

Carlsbad Field Office OCD Artesia

Form 3160-3
(March 2012)

ATS-15-165

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement Name and No. Cotton Draw Unit NM70928X
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. Cotton Draw Unit 240H
2. Name of Operator Devon Energy Production Company, L.P.		9. API Well No. 30-015-43215
3a. Address 333 W. Sheridan Oklahoma City, OK 73102-5010	3b. Phone No. (include area code) 405.228.7203	10. Field and Pool, or Exploratory Paduca; Bone Spring (96641)
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 265 FNL & 1980 FWL, Unit C PP: 250 FNL & 1980 FWL At proposed prod. zone 330 FSL & 1980 FWL, Unit N		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 13 T2S5 31E
14. Distance in miles and direction from nearest town or post office* Approximately 20 miles SE of Malaga, NM		12. County or Parish Eddy County
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) See attached map		13. State NM
16. No. of acres in lease NMLC061862 - 1,720 ac	17. Spacing Unit dedicated to this well 160 ac	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See attached map	19. Proposed Depth TVD: 10,486' MD: 14,862'	20. BLM/BIA Bond No. on file CO-1104; NBM-000801
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3399.4' GL	22. Approximate date work will start* 08/15/2014	23. Estimated duration 45 Days
24. Attachments		

UNORTHODOX
LOCATION

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | <ul style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification 6. Such other site specific information and/or plans as may be required by the BLM. |
|---|---|

25. Signature 	Name (Printed/Typed) Trina C. Couch	Date 11/10/2014
Title Regulatory Analyst		
Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date JUN 26 2015
Title FIELD MANAGER		Office CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 01 2015

RECEIVED

7/16/2015

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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, 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 30-015-43215		² Pool Code 96641	³ Pool Name Paduca; Bone Spring
⁴ Property Code 300635	⁵ Property Name COTTON DRAW UNIT		⁶ Well Number 240H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3399.4

¹⁰ Surface Location

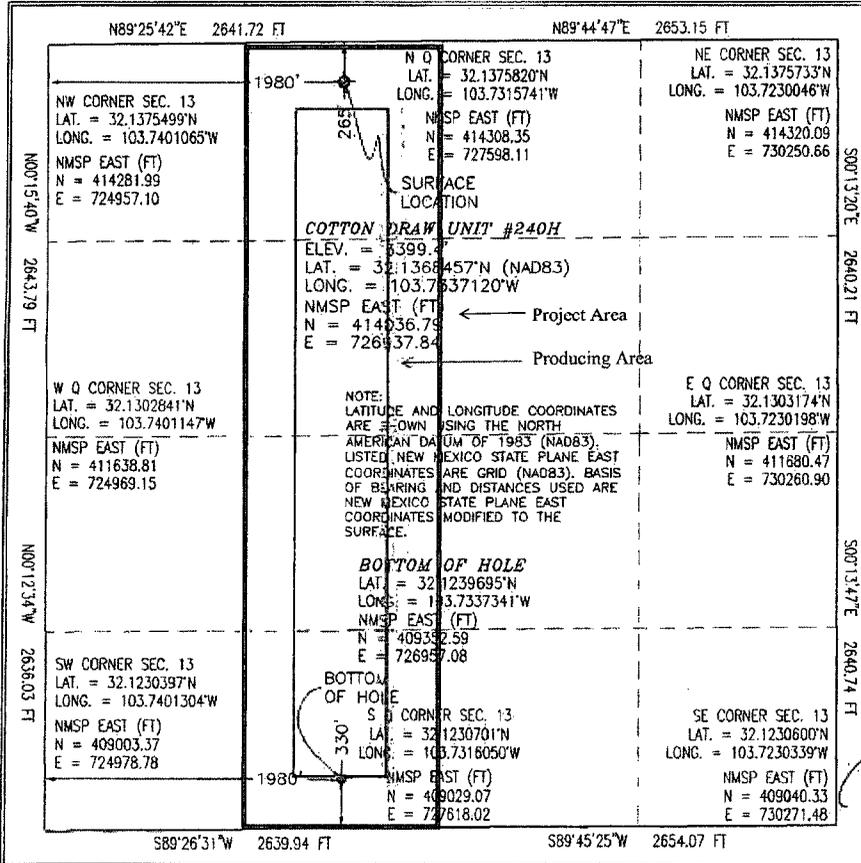
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	25 S	31 E		265	NORTH	1980	WEST	EDDY

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
N	13	25 S	31 E		330	SOUTH	1980	WEST	EDDY

¹² Dedicated Acres 160 ac	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.



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.

Trina C. Couch 11/6/14
Signature Date
Trina C. Couch, Regulatory Analyst
Printed Name
trina.couch@dmn.com
E-mail Address

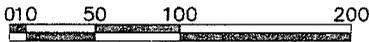
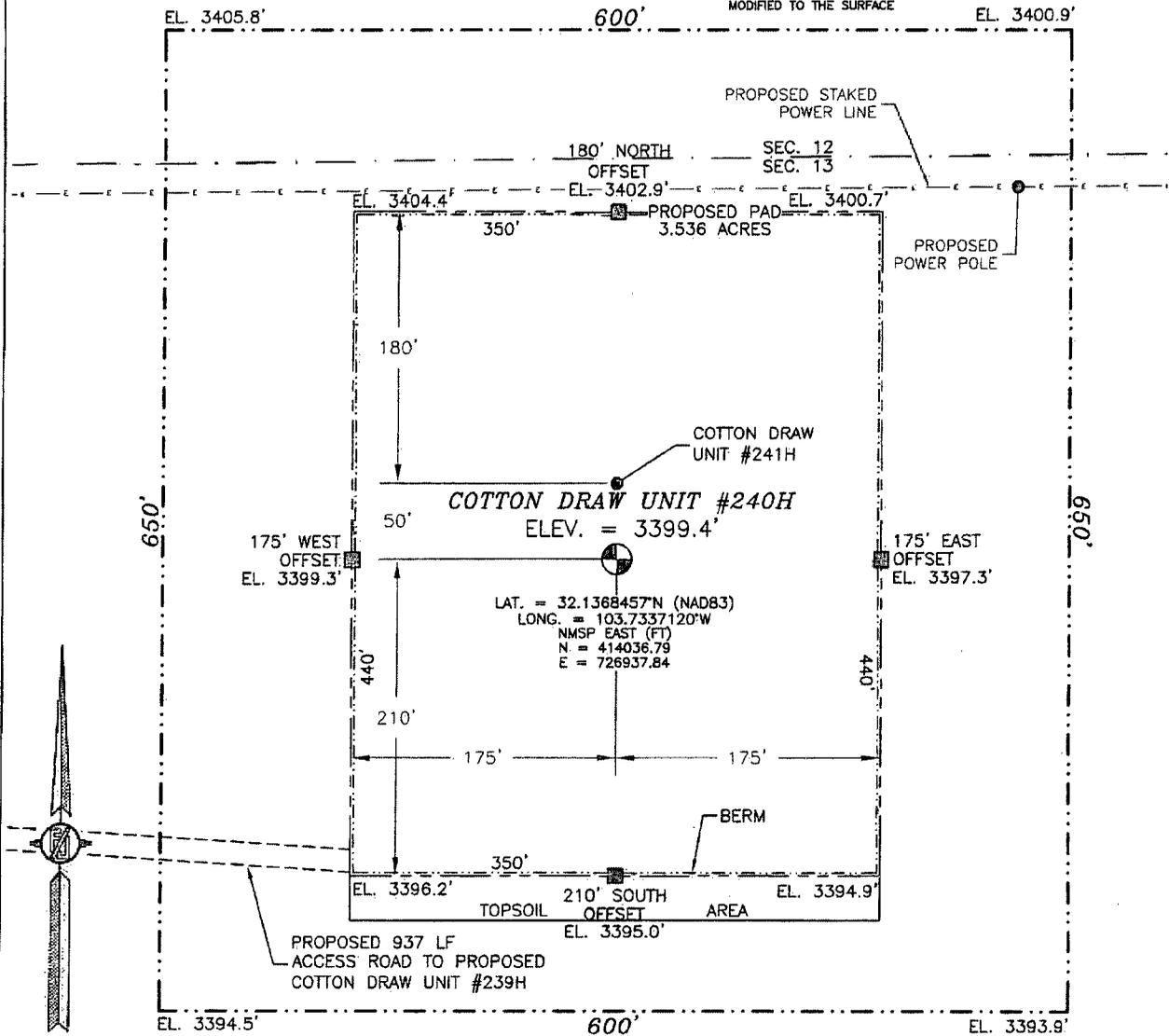
¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 12, 2011
Date of Survey
[Signature]
Signature and Seal of Professional Surveyor
Certificate Number: 1411104 F. JARAMILLO, PLS 12797
SURVEY NO. 2756

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



SCALE 1" = 100'

DIRECTIONS TO LOCATION
 FROM THE INTERSECTION OF STATE ROAD 128 AND CR 1 (ORLA ROAD) GO SOUTH ON CR 1 6.1 MILES TO MONSANTO ROAD A CALICHE ROAD ON RIGHT. GO WEST 2.1 MILES TO ROAD INTERSECTION, TURN RIGHT GO NORTH 0.75 MILES, THEN TURN LEFT GO WEST 2.0 MILES TO ROAD INTERSECTION, TURN RIGHT GO NORTH 0.2 MILES TO PROPOSED ROAD ON RIGHT, FOLLOW FLAGS EAST 1762'.

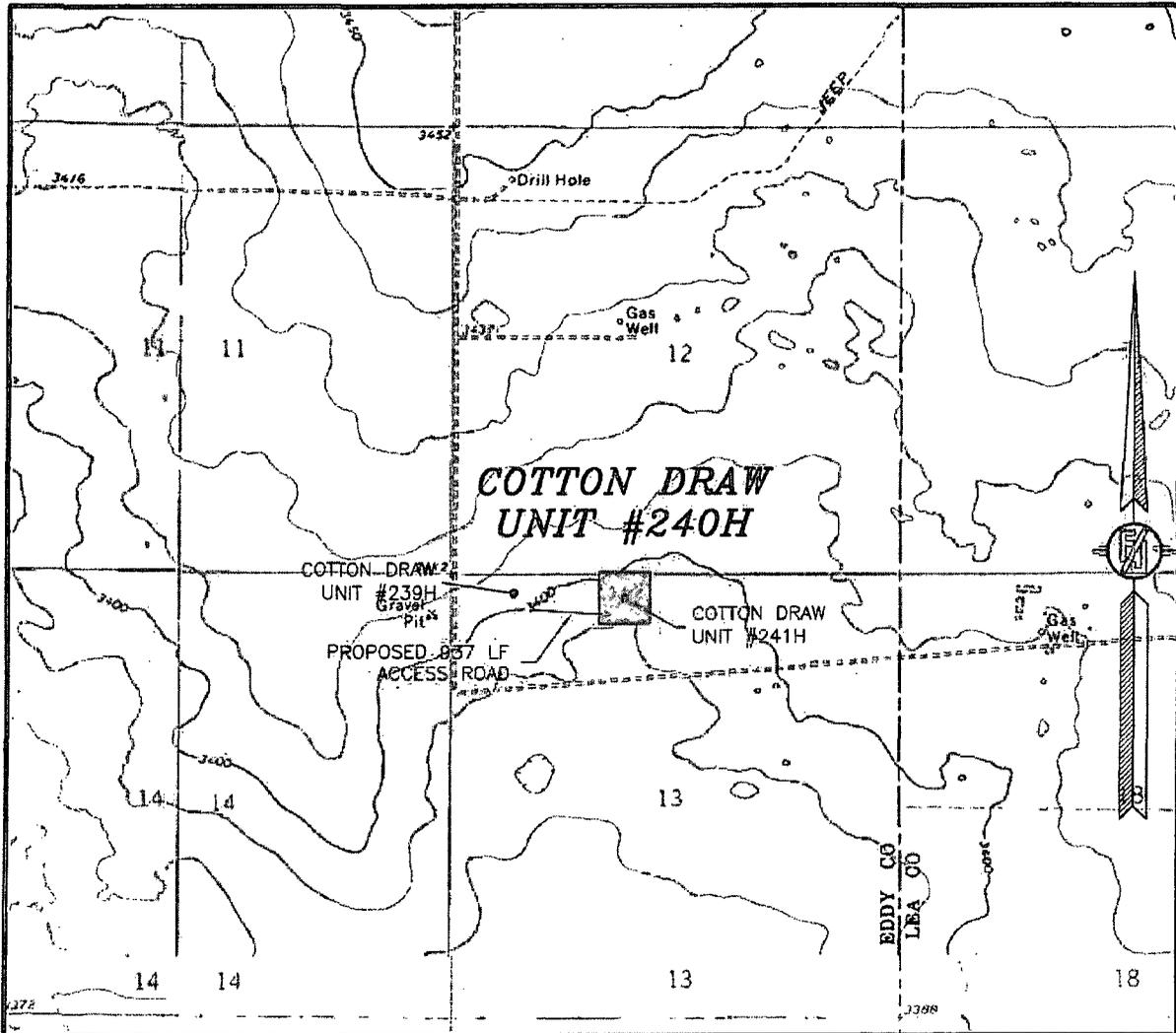
DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #240H
 LOCATED 265 FT. FROM THE NORTH LINE
 AND 1980 FT. FROM THE WEST LINE OF
 SECTION 13, TOWNSHIP 25 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 12, 2014

