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

HOBBS OCD
MAY 09 2016
RECEIVED

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

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- 43225	98094	WC-025 G-09 S253336D; Upper Wolfcamp

[4]Property Code	[5]Property Name	[6]Well Number
316203	WHIRLING WIND 11 FED COM	#703H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3345'

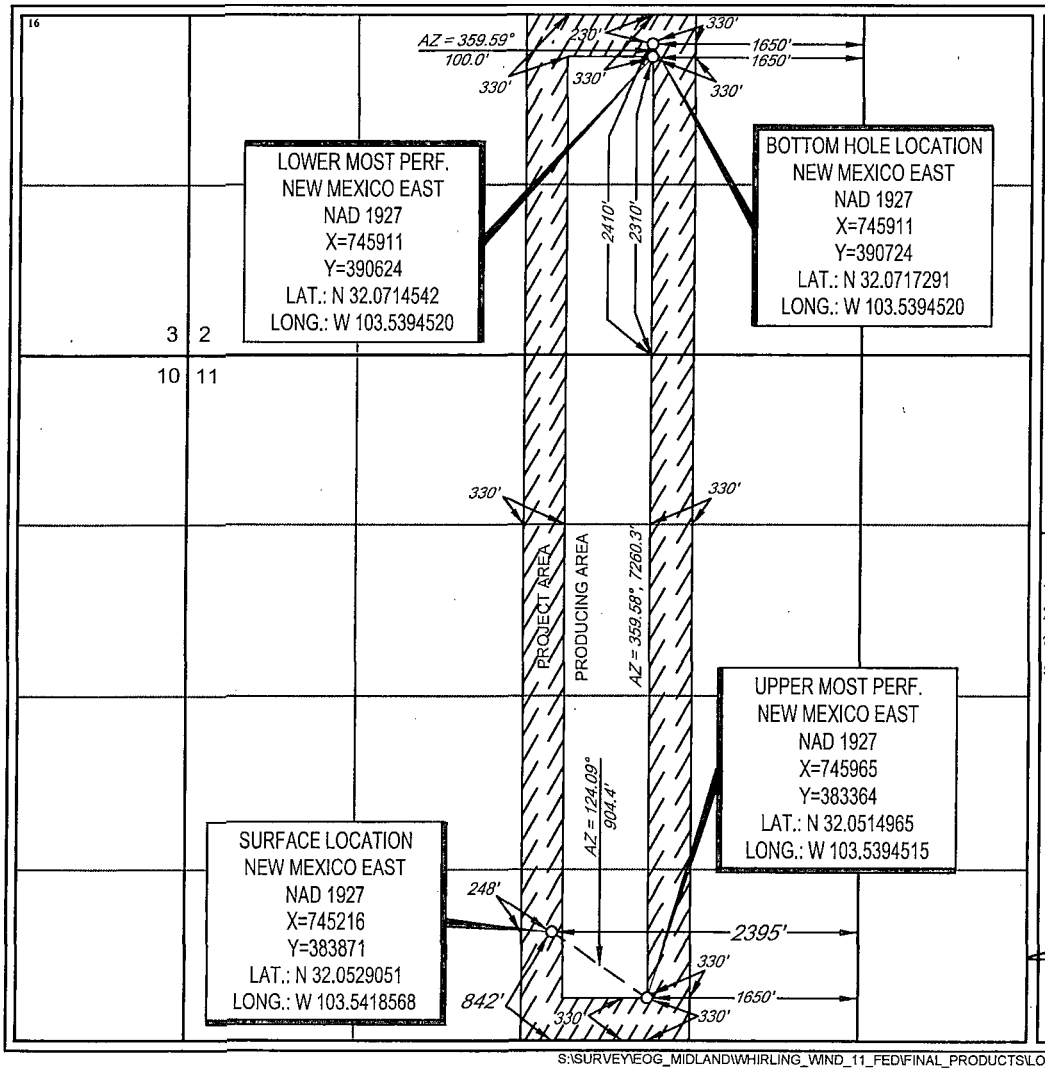
[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	11	26-S	33-E	-	842'	SOUTH	2395'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	2	26-S	33-E	-	2410'	SOUTH	1650'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
240.00			

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.

Stan Wagner 3/2/16
Signature Date

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.

02/22/2016
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

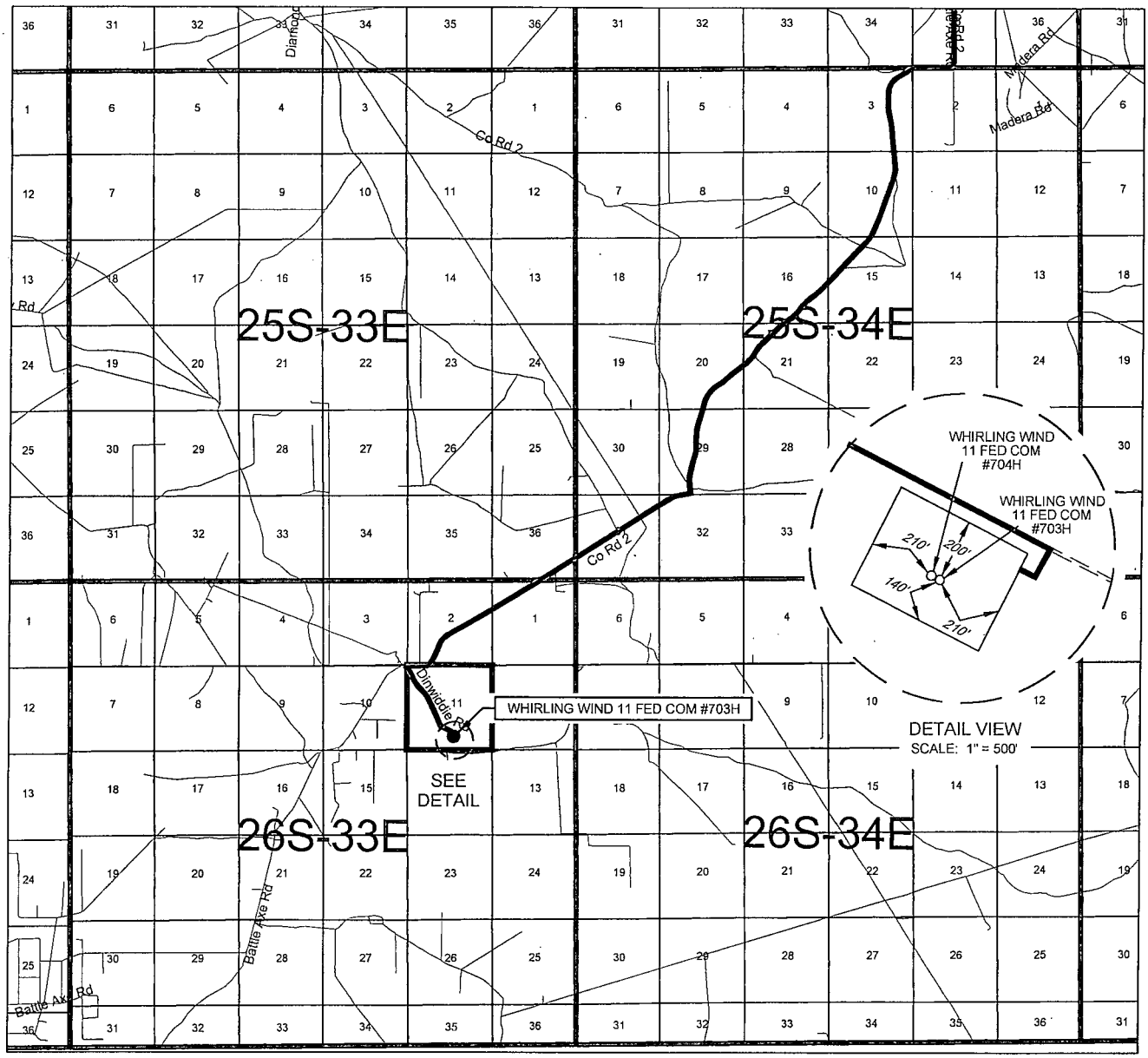
Certificate Number

MAY 12 2016

S:\SURVEY\EOG_MIDLAND\WHIRLING_WIND_11_FED\FINAL_PRODUCTS\LO_WHIRLINGWIND11FEDCOM_703H.DWG 2/25/2016 9:30:39 AM ccaston

EXHIBIT 2

VICINITY MAP

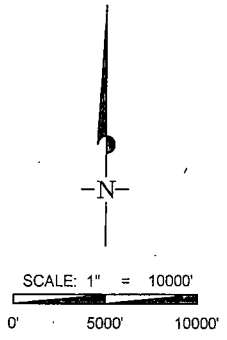


eog resources, inc.

