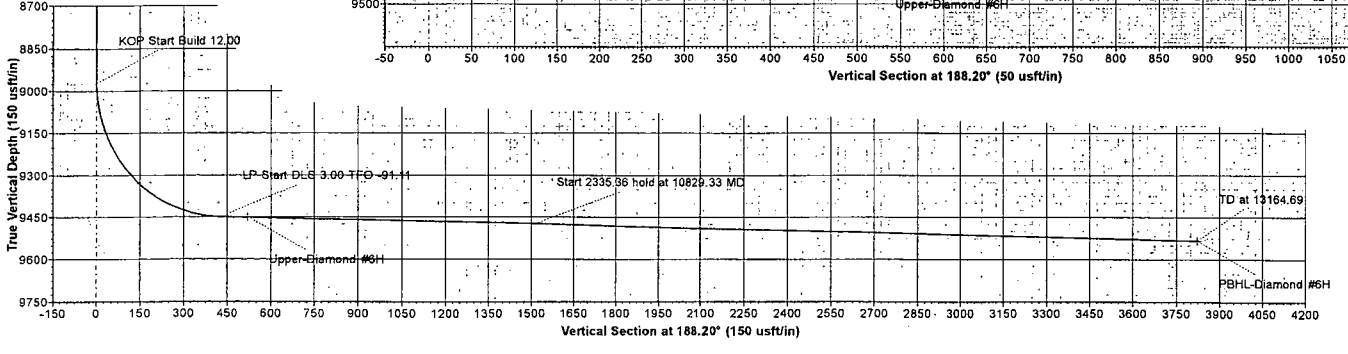
Site Centre Northing: 420210.00
Easting: 761321.00

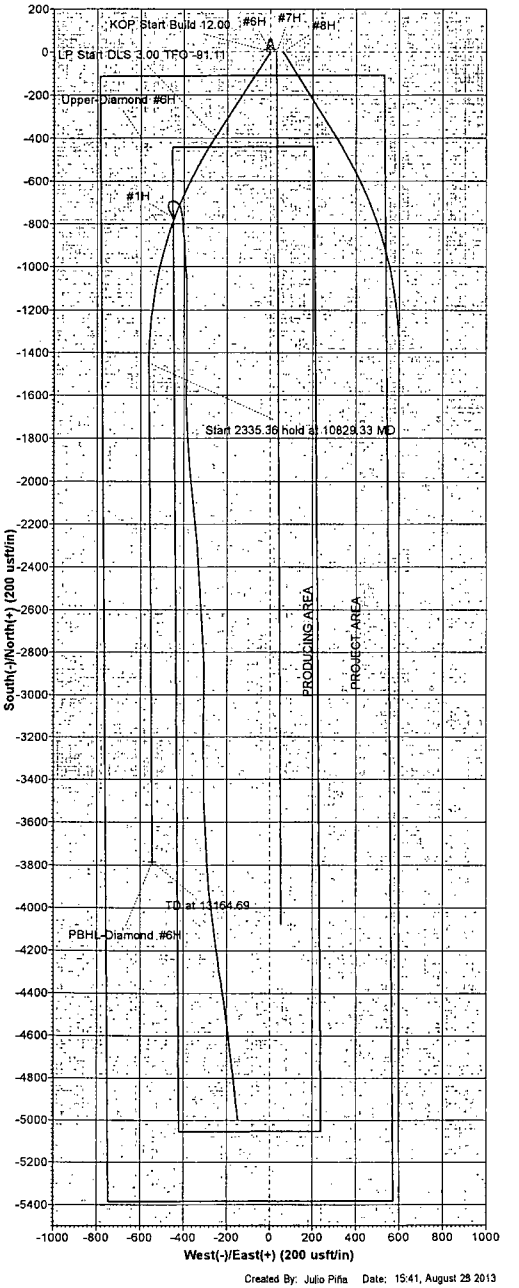
Positional Uncertainty: 0.00
Convergence: 0.45
Local North: Grid

LEGEND

- #1H, Wellbore #1, Wellbore #1 V0
- #7H, WB1, Plan #2 08-28-13 V0
- #8H, WB1, Plan #2 08-28-13 V0
- Plan #2 08-28-13







Created By: Julio Pina Date: 15:41, August 28 2013