SURVEY NO. 2756

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 PADUCA BREAKS NW

NOT TO SCALE

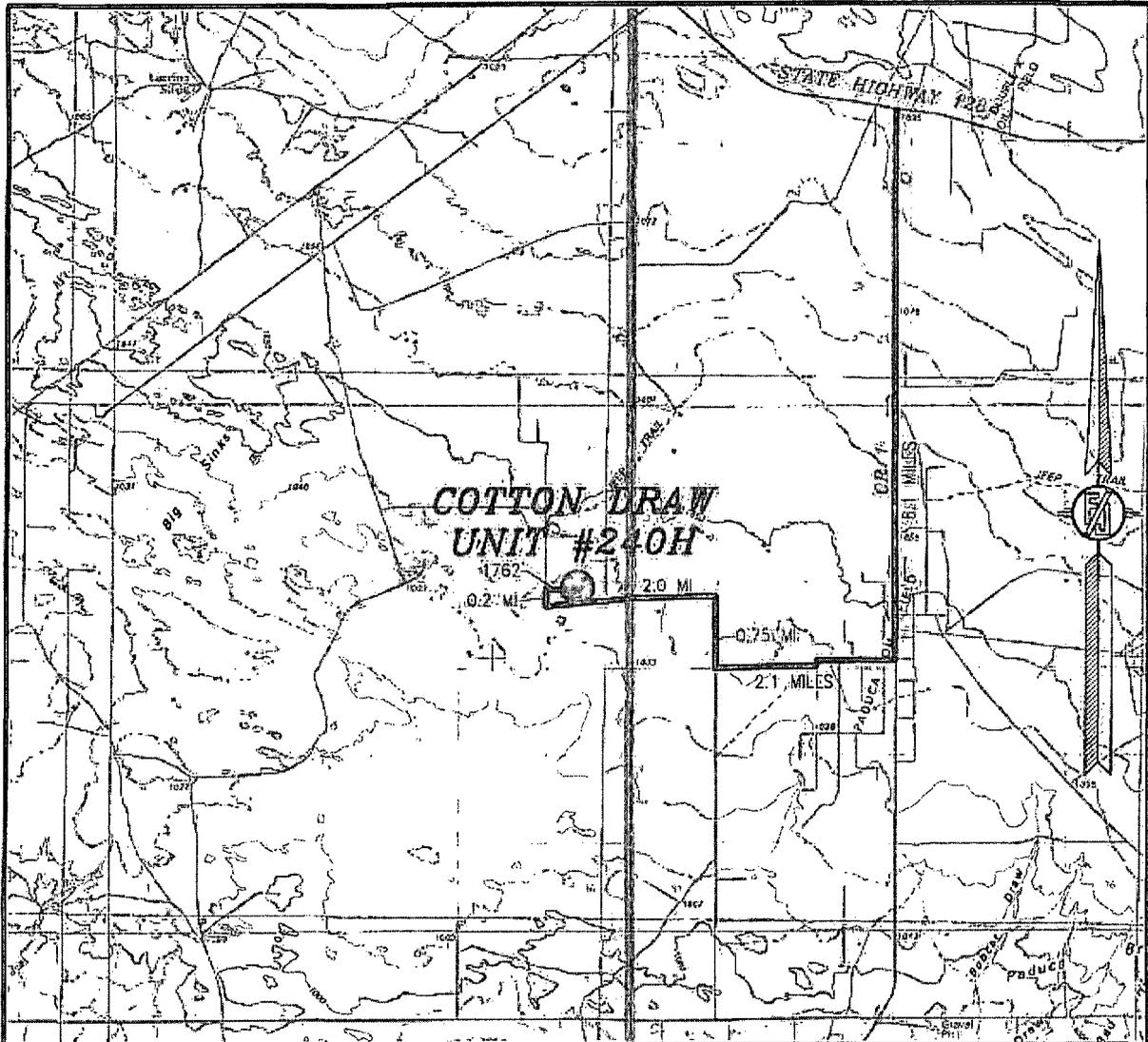
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 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 12, 2014

SURVEY NO. 2756

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #240H

LOCATED 265 FT. FROM THE NORTH LINE
 AND 1980 FT. FROM THE WEST LINE OF
 SECTION 13, TOWNSHIP 25 SOUTH,
 RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

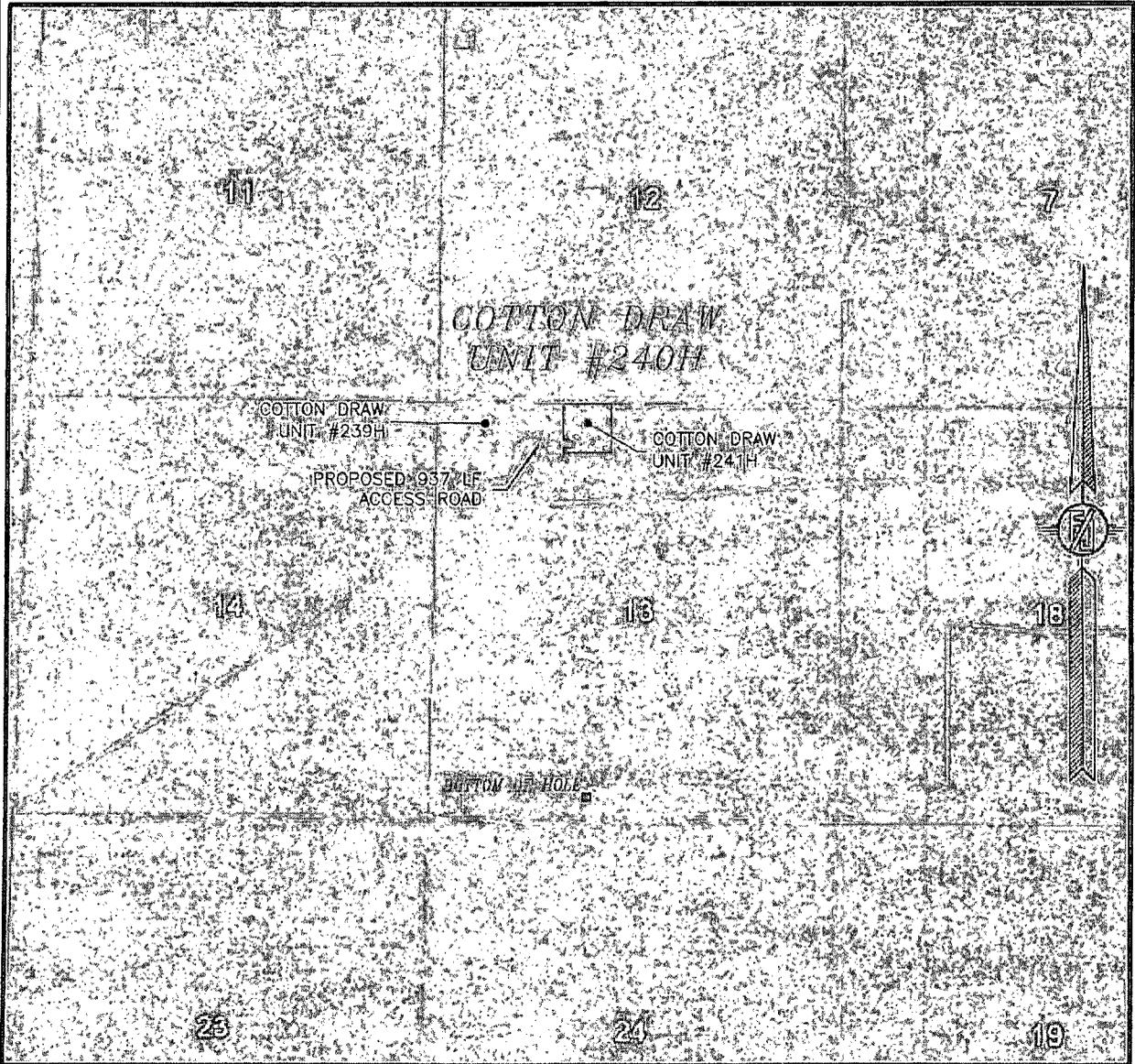
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MARCH 12, 2014

SURVEY NO. 2756

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

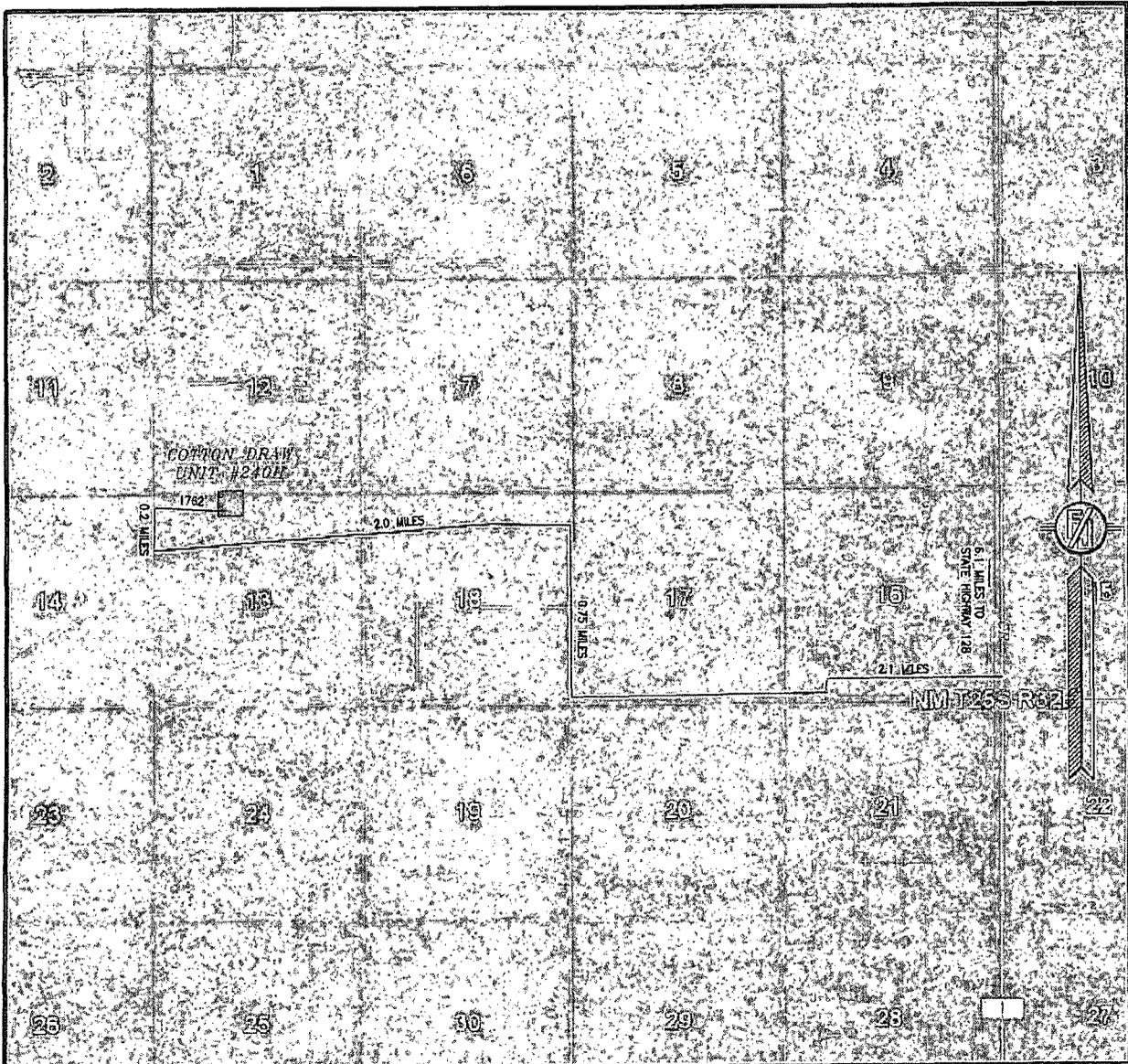
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SECTION 13, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 12, 2014