LEASE NAME & WELL NO.: WHIRLING WIND 11 FED COM #703H

SECTION 11 TWP 26-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 842' FSL & 2395' 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. ±13.5 MILES, THENCE SOUTHEAST (LEFT) ON DINWIDDIE RD. ±1.2 MILES TO A POINT ±140 FEET NORTH OF THE LOCATION.



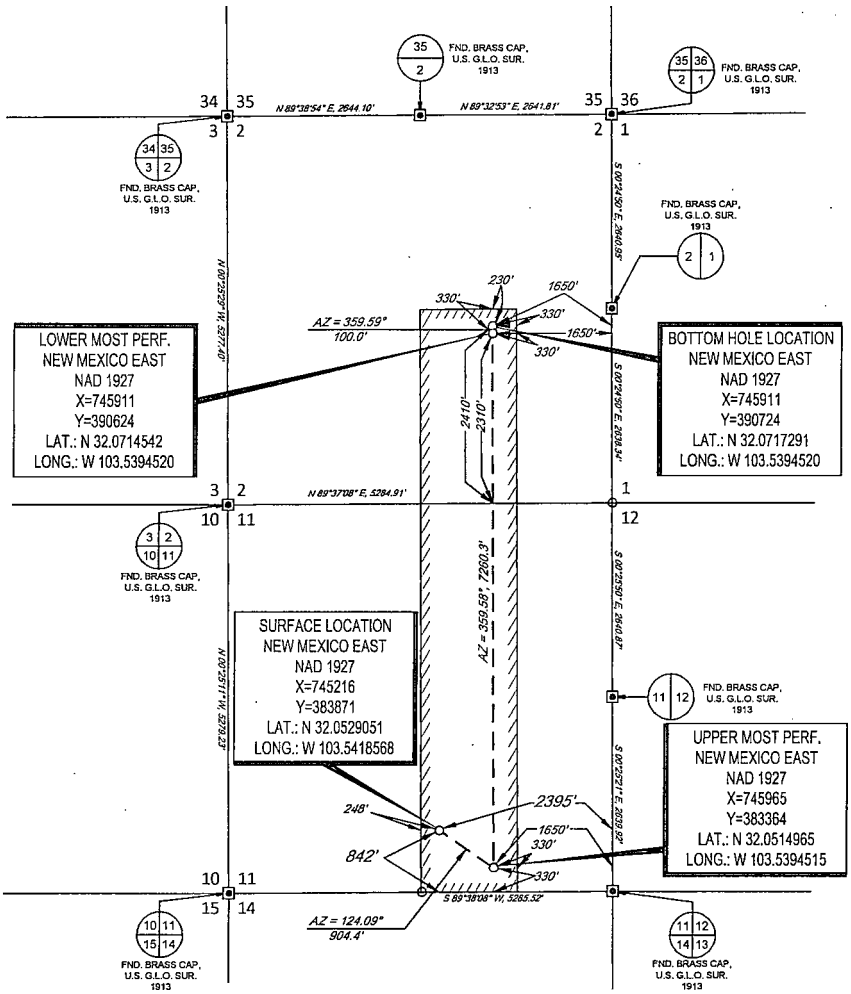
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS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

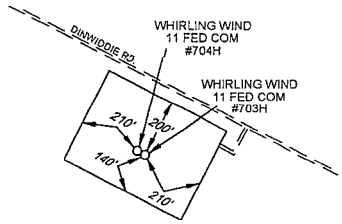
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

EXHIBIT 2A

SECTION 11, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO





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

DETAIL VIEW
SCALE: 1" = 500'

LEASE NAME & WELL NO.: WHIRLING WIND 11 FED COM #703H

SECTION 11 TWP 26-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 842' FSL & 2395' 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. ±13.5 MILES, THENCE
SOUTHEAST (LEFT) ON DINWIDDIE RD. ±1.2 MILES TO A POINT
±140 FEET NORTH OF THE LOCATION.

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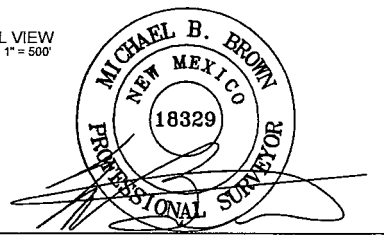

Michael Blake Brown, P.S. No. 18329
FEBRUARY 23, 2016

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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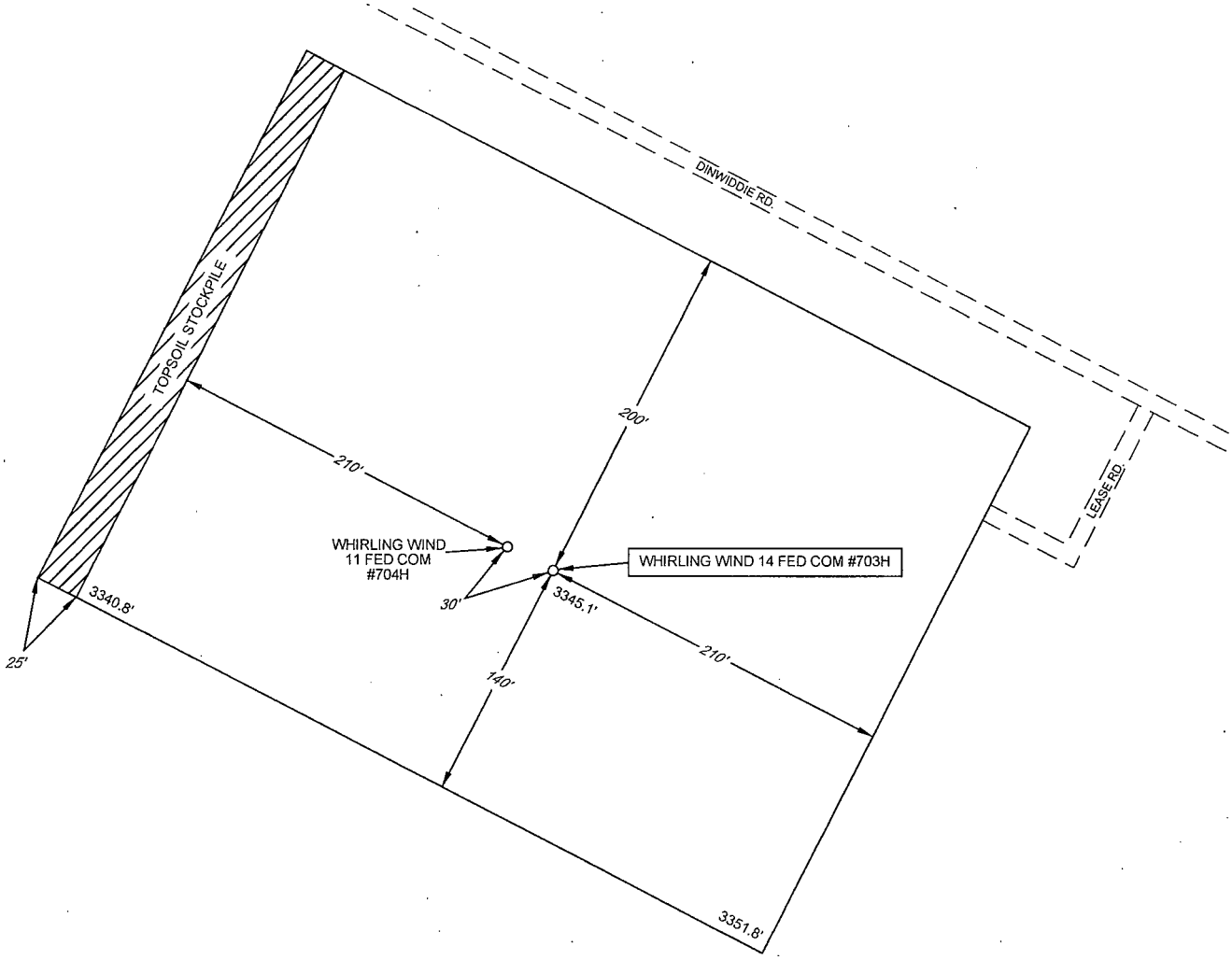
WWW.TOPOGRAPHIC.COM

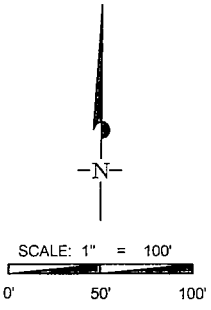
EXHIBIT 2B

SECTION 11, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: WHIRLING WIND 11 FED COM #703H
#703H LATITUDE N 32.0529051 #703H LONGITUDE W 103.5418568



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THIS PROPOSED PAD SITE 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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TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