SURVEY NO. 2756

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 ACCESS AERIAL ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 APRIL 2013

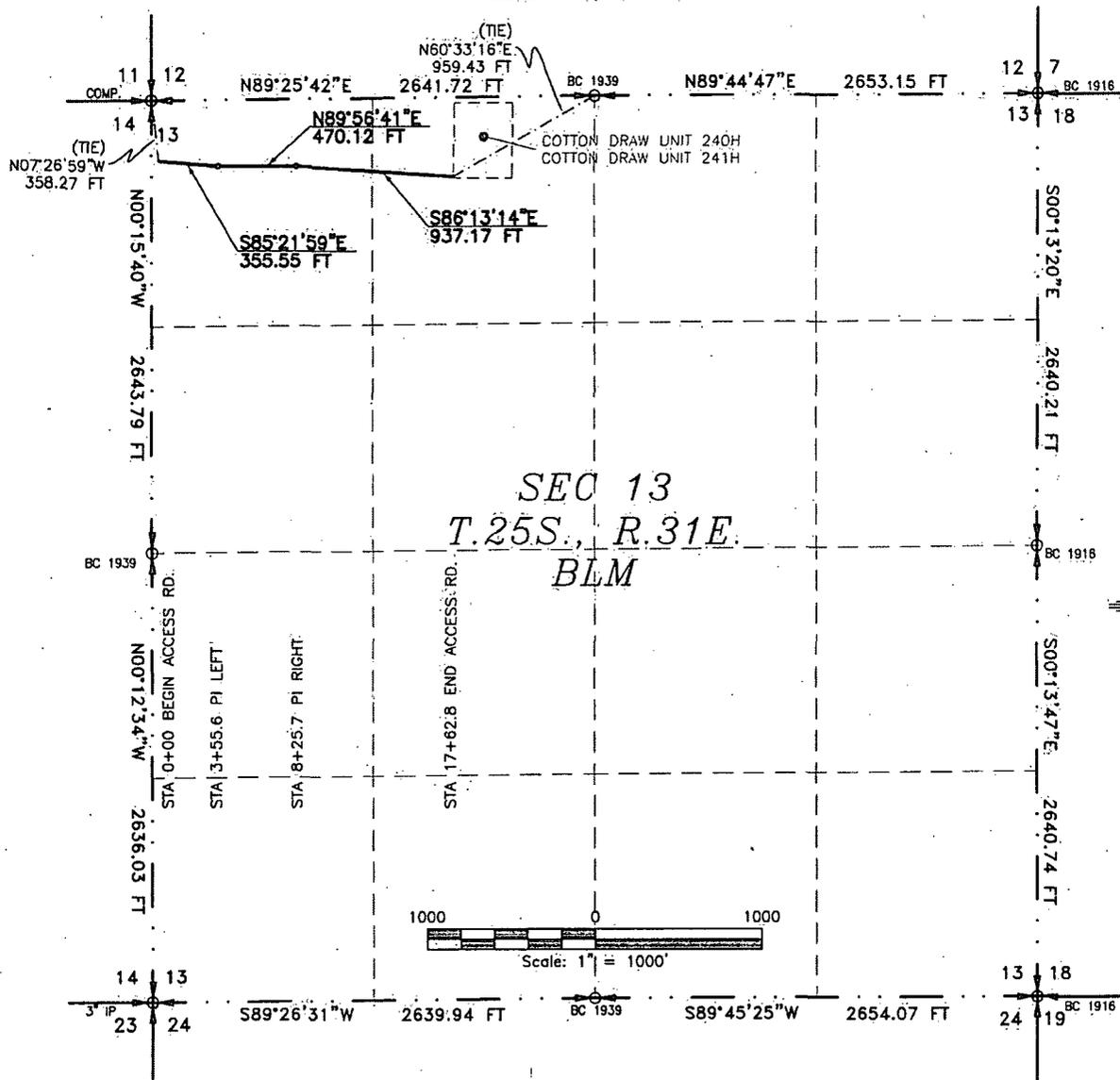
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 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 12, 2014

SURVEY NO. 2756

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

ACCESS ROAD PLAT
 ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H
DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 MAY 13, 2015



SEE NEXT SHEET (2-4) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13 DAY OF MAY 2015


 FILIMON F. JARAMILLO P.E.S. 12797

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341 **SURVEY NO. 3981**

ACCESS ROAD PLAT
ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N07°26'59"W, A DISTANCE OF 358.27 FEET;

THENCE S85°21'59"E A DISTANCE OF 355.55 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N89°56'41"E A DISTANCE OF 470.12 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S86°13'14"E A DISTANCE OF 937.17 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N60°33'16"E, A DISTANCE OF 959.43 FEET;

SAID STRIP OF LAND BEING 1762.84 FEET OR 106.84 RODS IN LENGTH, CONTAINING 0.809 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4	1278.26 L.F.	77.47 RODS	0.587 ACRES
NE/4 NW/4	484.58 L.F.	29.37 RODS	0.222 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13th DAY OF MAY 2015

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

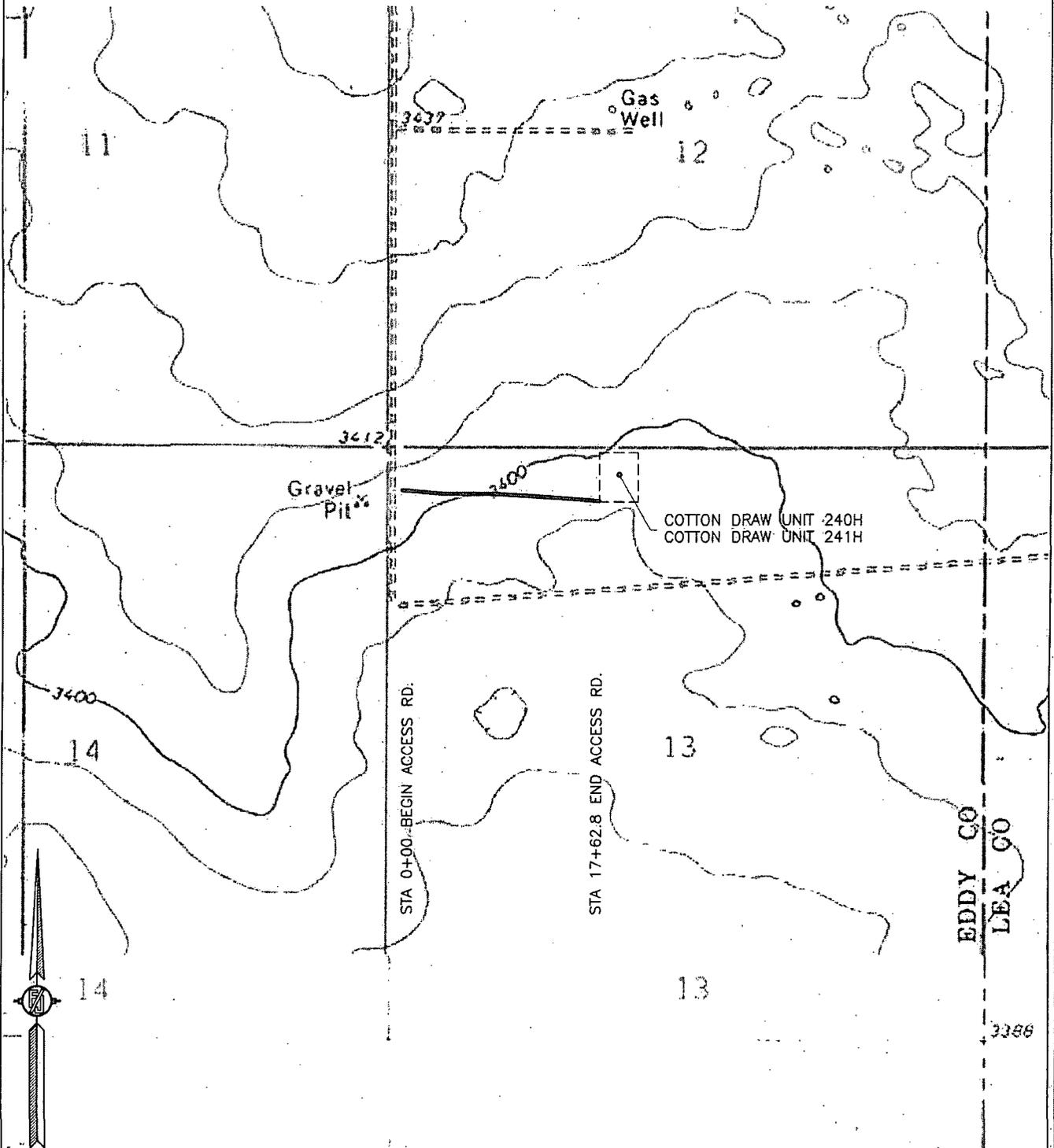
SHEET: 2-4

MADRON SURVEYING, INC. 001 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SURVEY NO. 3981

MADRON SURVEYING, INC.
201 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

ACCESS ROAD PLAT
 ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H
DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 MAY 13, 2015