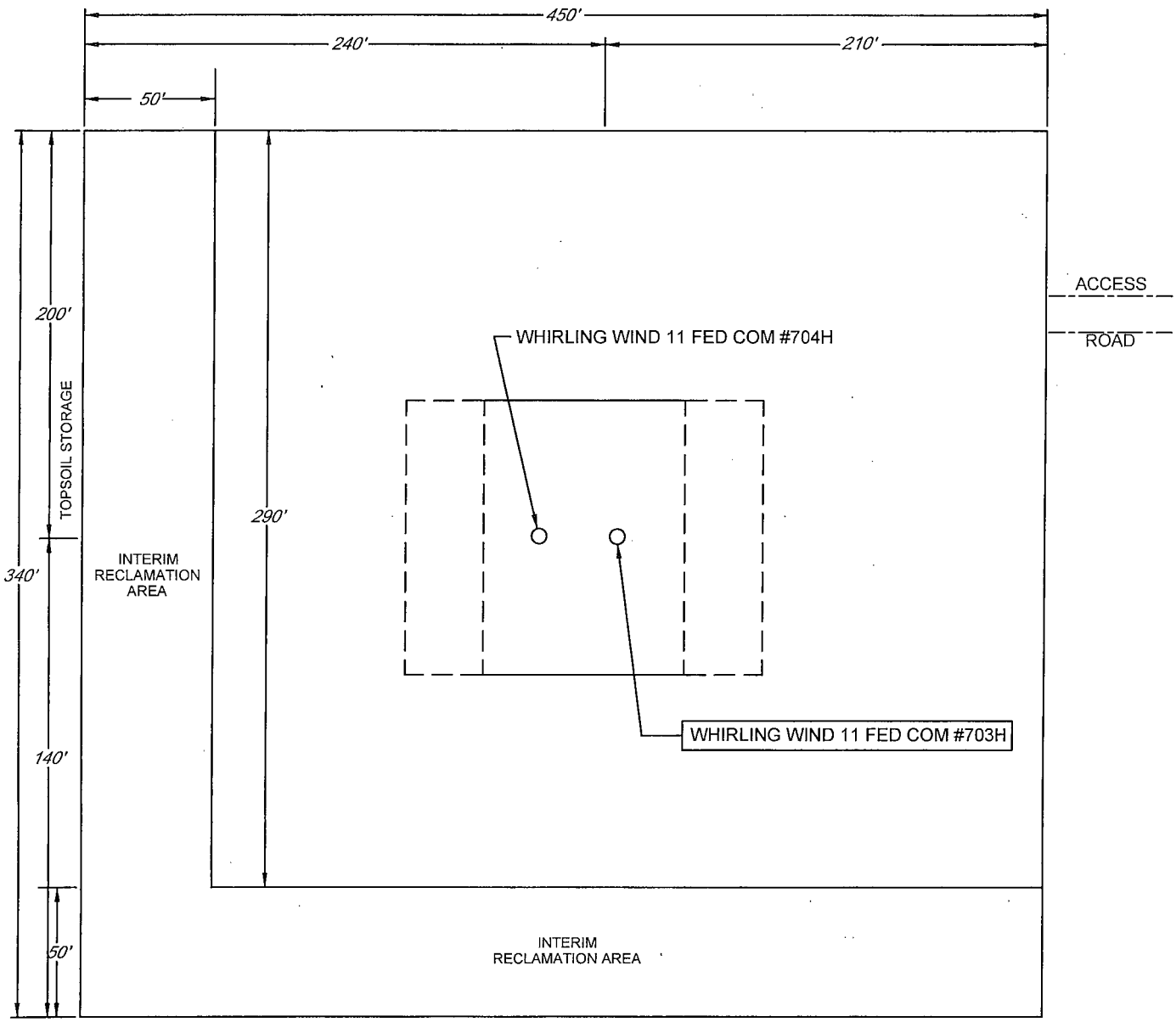
ORIGINAL DOCUMENT SIZE: 8.5" X 11"

EXHIBIT 2C

RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SECTION 11, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 60'



LEASE NAME & WELL NO.: WHIRLING WIND 11 FED COM #703H

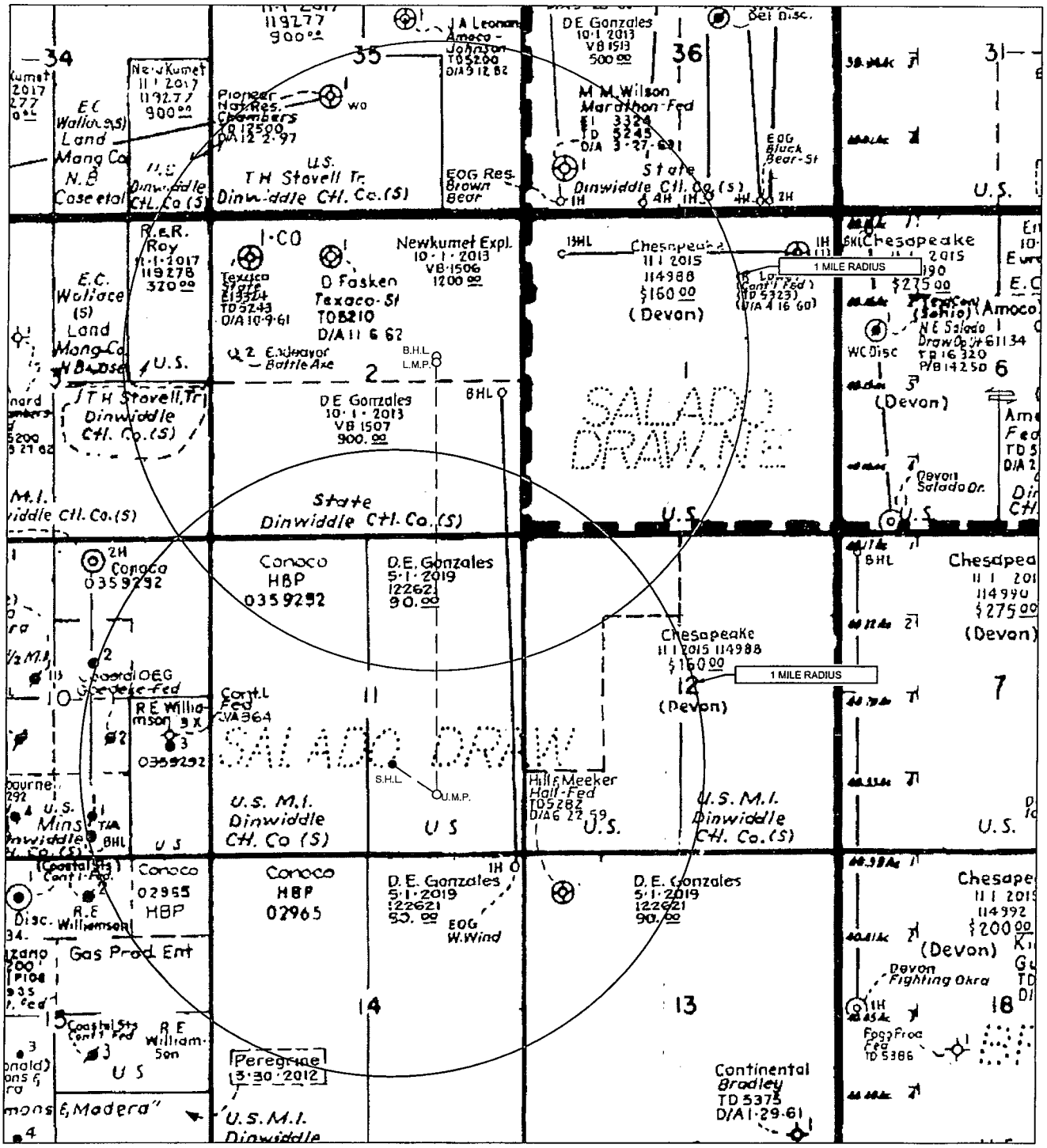
#703H LATITUDE N 32.0529051 #703H LONGITUDE W 103.5418568

S:\SURVEY\EOG_MIDLAND\WHIRLING_WIND_11_FED\FINAL_PRODUCTS\LO_WHIRLINGWIND11FEDCOM_703H.DWG 2/25/2016 5:15:08 PM ccaston

EXHIBIT 3

SECTION 11, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

eog resources, inc.



LEASE NAME & WELL NO.: WHIRLING WIND 11 FED COM #703H

SCALE: NTS

#703H LATITUDE N 32.0529051 #703H LONGITUDE W 103.5418568

-N-

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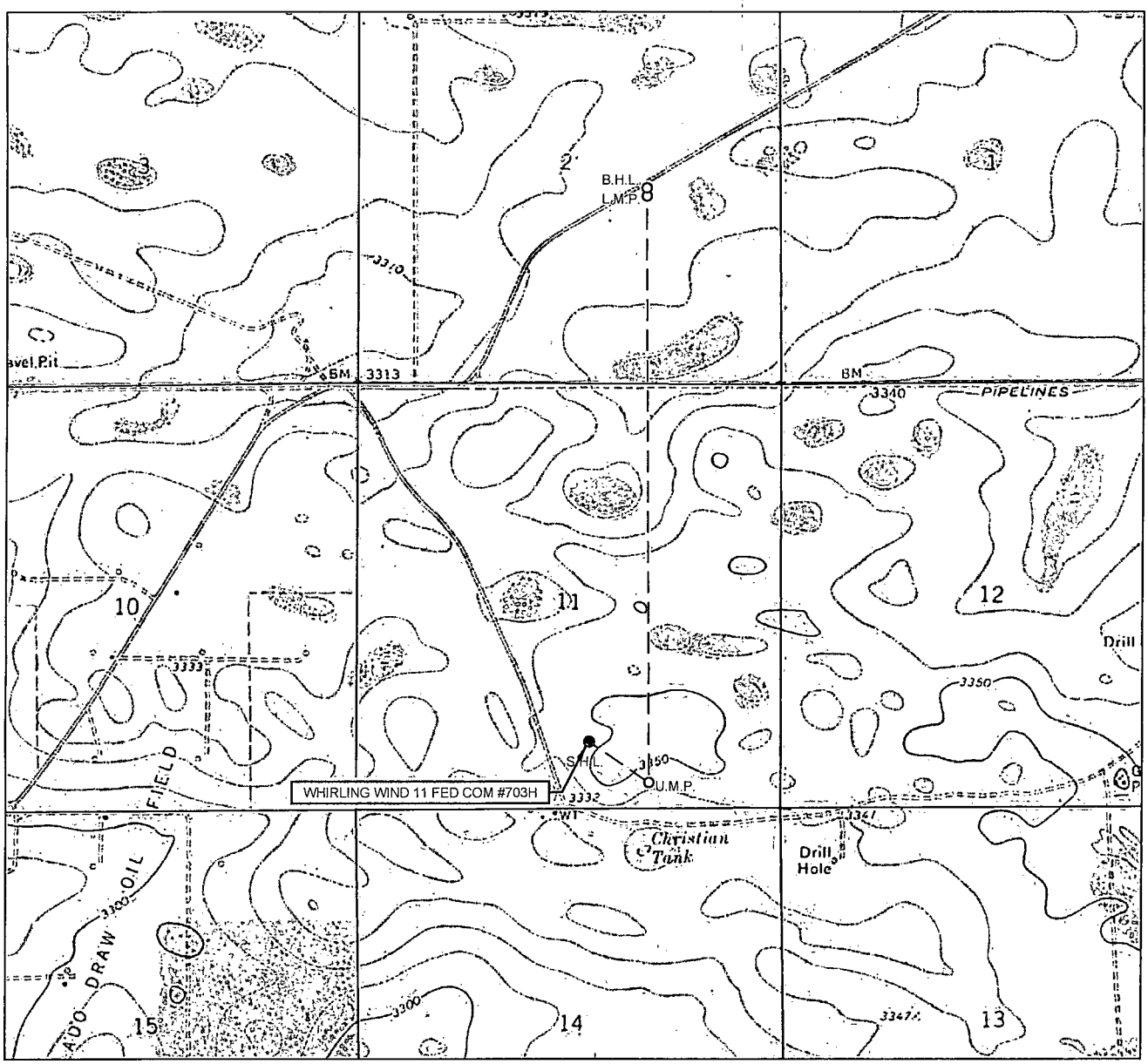
WWW.TOPOGRAPHIC.COM

LOCATION & ELEVATION VERIFICATION MAP



eog resources, inc.

LEASE NAME & WELL NO.: WHIRLING WIND 11 FED COM #703H

SECTION 11 TWP 26-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3345'
DESCRIPTION 842' FSL & 2395' FEL

LATITUDE N 32.0529051 LONGITUDE W 103.5418568

N

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

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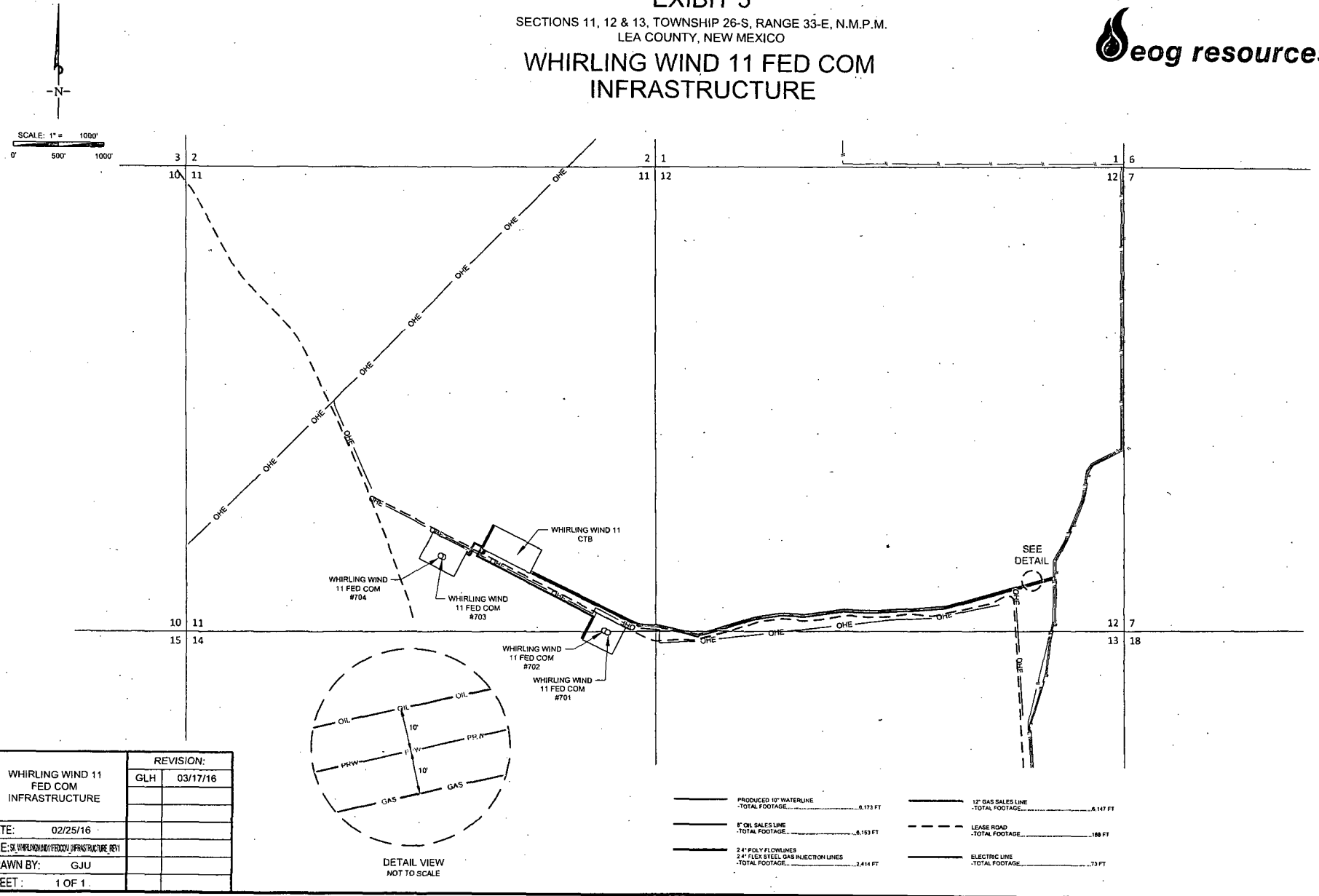
WWW.TOPOGRAPHIC.COM

EXIBIT 5

SECTIONS 11, 12 & 13, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

WHIRLING WIND 11 FED COM INFRASTRUCTURE

eog resources, inc.