SHEET: 3-4

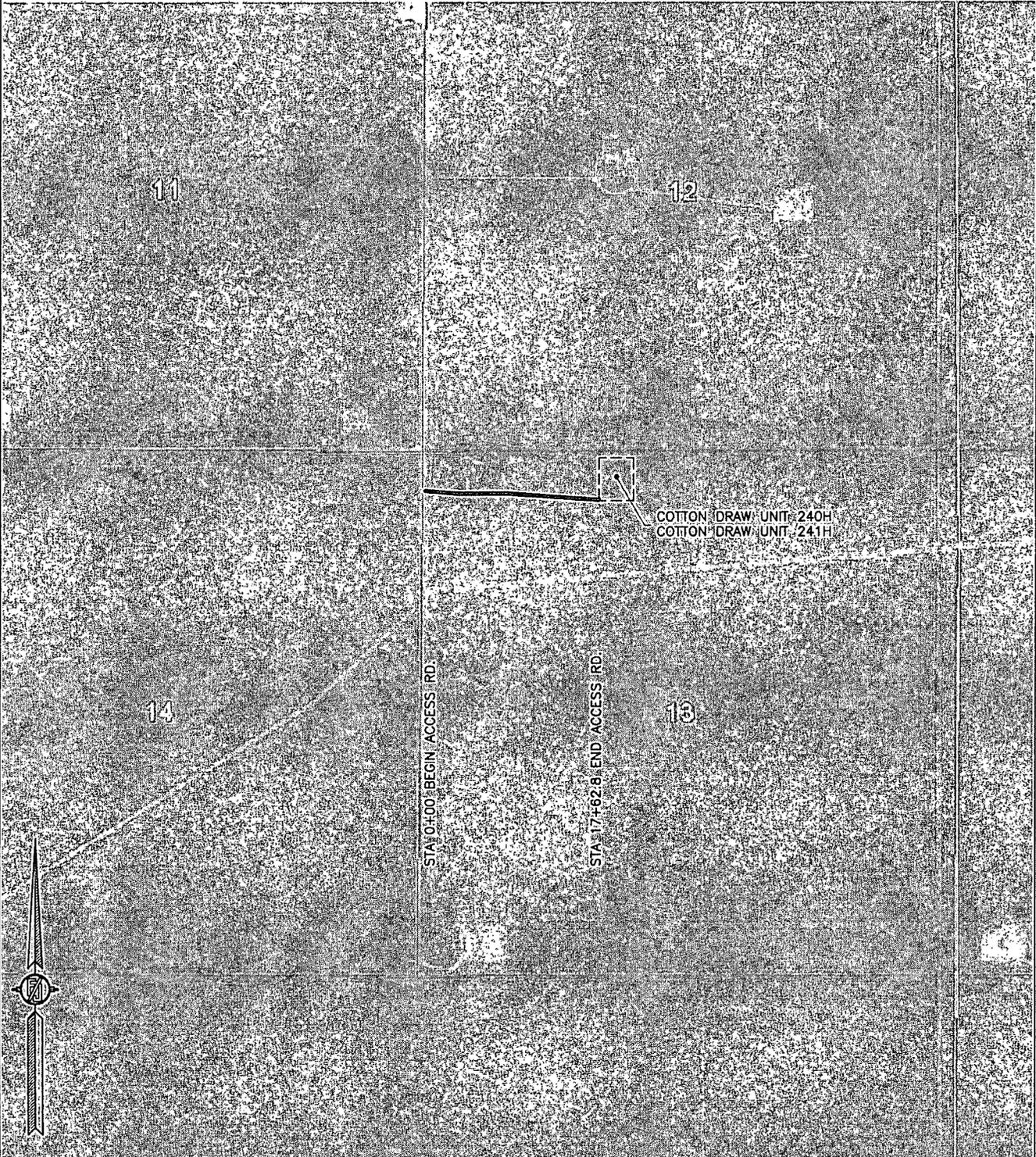
SURVEY NO. 3981

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015

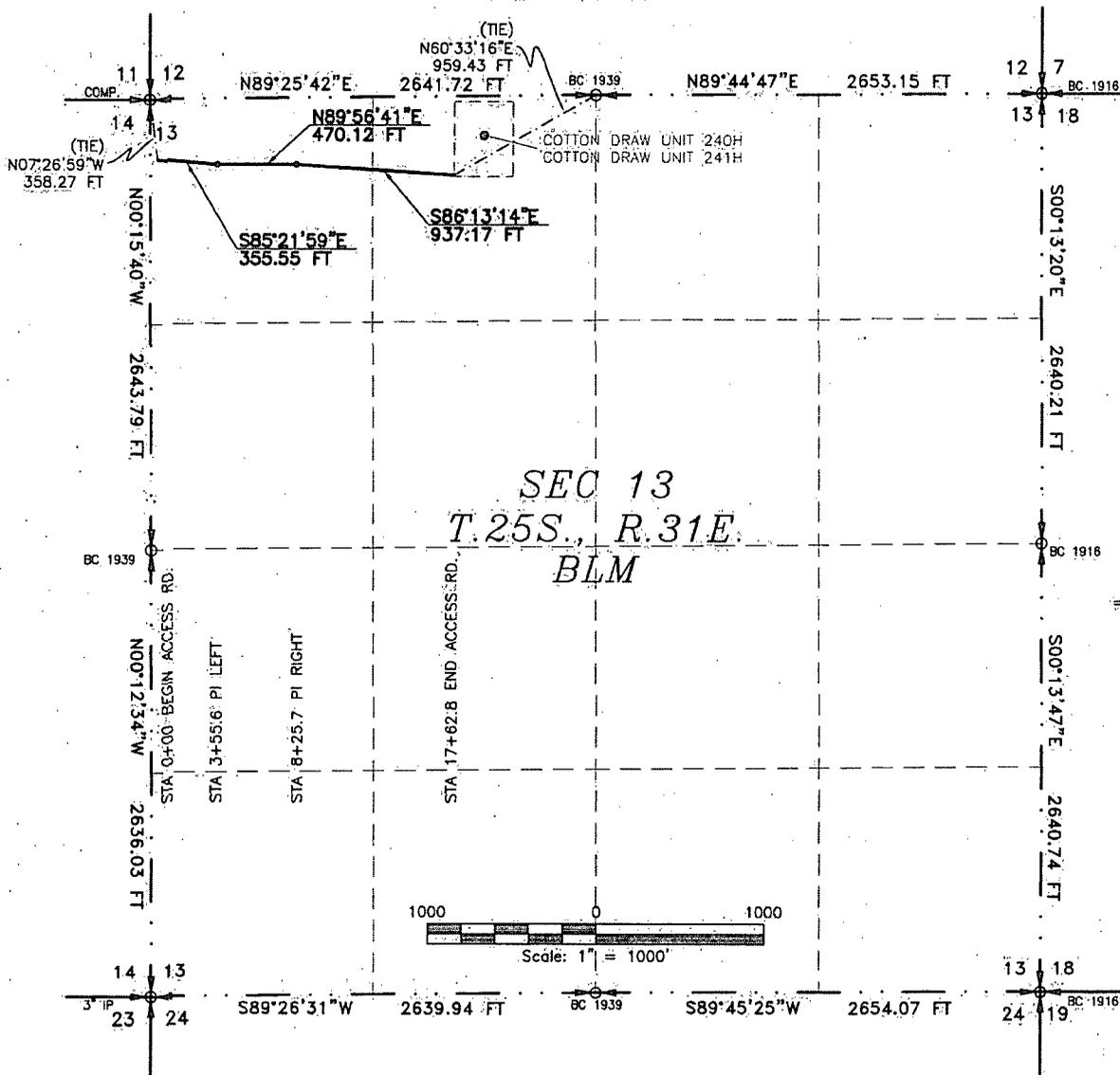


SHEET: 4-4

SURVEY NO. 3981

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

ACCESS ROAD PLAT
 ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H
 DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 MAY 13, 2015



SEE NEXT SHEET (2-4) FOR DESCRIPTION

SURVEYOR CERTIFICATE

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IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13 DAY OF MAY 2015

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.


 FILIMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SHEET: 1-4

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 3981

ACCESS ROAD PLAT

ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N07°26'59"W, A DISTANCE OF 358.27 FEET;

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IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14 DAY OF MAY 2015

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

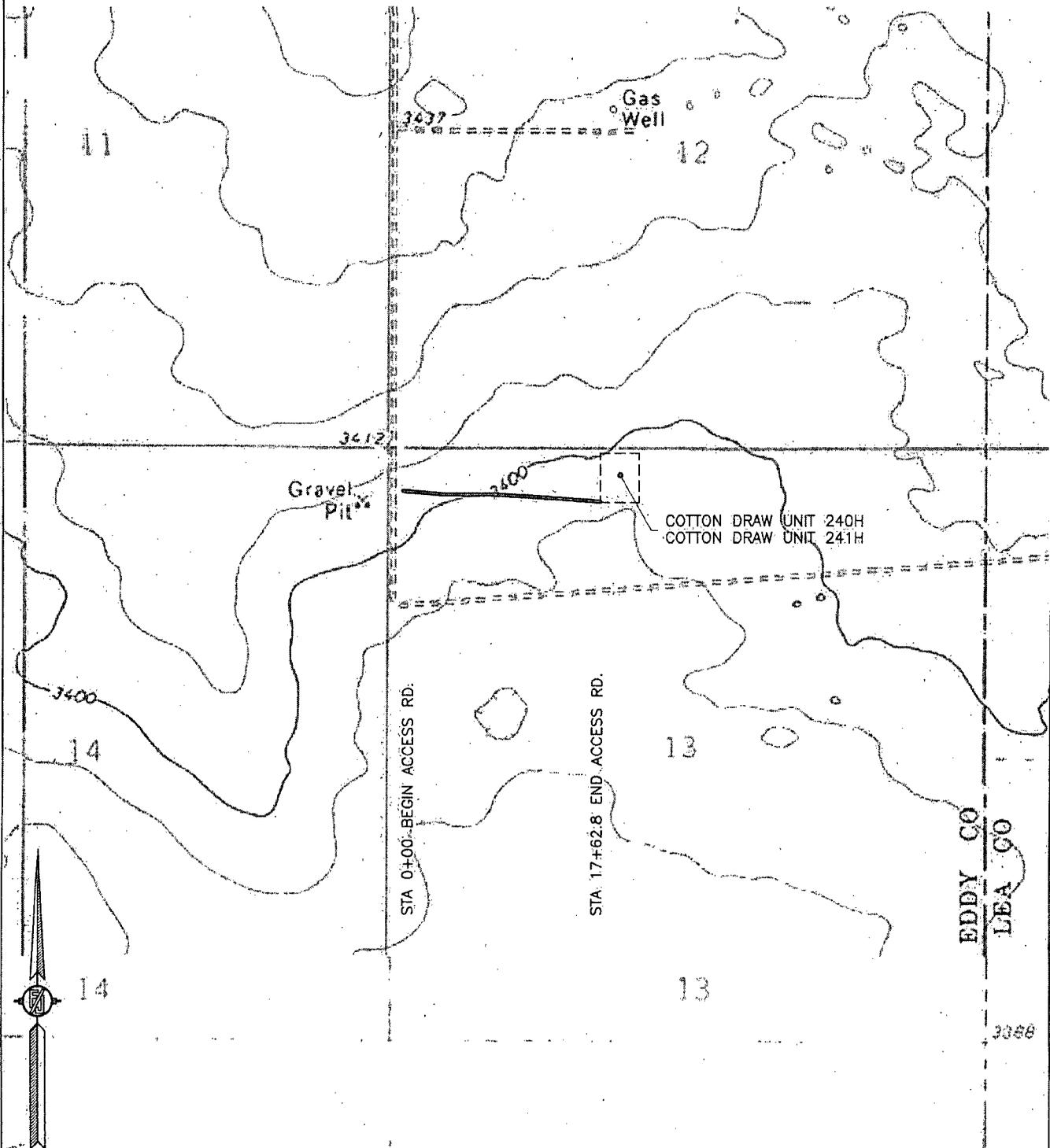
Filimon F. Jaramillo
 FILIMON F. JARAMILLO PLS-12797
 MADRON SURVEYING, INC.
 2011 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SHEET: 2-4

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO SURVEY NO. 3981

ACCESS ROAD FLAT
ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015



SHEET: 3-4

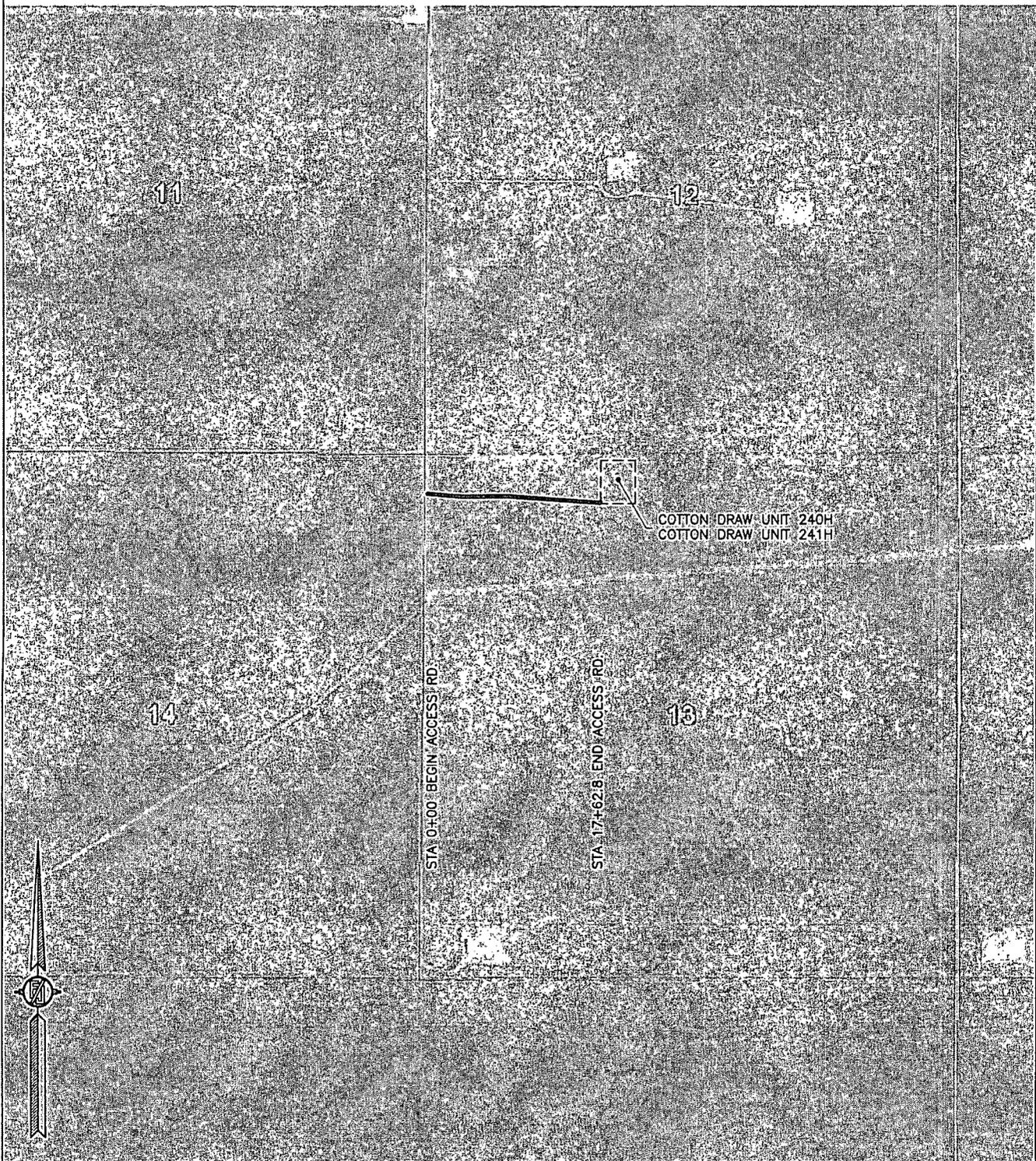
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SURVEY NO. 3981