WHIRLING WIND 11 FED COM INFRASTRUCTURE	REVISION:	
	GLH	03/17/16
DATE: 02/25/16		
FILE: S:\...\WHIRLINGWIND11FEDCOM_INFRASTRUCTURE_REV1		
DRAWN BY: GJU		
SHEET: 1 OF 1		

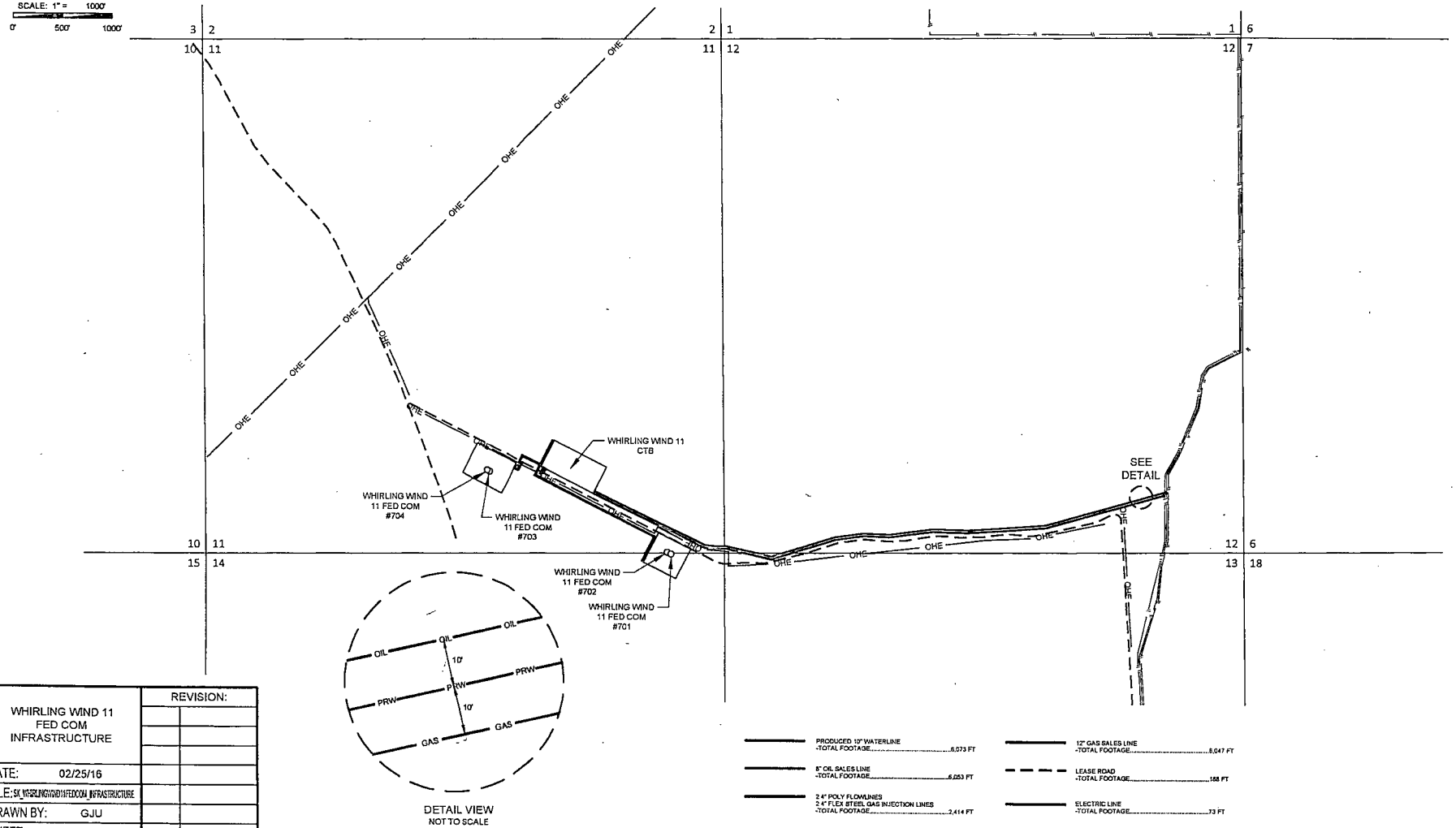
S:\SURVEY-EOG_MIDLAND\WHIRLING_WIND_11_FED\FINAL_PRODUCTS\SKETCH\SK_WHIRLINGWIND11FEDCOM_INFRASTRUCTURE_REV1.DWG 3/17/2016 1:52:10 PM ghombeck

EXIBIT 5

SECTIONS 11, 12 & 13, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

WHIRLING WIND 11 FED COM INFRASTRUCTURE

eog resources, inc.



DETAIL VIEW
NOT TO SCALE

PRODUCED 10" WATERLINE
-TOTAL FOOTAGE..... 6,073 FT

8" OIL SALES LINE
-TOTAL FOOTAGE..... 6,053 FT

2.4" POLY FLOWLINES
2.4" FLEX STEEL GAS INJECTION LINES
-TOTAL FOOTAGE..... 2,414 FT

12" GAS SALES LINE
-TOTAL FOOTAGE..... 8,047 FT

LEASE ROAD
-TOTAL FOOTAGE..... 168 FT

ELECTRIC LINE
-TOTAL FOOTAGE..... 73 FT

WHIRLING WIND 11 FED COM INFRASTRUCTURE	REVISION:	
DATE: 02/25/16		
FILE: SK WHIRLINGWIND11FEDCOM INFRASTRUCTURE		
DRAWN BY: GJU		
SHEET : 1 OF 1		

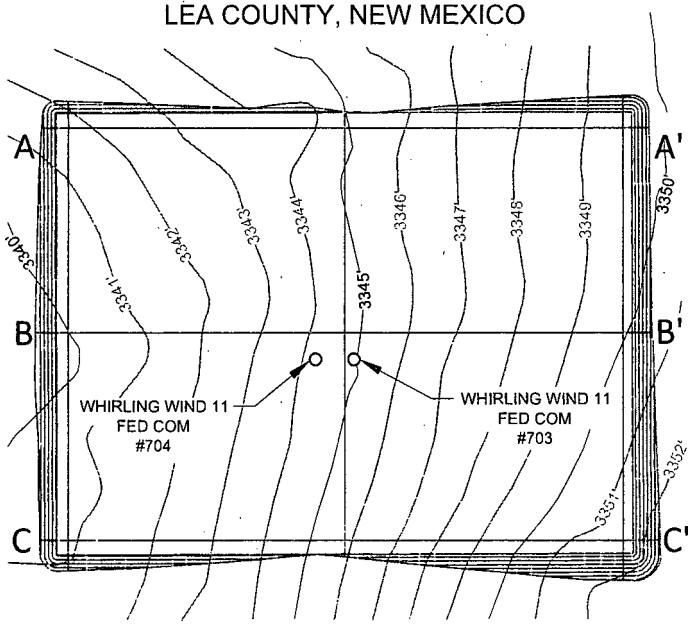
S:\SURVEY\EOG_MIDLAND\WHIRLING_WIND_11_FED\FINAL_PRODUCTS\SKETCHES\SK_WHIRLINGWIND11FEDCOM_INFRASTRUCTURE.DWG 2/25/2016 4:54:21 PM gurza

EXHIBIT 6

SCALE: 1" = 150'

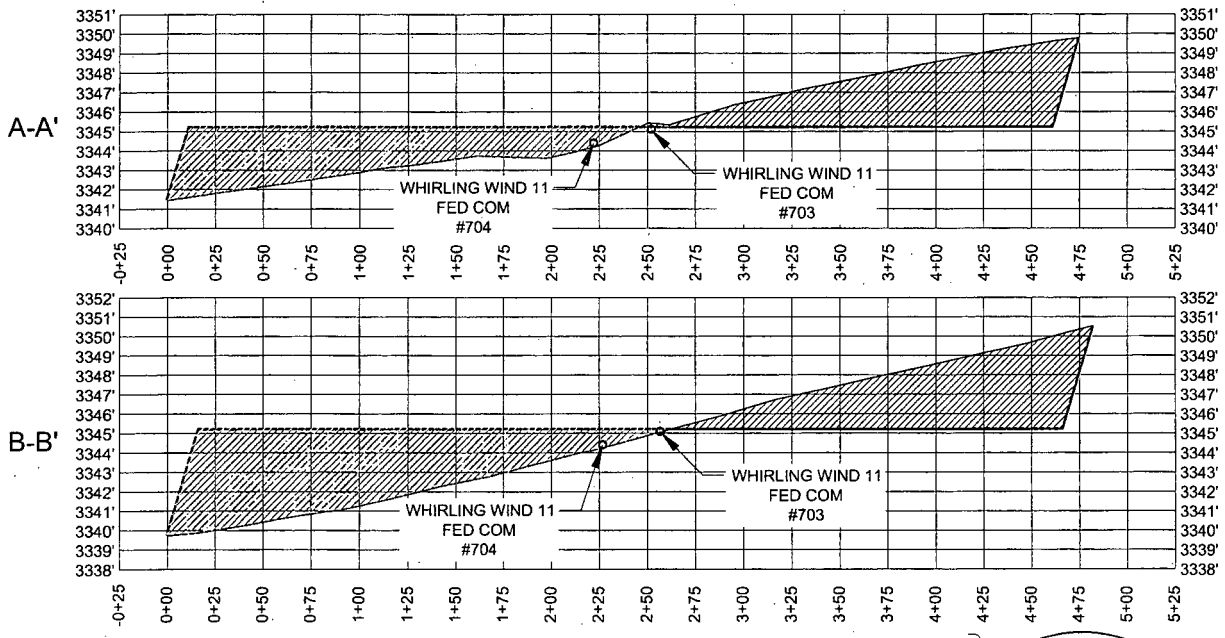
0' 75' 150'

SECTION 11, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



Top of pad elevation: 3345.2227
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Cut : 223,393.6 C.F., 8,273.84 C.Y.
Fill: 223,393.6 C.F., 8,273.84 C.Y.
Balance Import: 0.0 C.F., 0.00 C.Y.
Area: 171408.3 Sq.Ft., 3.935 Acres



Horizontal Scale = 1:50
Vertical Scale = 1:5

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329
JANUARY 14, 2016

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

eog resources, Inc.