ACCESS ROAD PLAT

ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

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CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015



SHEET: 4-4

SURVEY NO. 3981

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 993-6161 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 87503
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, 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	
4 Property Code		5 Property Name COTTON DRAW UNIT		6 Well Number 240H	
7 OGRID No. 6137		8 Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		9 Elevation 3399.4	

10 Surface Location

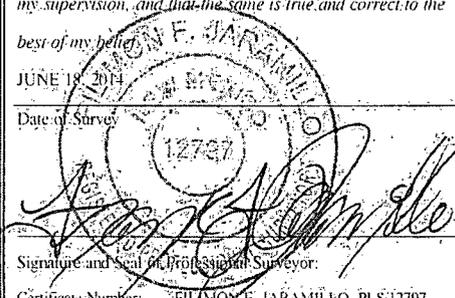
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	25 S	31 E		265	NORTH	1980	WEST	EDDY

11 Bottom Hole Location If Different From Surface

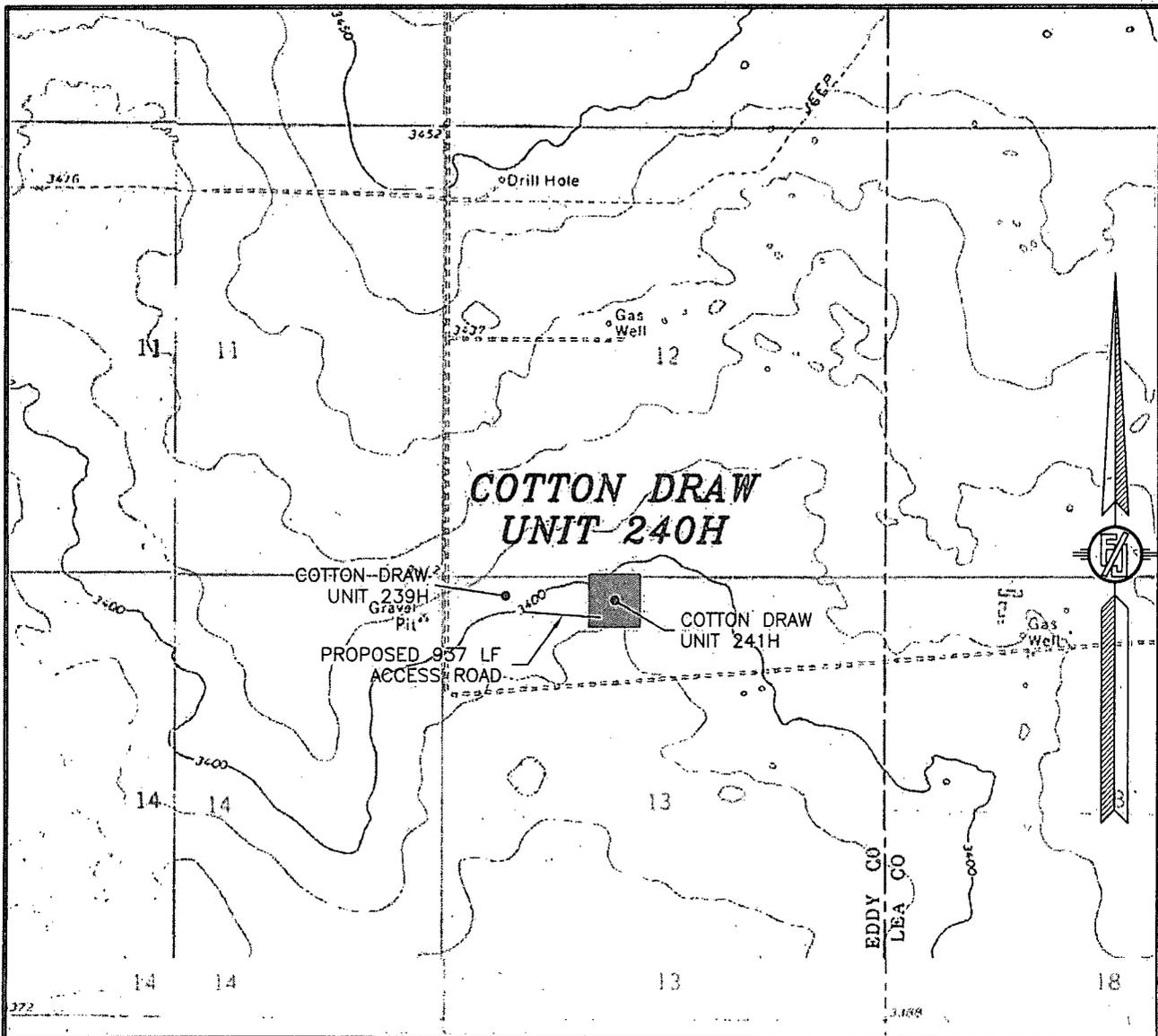
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	25 S	31 E		330	SOUTH	1980	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------	--------------------	-----------------------	--------------

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.

<p>N 89°25'42"E 2841.72 FT</p> <p>N 89°44'47"E 2653.15 FT</p> <p>NW CORNER SEC. 13 LAT. = 32.1375499°N LONG. = 103.7401065°W NMSP EAST (FT) N = 414281.99 E = 724957.10</p> <p>W Q CORNER SEC. 13 LAT. = 32.1302841°N LONG. = 103.7401147°W NMSP EAST (FT) N = 411638.81 E = 724969.15</p> <p>SW CORNER SEC. 13 LAT. = 32.1230397°N LONG. = 103.7401304°W NMSP EAST (FT) N = 409003.37 E = 724978.78</p> <p>S 89°26'31"W 2639.94 FT</p>	<p>1980'</p> <p>592'</p> <p>SURFACE LOCATION</p> <p>COTTON DRAW UNIT 240H ELEV. = 3399.4 LAT. = 32.1368457°N (NAD83) LONG. = 103.7337120°W NMSP EAST (FT) N = 414036.79 E = 726937.84</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83) BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.</p> <p>BOTTOM OF HOLE LAT. = 32.1239695°N LONG. = 103.7337341°W NMSP EAST (FT) N = 409352.59 E = 726957.08</p> <p>BOTTOM OF HOLE S Q CORNER SEC. 13 LAT. = 32.1230701°N LONG. = 103.7316050°W NMSP EAST (FT) N = 409029.07 E = 727618.02</p> <p>302'</p>	<p>NE CORNER SEC. 13 LAT. = 32.1375733°N LONG. = 103.7230046°W NMSP EAST (FT) N = 414320.09 E = 730250.66</p> <p>E Q CORNER SEC. 13 LAT. = 32.1303174°N LONG. = 103.7230198°W NMSP EAST (FT) N = 411680.47 E = 730260.90</p> <p>SE CORNER SEC. 13 LAT. = 32.1230600°N LONG. = 103.7230339°W NMSP EAST (FT) N = 409040.33 E = 730271.48</p> <p>S 89°45'25"W 2654.07 FT</p>	<p>16 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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>	
	<p>N 00°15'40"W 2643.79 FT</p>	<p>5001320'E 2640.21 FT</p>	<p>5001320'E 2640.21 FT</p>	<p>17 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.</p> <p>WILLIAM F. JARAMILLO JUNE 18, 2011 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: WILLIAM F. JARAMILLO, PLS 12787</p>
	<p>N 00°12'34"W 2636.03 FT</p>	<p>5001347'E 2640.74 FT</p>	<p>5001347'E 2640.74 FT</p>	<p>SURVEY NO. 2756A</p>

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 PADUCA BREAKS NW

NOT TO SCALE

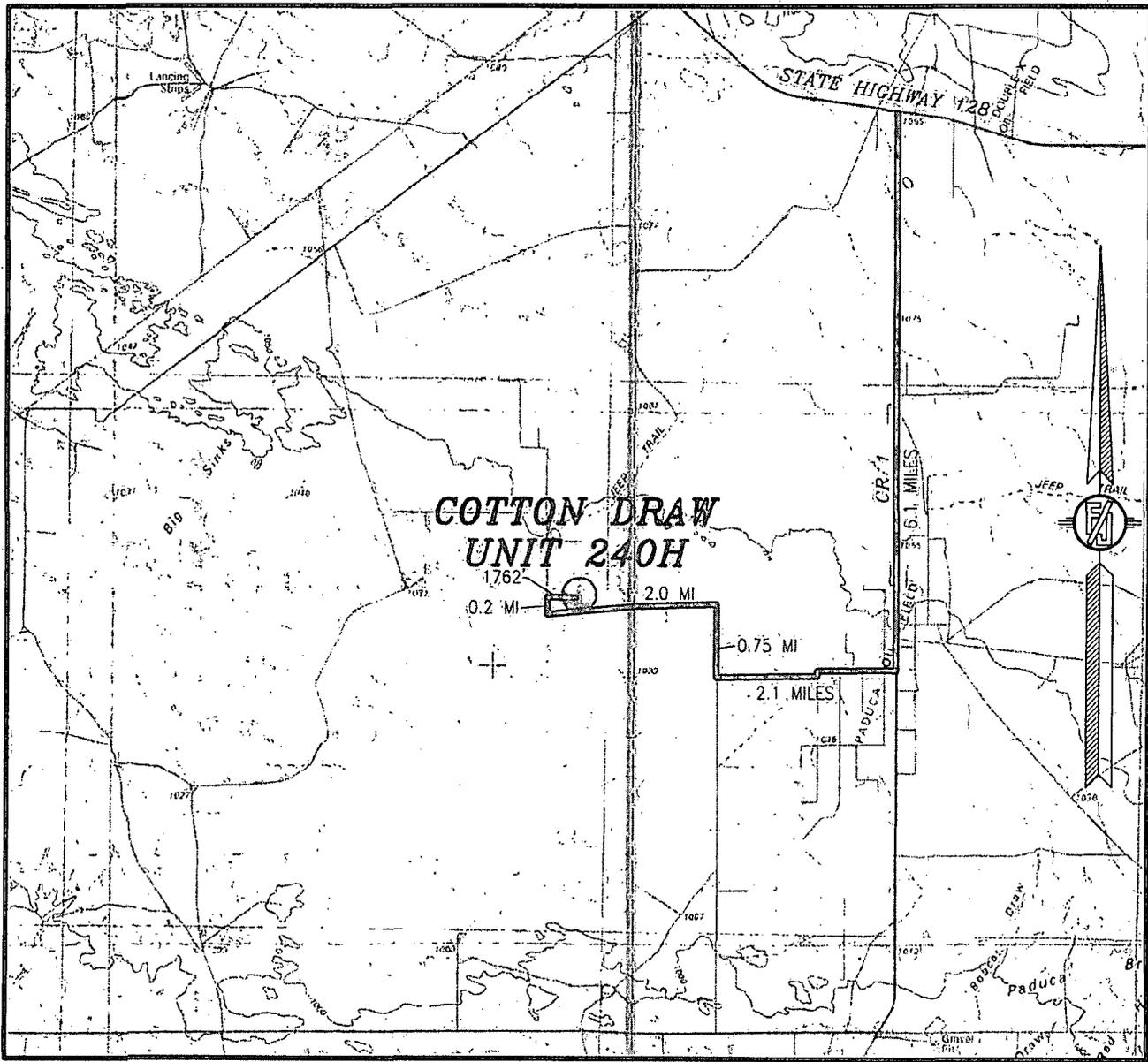
DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 240H
 LOCATED 265 FT. FROM THE NORTH LINE
 AND 1980 FT. FROM THE WEST LINE OF
 SECTION 13, TOWNSHIP 25 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2015