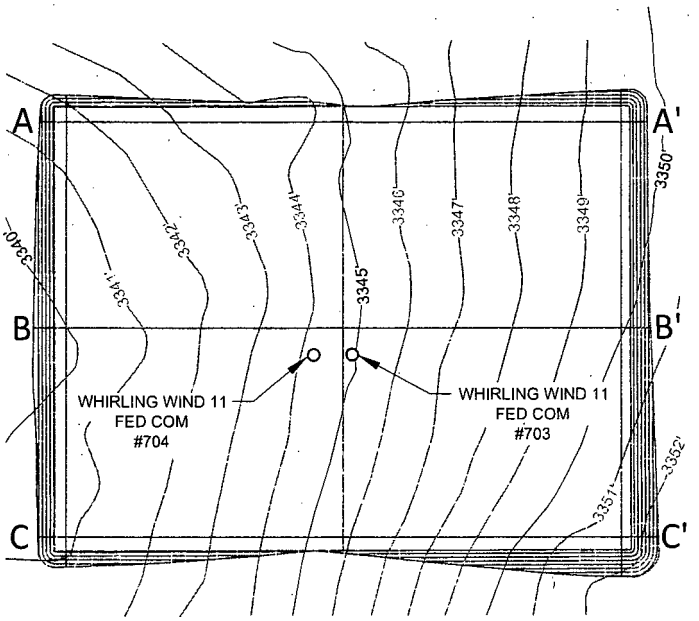
WHIRLING WIND 11 FED COM 703H-704H SITE PRO	REVISION: INT	DATE
DATE: 03/17/16		
FILE: CD_WHIRLINGWIND11FEDCOM_703H-704H_SITE_PRO		
DRAWN BY: GLH		
SHEET : 1 OF 2		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

EXHIBIT 6

SECTION 11, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SCALE: 1" = 150'
0' 75' 150'



Top of pad elevation: 3345.2227
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
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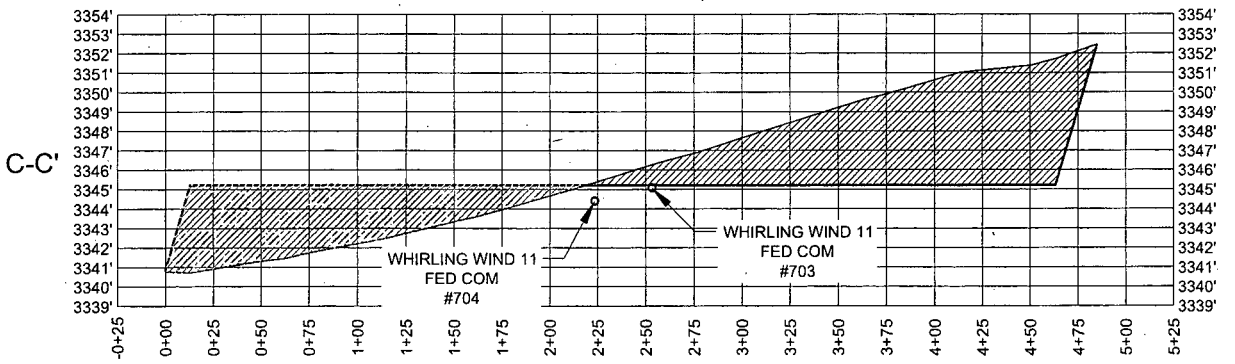
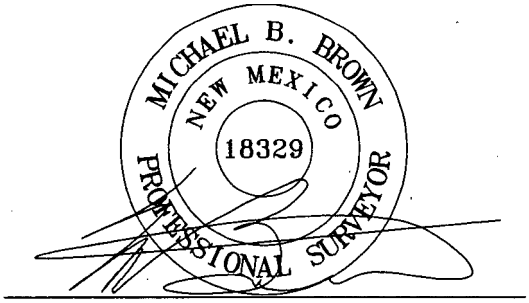
Pad Earthwork Volumes
Cut : 223,393.6 C.F., 8,273.84 C.Y.
Fill: 223,393.6 C.F., 8,273.84 C.Y.
Balance Import: 0.0 C.F., 0.00 C.Y.
Area: 171408.3 Sq.Ft., 3.935 Acres



Horizontal Scale = 1:50
Vertical Scale = 1:5



Michael Blake Brown, P.S. No. 18329
JANUARY 14, 2016

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
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TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

eog resources, inc.

WHIRLING WIND 11 FED COM 703H-704H SITE PRO	REVISION: INT	DATE
DATE: 03/17/16		
FILE: CD_WHIRLINGWIND11FEDCOM_703H-704H_SITE_PRO		
DRAWN BY: GLH		
SHEET: 2 OF 2		

NOTES:
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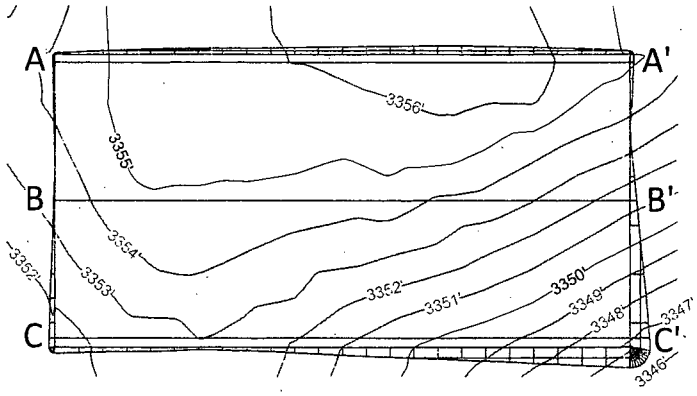
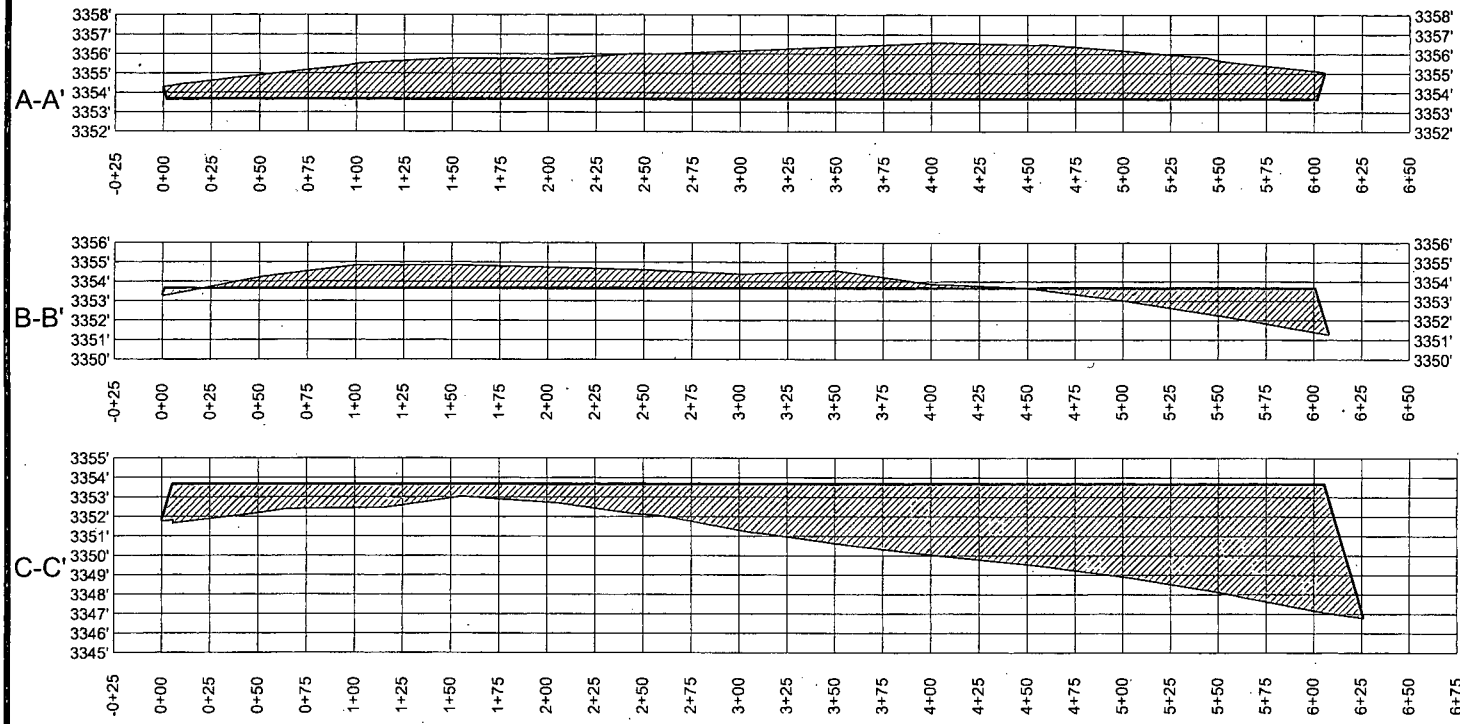
LEA COUNTY, NEW MEXICO

SCALE: 1" = 200'
0' 100' 200'

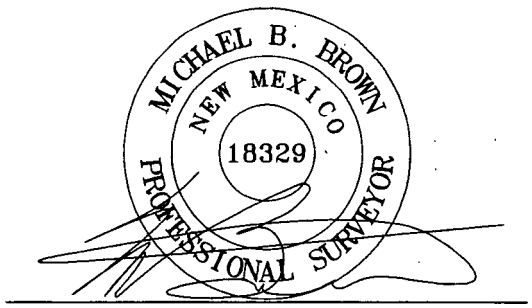


Top of pad elevation: 3353.6571
Cut Slope: 33.33% 3.00:1 18.43°
Fill Slope: 33.33% 3.00:1 18.43°
Balance Tolerance (C.Y.): 0.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Cut : 152,754.3 C.F., 5,657.56 C.Y.
Fill: 152,754.2 C.F., 5,657.56 C.Y.
Balance Export: 0.1 C.F., 0.00 C.Y.
Area: 193313.7 Sq.Ft., 4.438 Acres



Horizontal Scale = 1:50
Vertical Scale = 1:5



Michael Blake Brown, P.S. No. 18329
MARCH 25, 2016

TOPOGRAPHIC
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TEXAS FIRM REGISTRATION NO. 10042504
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eog resources, inc.

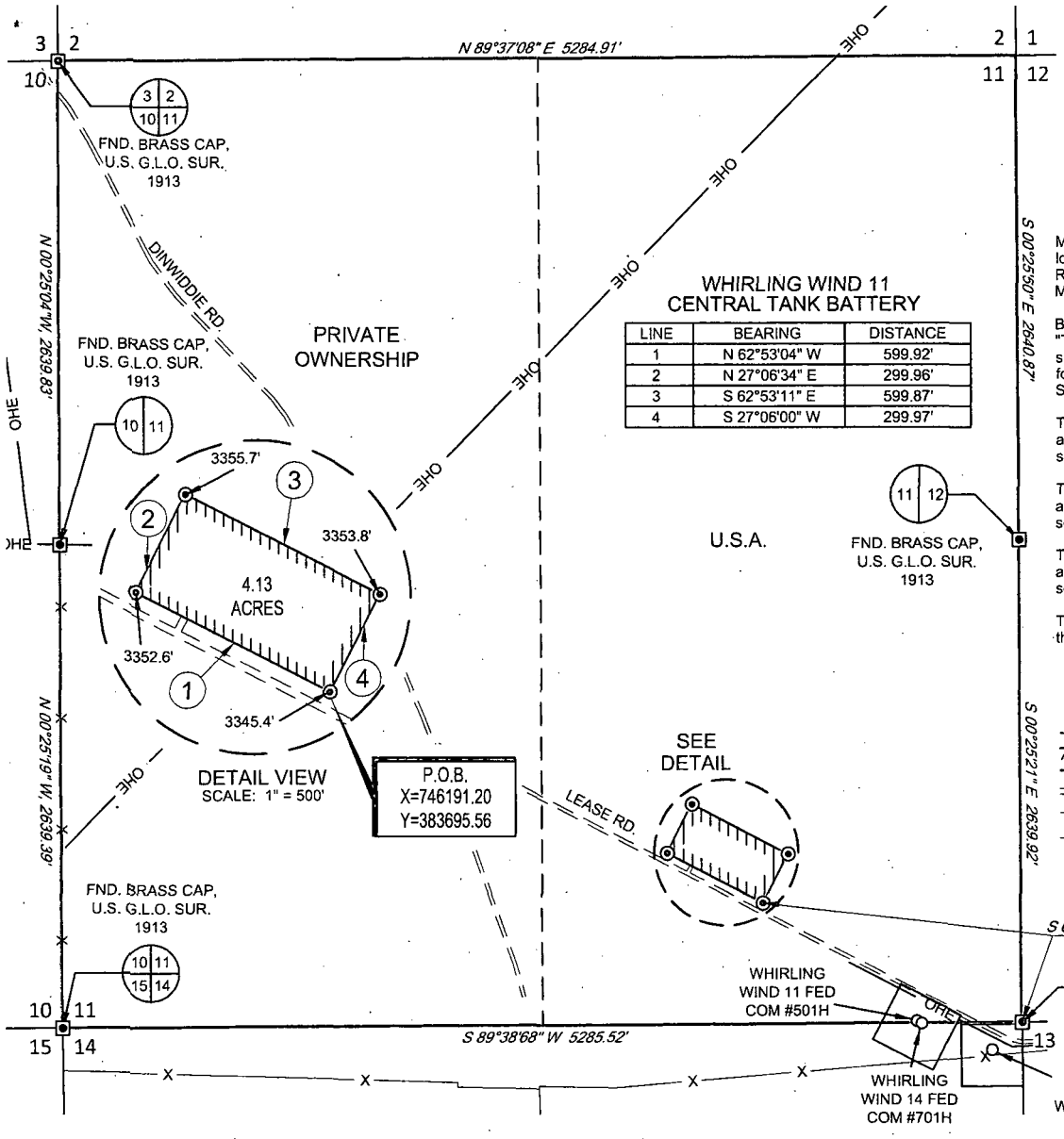
WHIRLING WIND 11 CTB SITE PRO	REVISION: INT	DATE
DATE: 03/25/16		
FILE: CD_WHIRLINGWIND11_CTB_SITE_PRO		
DRAWN BY: GLH		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 11, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



WHIRLING WIND 11 CENTRAL TANK BATTERY

LINE	BEARING	DISTANCE
1	N 62°53'04" W	599.92'
2	N 27°06'34" E	299.96'
3	S 62°53'11" E	599.87'
4	S 27°06'00" W	299.97'

WHIRLING WIND 11 CENTRAL TANK BATTERY

Metes and Bounds Description of a 4.13 acre site located within Section 11, Township 26 South, Range 33 East, N.M.P.M., in Lea County, New Mexico.

BEGINNING at a 1/2" iron rod with cap marked "TOPOGRAPHIC" set for the South corner of this site, from whence a U.S. G.L.O. brass cap found for the Southeast corner of said Section 11, bears: S 65°27'42" E, a distance of 1567.75 feet;

Thence N 62°53'04" W, a distance of 599.92 feet to a 1/2" iron rod with cap marked "TOPOGRAPHIC" set for the West corner of this site;

Thence N 27°06'34" E, a distance of 299.96 feet to a 1/2" iron rod with cap marked "TOPOGRAPHIC" set for the North corner of this site;

Thence S 62°53'11" E, a distance of 599.87 feet to a 1/2" iron rod with cap marked "TOPOGRAPHIC" set for the East corner of this site;

Thence S 27°06'00" W, a distance of 299.97 feet to the Point of Beginning.

LEGEND

- SURVEY/SECTION LINE
- SITE BOUNDARY
- TRACT BORDER
- ROAD WAY
- FENCE LINE
- OVERHEAD ELECTRIC
- MONUMENT
- POINT OF INTERSECTION
- IRON ROD SET

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329
MARCH 17, 2016

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eog resources, inc.

WHIRLING WIND 11 CENTRAL TANK BATTERY	REVISION:	
	GJU	02/25/16
	GLH	03/17/16
DATE: 01/08/16		
FILE: BO_WHIRLINGWIND11_CTB_REV2		
DRAWN BY: GJU		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. P.O.B. = POINT OF BEGINNING

EXTRA Copy

EOG RESOURCES, INC.
WHIRLING WIND 11 FED COM NO. 703H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,100'
Top of Salt	1,440'
Base of Salt / Top Anhydrite	4,880'
Base Anhydrite	5,120'
Lamar	5,120'
Bell Canyon	5,160'
Cherry Canyon	6,190'
Brushy Canyon	7,780'
Bone Spring Lime	9,250'
1st Bone Spring Sand	10,220'
2nd Bone Spring Shale	10,420'
2nd Bone Spring Sand	10,755'
3rd Bone Spring Carb	11,255'
3rd Bone Spring Sand	11,820'
Wolfcamp	12,325'
TD	12,555'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,190'	Oil
Brushy Canyon	7,780'	Oil
1st Bone Spring Sand	10,220'	Oil
2nd Bone Spring Shale	10,420'	Oil
2nd Bone Spring Sand	11,755'	Oil
3rd Bone Spring Carb	11,255'	Oil
3rd Bone Spring Sand	11,820'	Oil
Wolfcamp	12,325'	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 10.75" casing at 1,125' and circulating cement back to surface.