SURVEY NO. 2756A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 240H

LOCATED 265 FT. FROM THE NORTH LINE
 AND 1980 FT. FROM THE WEST LINE OF
 SECTION 13, TOWNSHIP 25 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

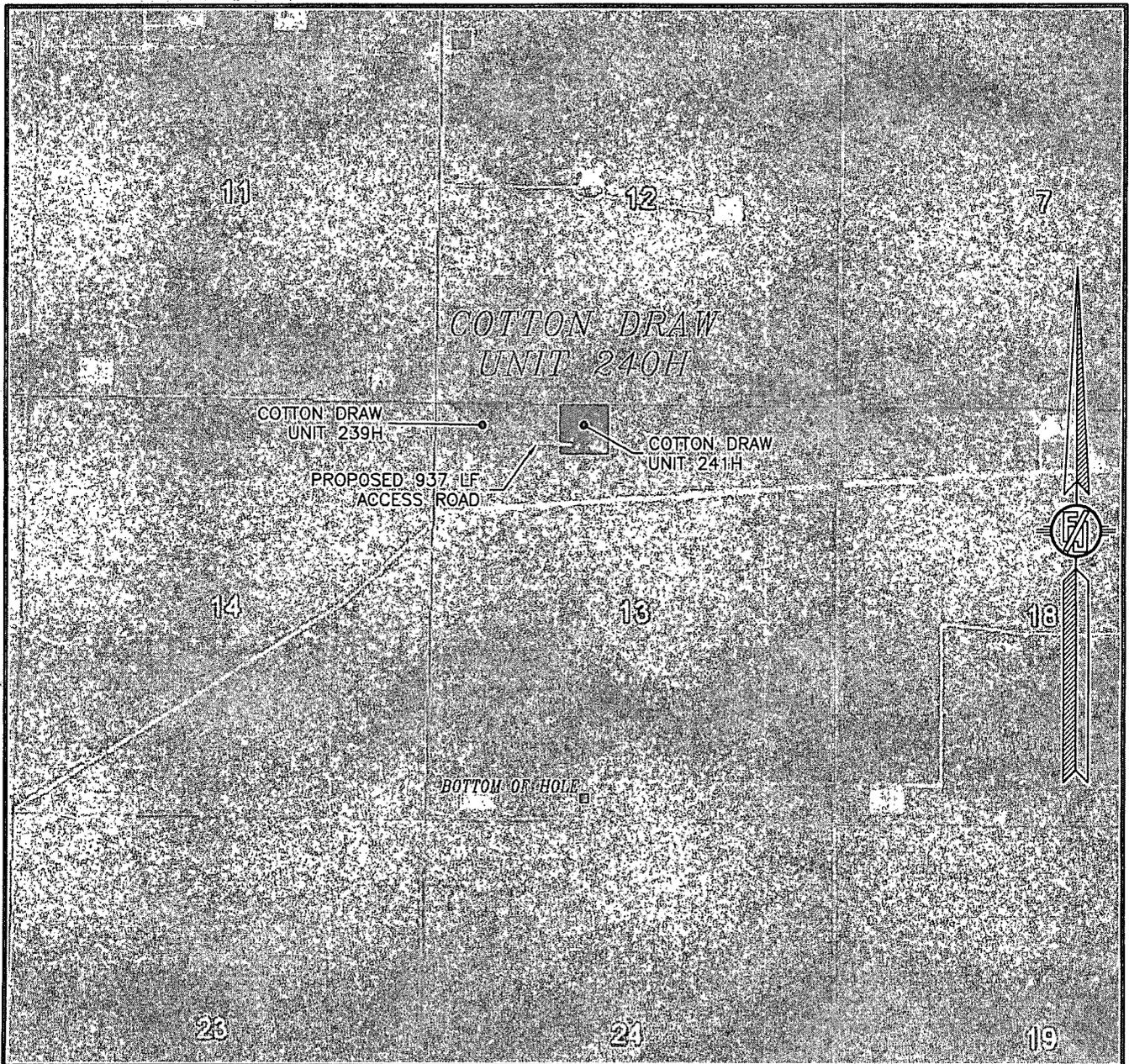
FROM THE INTERSECTION OF STATE ROAD 128 AND CR 1 (ORLA ROAD) GO SOUTH ON CR 1 6.1 MILES TO MONSANTO ROAD A CALICHE ROAD ON RIGHT. GO WEST 2.1 MILES TO ROAD INTERSECTION, TURN RIGHT GO NORTH 0.75 MILES, THEN TURN LEFT GO WEST 2.0 MILES TO ROAD INTERSECTION, TURN RIGHT GO NORTH 0.2 MILES TO PROPOSED ROAD ON RIGHT, FOLLOW FLAGS EAST 1762'

JUNE 18, 2015

SURVEY NO. 2756A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

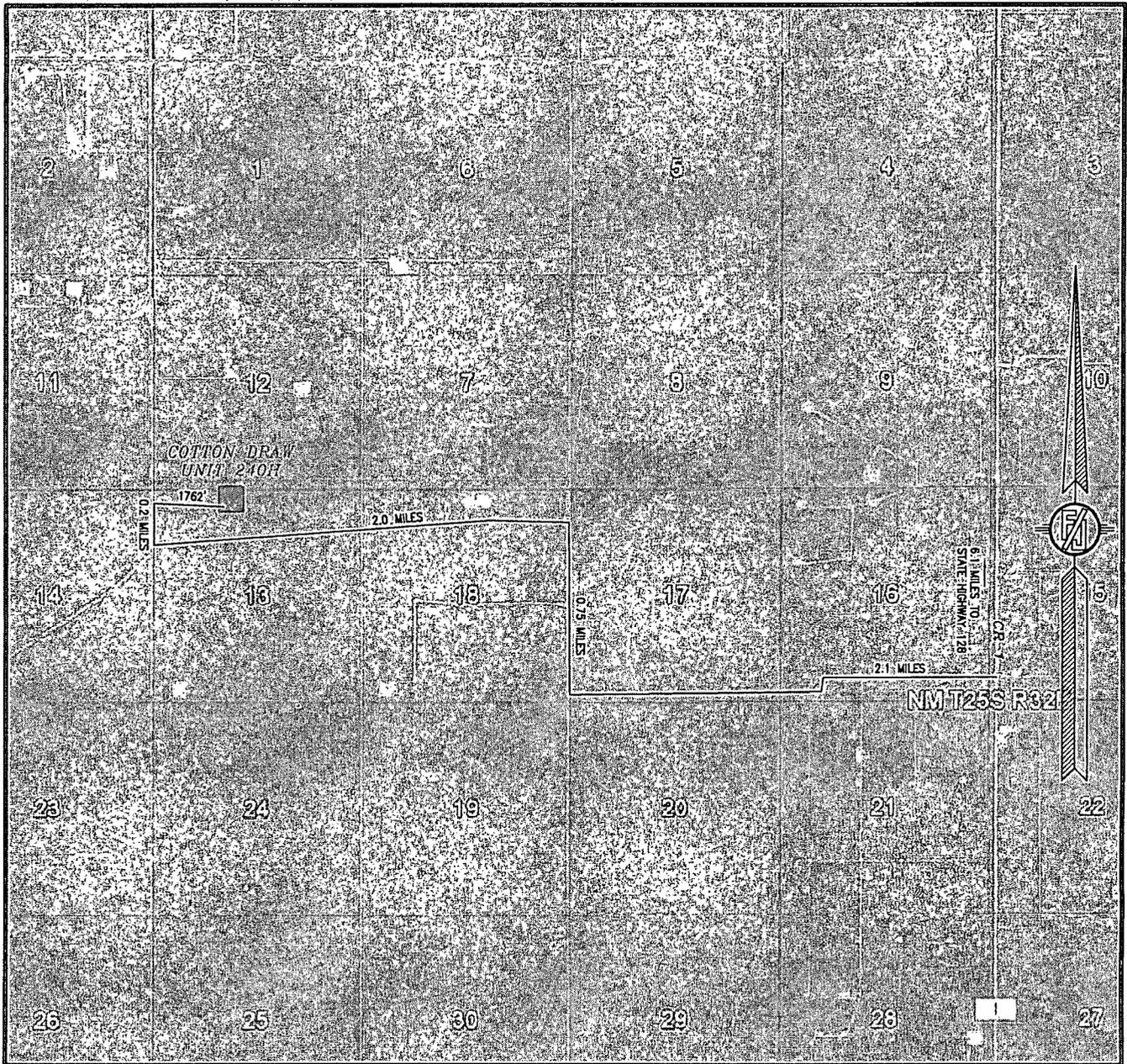
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EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2015

SURVEY NO. 2756A

MADRON SURVEYING, INC. .301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 ACCESS AERIAL ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 240H
 LOCATED 265 FT. FROM THE NORTH LINE
 AND 1980 FT. FROM THE WEST LINE OF
 SECTION 13, TOWNSHIP 25 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 18, 2015

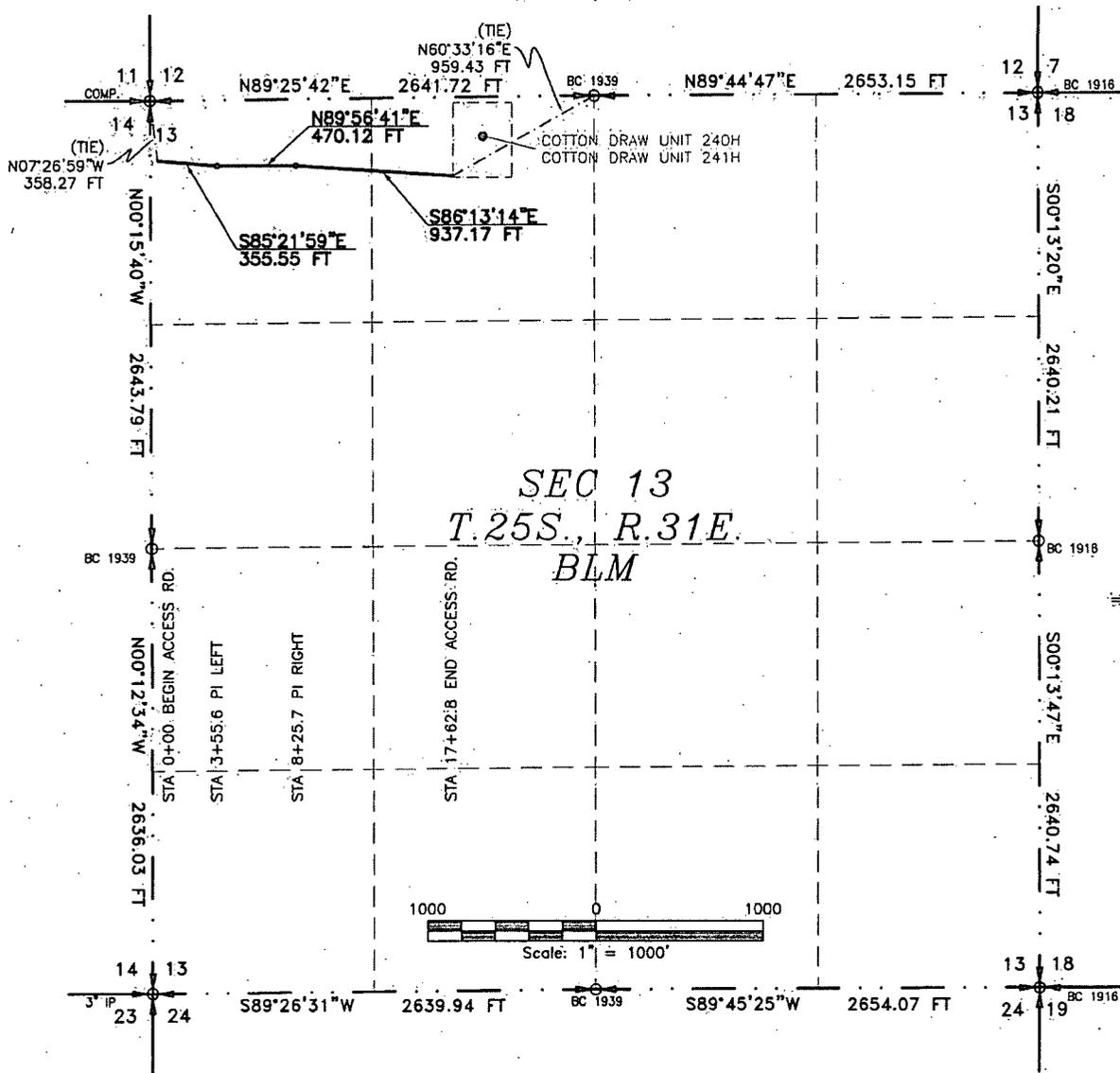
SURVEY NO. 2756A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

ACCESS ROAD PLAT

ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 MAY 13, 2015



SEC 13
 T. 25S., R. 31E.
 BLM



SEE NEXT SHEET (2-4) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13 DAY OF MAY 2015

Filmon F. Jaramillo
 FILMON F. JARAMILLO P.E.S. 12797

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341 SURVEY NO. 3981

ACCESS ROAD PLAT

ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N07°26'59"W, A DISTANCE OF 358.27 FEET;

THENCE S85°21'59"E A DISTANCE OF 355.55 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N89°56'41"E A DISTANCE OF 470.12 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S86°13'14"E A DISTANCE OF 937.17 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N60°33'16"E, A DISTANCE OF 959.43 FEET;

SAID STRIP OF LAND BEING 1762.84 FEET OR 106.84 RODS IN LENGTH, CONTAINING 0.809 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 1278.26 L.F. 77.47 RODS 0.587 ACRES
NE/4 NW/4 484.58 L.F. 29.37 RODS 0.222 ACRES

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14 DAY OF MAY 2015

FILMON F. JARAMILLO, P.S. 12797
MADRON SURVEYING, INC.
801 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

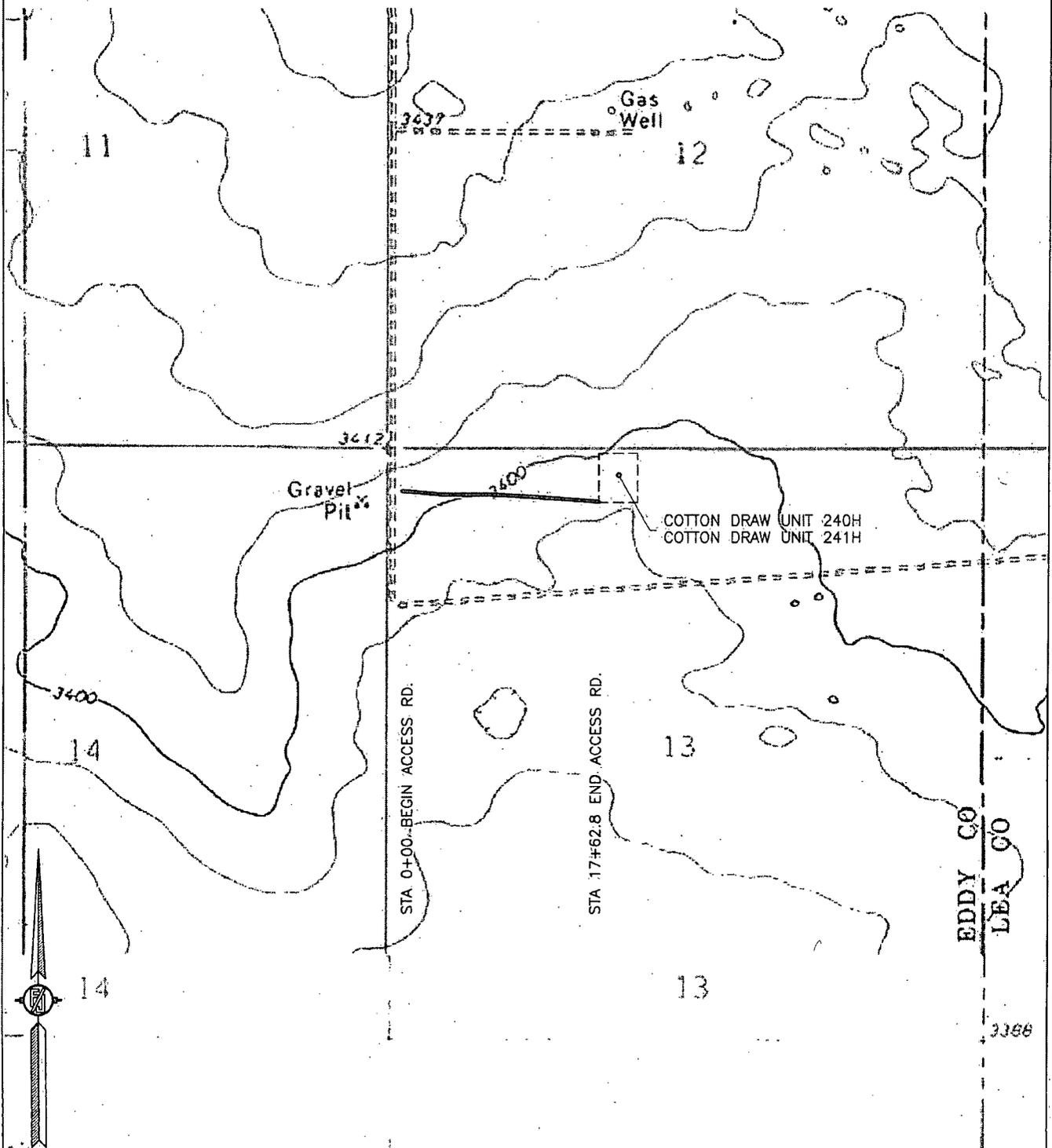
SHEET: 2-4

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO SURVEY NO. 3981

801 SOUTH CANAL
(575) 234-3341

ACCESS ROAD PLAT
ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015



SHEET: 3-4

MADRON SURVEYING, INC.

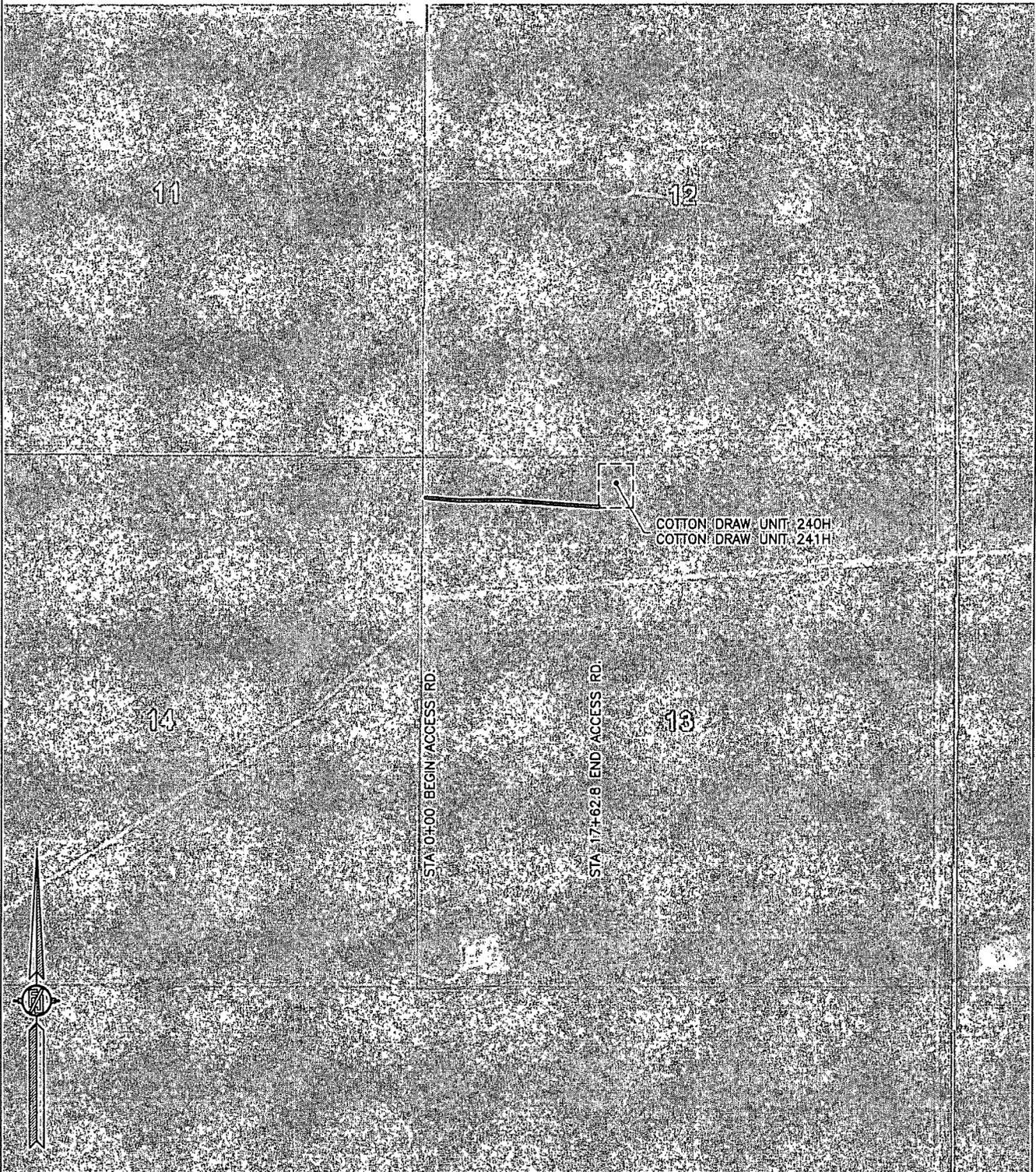
301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 3981

ACCESS ROAD PLAT
ACCESS ROAD TO THE COTTON DRAW UNIT 240H & COTTON DRAW UNIT 241H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 13, 2015



SHEET 4-4

SURVEY NO. 3981

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

Devon Energy, Cotton Draw Unit 240H

1. Geologic Formations

TVD of target	10486	Pilot hole depth	N/A
MD at TD:	14862	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	599	Water	
Top of Salt	994	Salt	
Castile	2800	Barren	
Bell Canyon	4407	Oil/Gas	
Cherry Canyon	5296	Oil/Gas	
Bushy Canyon	6621	Oil/Gas	
1 st Bone Spring Lime	8203	Target Zone	
1 st Bone Spring Sand	9334	Target Zone	
2 nd Bone Spring Lime	9711	Target Zone	
2 nd Bone Spring Sand	9711	Target Zone	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Cotton Draw Unit 240H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	750	13.375"	48	H40	STC	1.77	3.98	7.71
12.25"	0	3400	9.625"	36	J55	LTC	1.15	1.66	1.97
12.25"	3400	4300	9.625"	40	J55	LTC	1.18	1.81	3.10
8.75"	0	14862	5.5"	17	P110	BTC	1.56	1.93	2.26
BLM Minimum Safety Factor							1.10	1.10	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Cotton Draw Unit 240H

3. Cementing Program

Casing	# Sks	Wt. lb/gal	H ₂ O gal/sk	Yld ft ³ /sack	500# Comp. Strength (hours)	Slurry Description
Surf.	820	14.8	6.32	1.33	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Inter.	910	12.9	9.81	1.85	17	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Prod.	870	12.5	10.86	1.96	30	1 st Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1330	14.5	5.31	1.2	25	1 st Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV/ECP Tool 4500'					
	80	11	14.81	2.55	22	2 nd stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	110	14.8	6.32	1.33	6	2 nd stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	75%
Production	4100'	25%

Devon Energy, Cotton Draw Unit 240H

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
--	--

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		
			Pipe Ram		
			Double Ram	x	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
---	--

Devon Energy, Cotton Draw Unit 240H

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	<p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <p>Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.</p> <ul style="list-style-type: none"> • Wellhead will be installed by FMC's representatives. • If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. • FMC representative will install the test plug for the initial BOP test. • FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. • If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. • Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. • Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. <p>After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.</p> <p>After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.</p> <p>The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.</p>

Devon Energy, Cotton Draw Unit 240H

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns. See attached schematic.
--

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	750'	FW Gel	8.6-8.8	28-34	N/C
750'	4300'	Saturated Brine	10.0-10.2	28-34	N/C
4300'	14862'	Cut Brine	8.5-9.3	28-34	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
X CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	

Devon Energy, Cotton Draw Unit 240H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4719 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