4. CASING PROGRAM - NEW SEE COA

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF_{min} Collapse	DF_{min} Burst	DF_{min} Tension
14.75"	0 – ~~1,125'~~ 1025	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0-8,000'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
8.75"	8,000' – 10,900'	7.625"	29.7#	HCP-110	Ultra FJ	1.125	1.25	1.60
6.75"	0'-20,077'	5.5"	23#	HCP-110	ULT SFII	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint. SEE COA

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Cementing Program: SEE COA

Depth	No. Sacks	Wt. ppg	Yld Ft^3/ft	Mix Water Gal/sk	Slurry Description
10-3/4" ~~1,125'~~ 1025	325	13.5	1.73	9.13	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% $CaCl_2$ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 10,900'	750	9.0	2.50	9.06	Class C + 0.6% ASM-3 + 0.15% CDF-4P + 0.6% LTR + 0.5% SCA-6 + 0.13 pps LCL-11 + 0.13 pps LDP-c-0215
	500	12.5	1.71	9.06	Class C + 0.6% LTR + 0.5% SCA-6 + 0.6% ASM-3 + 0.15% CDF-4P + 0.13% LCL-11 + 0.13% LCF-7
	250	15.6	1.19	5.20	Class H + 0.2% ASM-3 + 0.3% SCA-6 + 0.65% LTR + 0.3% SPC-2
5-1/2" 20,077'	725	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17

LOW CEMENT SEE COA

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:

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

SEE COA

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and 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.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 5000/ 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 5000/ 250 psig and the annular preventer to 5000/ 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:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

1025

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – ~~1,125~~'	Fresh - Gel	8.6-8.8	28-34	N/c
~~1,1~~25' – 10,900'	Brine	8.8-10.0	28-34	N/c
10,900' – 20,077' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

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

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

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.

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

8. LOGGING, TESTING AND CORING PROGRAM:

SEE COA

Open-hole logs are not planned for this well.

GR–CCL Will be run in cased hole during completions phase of operations.

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

SEE COA

The estimated bottom-hole temperature (BHT) at TD is 182 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 7507 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. Severe loss circulation is expected from 7,300' to Intermediate casing point.

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.

SEE COA

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Prior to running the intermediate casing, the rams will be changed out to accommodate the 7-5/8" casing. The bonnet seals will be tested to 1500 psi. After installing the intermediate casing the casing rams will be removed and replaced with variable bore rams. The remaining BOPE will not be retested after installing the intermediate casing.

SEE COA

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

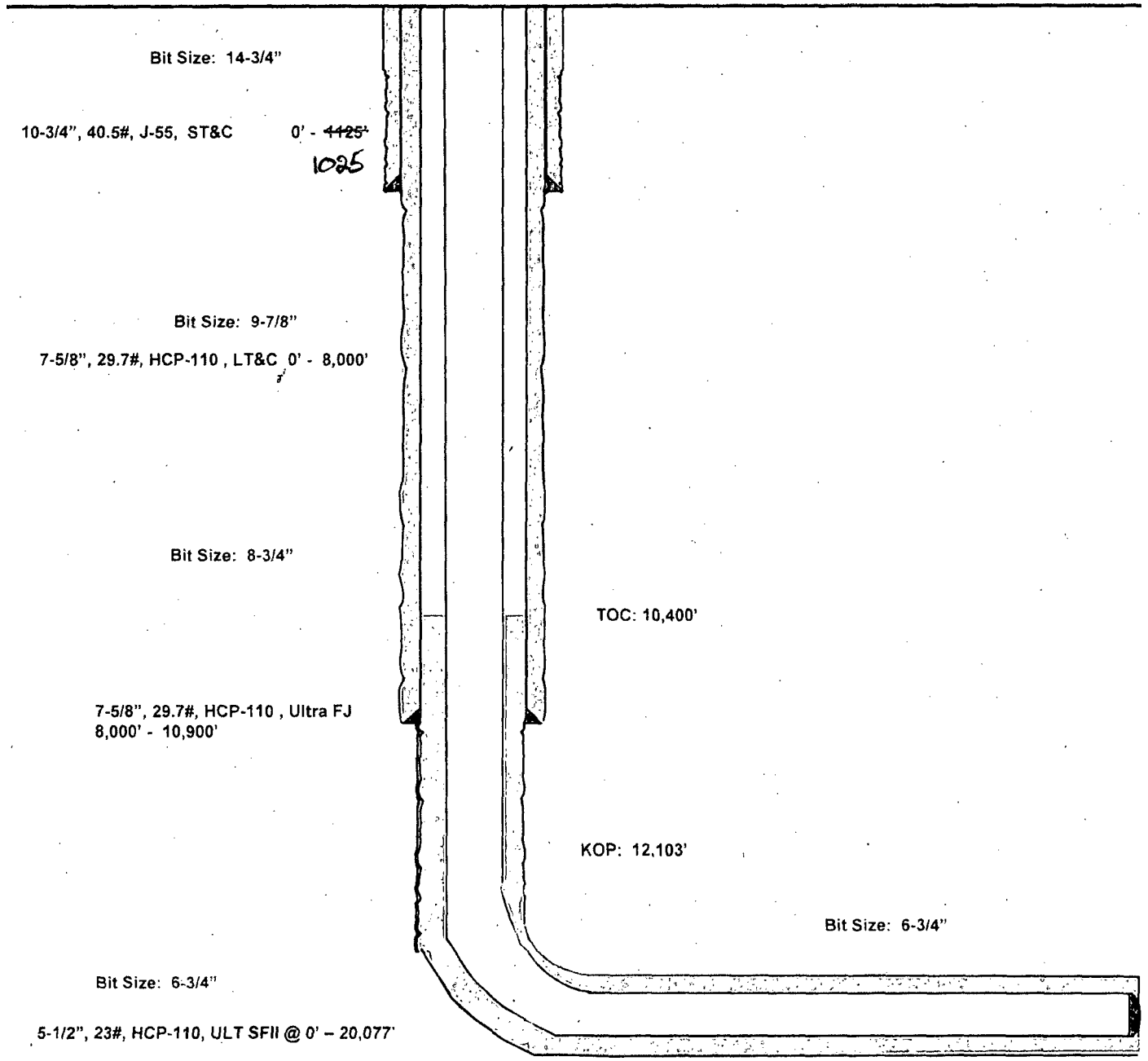
Wellhead drawing Attached.

Whirling Wind 11 Fed Com #703H

842' FSL
2395' FEL
Section 11
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 4/7/16
API: 30-025-***

KB: 3,375'
GL: 3,345'



Lateral: 20,077' MD, 12,555' TVD
Upper Most Perf:
330' FSL & 1650' FEL Sec. 11
Lower Most Perf:
2310' FSL & 1650' FWL Sec. 2
BH Location: 2410' FSL & 1650' FEL
Section 2
T-26-S, R-33-E

eog resources

Lea County, NM (NAD 27 NME)

Whirling Wind 11 Fed Com #703H

H&P 415

Plan #0.1

PROJECT DETAILS: Lea County, NM (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

Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.60°

Magnetic Field
Strength: 47931.3snT
Dip Angle: 59.92°
Date: 7/27/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.60°
To convert a Magnetic Direction to a True Direction, Add 7.02° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

WELL DETAILS: #703H

Ground Level: 3345.0
KB = 25 @ 3370.0usft (H&P 415)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	383871.00	745218.00	32° 3' 10.459 N	103° 32' 30.684 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	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	5346.1	8.46	138.55	5343.1	-46.7	41.3	1.00	138.55	-42.3	
4	12103.7	8.46	138.55	12027.1	-792.0	699.5	0.00	0.00	-717.4	
5	12906.8	90.00	359.58	12555.0	-317.1	747.6	12.00	-138.66	-240.1	
6	20077.1	90.00	359.58	12555.0	6853.0	695.0	0.00	0.00	6888.2	PBHL(WW 11 FC #703H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(WW 11 FC #703H)	12555.0	-507.0	749.0	383364.00	745965.00	Point
PBHL(WW 11 FC #703H)	12555.0	6853.0	695.0	390724.00	745911.00	Point