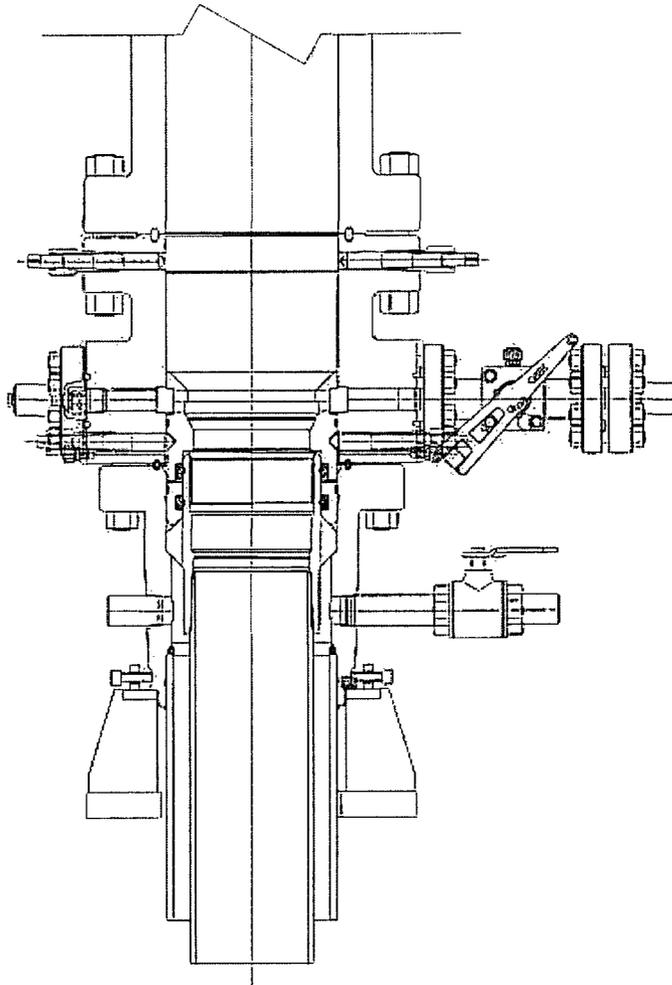
Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

Directional Plan

Other, describe



PRIMARY MODE

DEVON ENERGY

ARTESIA
S.E.N.M
13 3/8 X 9 5/8

QUOTE LAYOUT
F18648
REF: DM100161737
DM100151315

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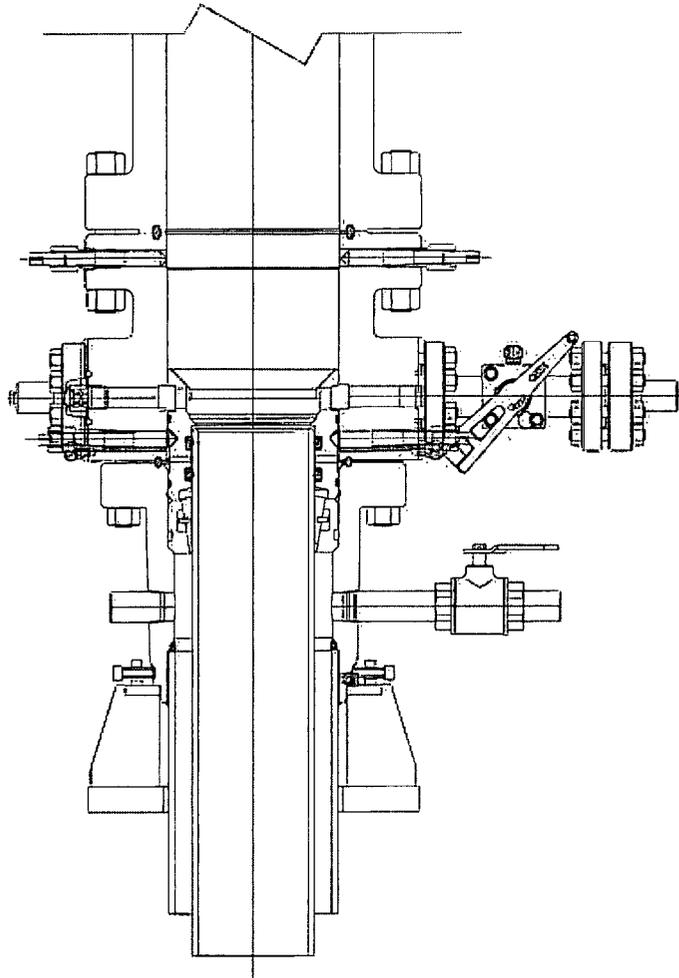
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REVISIONS	DESCRIPTION	DATE	BY	REVIEW	DATE	BY
A	05-08-13		K. VU		05-08-13	
B	1-22-14		Z. MARQUEZ		05-08-13	
C	5-13-14		K. TAHA		05-08-13	
			R. HAMILTON		05-08-13	

SURFACE WELLHEAD LAYOUT UNIHEAD, UH-1,SOW, DEVON ENERGY, ODESSA		DRAWING NUMBER DM100161771-2A	
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CONTINGENCY MODE

DEVON ENERGY

ARTESIA

S.E.N.M

13 3/8 X 9 5/8

QUOTE LAYOUT
F18648
REF: DM100161737
DM100151315

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Devon

Project: Eddy County, NM (NAD 83)

Site: Sec 13, T25S, R31E

Well: Cotton Draw Unit 240H

Wellbore: Wellbore #1

Plan: Plan #1 091114 RevA0 (Cotton Draw Unit 240H /Wellbore #1)

HP212 25'KB

HALLIBURTON

Sperry Drilling

WELL DETAILS: Cotton Draw Unit 240H

Ground Level: 3399.40			
Northing	Easting	Latitude	Longitude
414036.79	726937.84	32° 8' 12.644 N	103° 44' 1.363 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9851.11	0.00	0.00	9851.11	0.00	0.00	0.00	0.00	0.00	
10742.49	89.14	179.76	10424.00	-564.33	2.32	10.00	179.76	564.34	CDU 240H BHL
14862.87	89.14	179.76	10486.00	-4684.21	19.24	0.00	0.00	4684.25	CDU 240H BHL

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
CDU 240H BHL	10486.00	-4684.21	19.24	Point

True Vertical Depth (1500 ft/in)

Cherry Canyon

6000

Brushy Canyon

7500

1st BSPG Lime

9000

1st BSPG Sand

10500

Start Build 10.00

Start 4120.38 hold at 10742.49 MD

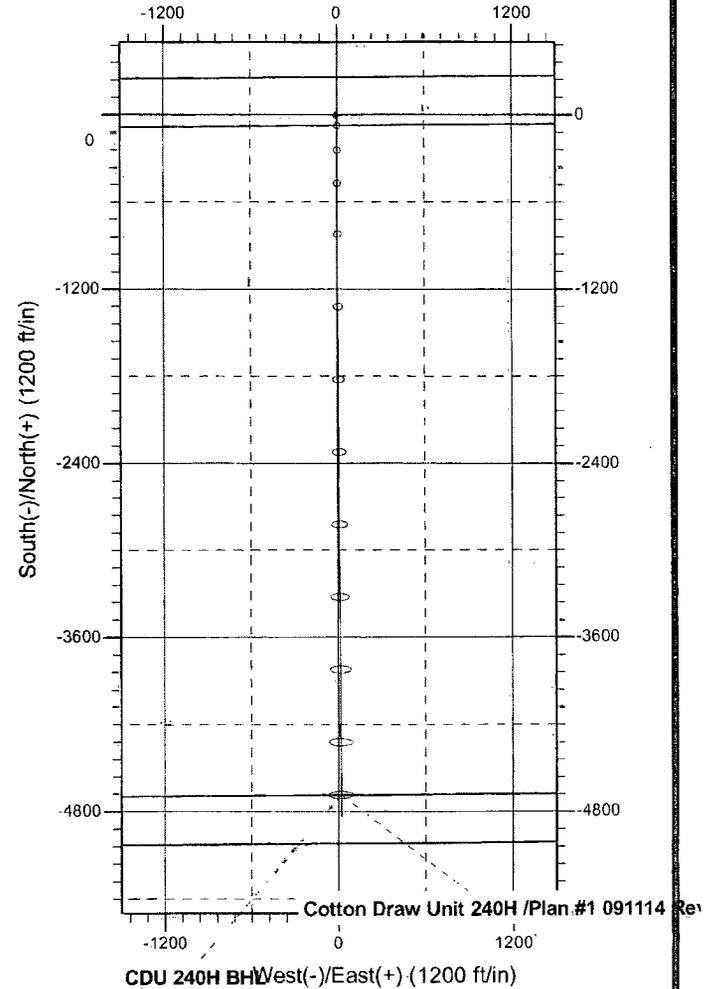
TD at 14862.87

CDU 240H BHL

Plan #1 091114 RevA0

Vertical Section at 179.76° (1500 ft/in)

devon



Job#
HP212 25'KB

Devon

Eddy County, NM (NAD 83) Sec 13, T25S, R31E

API#

Cotton Draw Unit 240H

265' FNL & 1980'

Wellbore #1

Plan: Plan #1 091114 RevA0

Sperry Drilling Services Combo Report

11 September, 2014

Well Coordinates: 32° 08' 12.64" N
103° 44' 01.36" W

North American Datum 1983
New Mexico Eastern Zone
414,036.79 N
726,937.84 E

Ground Level: 3,399.40 ft

Local Coordinate Origin:
Viewing Datum:
TVDs to System:

Centered on Well Cotton Draw Unit 240H
WELL @ 3424.40ft (HP212 25'KB)

North Reference:
Unit System:

N
Grid
API US Survey Feet

Version: 5000.1 Build: 65

Report Version: Midcon Combo v1.50

HALLIBURTON

Plan Report for Cotton Draw Unit 240H - Plan #1 091114 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing	Easting	Northing	Easting			
0.00	0.00	0.00	-3,424.40	0.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
100.00	0.00	0.00	-3,324.40	100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
200.00	0.00	0.00	-3,224.40	200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
300.00	0.00	0.00	-3,124.40	300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
400.00	0.00	0.00	-3,024.40	400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
500.00	0.00	0.00	-2,924.40	500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
600.00	0.00	0.00	-2,824.40	600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
600.40	0.00	0.00	-2,824.00	600.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Rustler
700.00	0.00	0.00	-2,724.40	700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
800.00	0.00	0.00	-2,624.40	800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
900.00	0.00	0.00	-2,524.40	900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
995.40	0.00	0.00	-2,429.00	995.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Top of Salt
1,000.00	0.00	0.00	-2,424.40	1,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,100.00	0.00	0.00	-2,324.40	1,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,200.00	0.00	0.00	-2,224.40	1,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,300.00	0.00	0.00	-2,124.40	1,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,400.00	0.00	0.00	-2,024.40	1,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,500.00	0.00	0.00	-1,924.40	1,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,600.00	0.00	0.00	-1,824.40	1,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,700.00	0.00	0.00	-1,724.40	1,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,800.00	0.00	0.00	-1,624.40	1,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
1,900.00	0.00	0.00	-1,524.40	1,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,000.00	0.00	0.00	-1,424.40	2,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,100.00	0.00	0.00	-1,324.40	2,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,200.00	0.00	0.00	-1,224.40	2,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,300.00	0.00	0.00	-1,124.40	2,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,400.00	0.00	0.00	-1,024.40	2,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,500.00	0.00	0.00	-924.40	2,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,600.00	0.00	0.00	-824.40	2,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,700.00	0.00	0.00	-724.40	2,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,800.00	0.00	0.00	-624.40	2,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
2,801.40	0.00	0.00	-623.00	2,801.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Castle
2,900.00	0.00	0.00	-524.40	2,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,000.00	0.00	0.00	-424.40	3,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,100.00	0.00	0.00	-324.40	3,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,200.00	0.00	0.00	-224.40	3,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,300.00	0.00	0.00	-124.40	3,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,400.00	0.00	0.00	-24.40	3,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,500.00	0.00	0.00	75.60	3,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,600.00	0.00	0.00	175.60	3,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,700.00	0.00	0.00	275.60	3,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	

Plan Report for Cotton Draw Unit 240H - Plan #1 091114 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing	Easting	Northing	Easting			
3,800.00	0.00	0.00	375.60	3,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
3,900.00	0.00	0.00	475.60	3,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,000.00	0.00	0.00	575.60	4,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,100.00	0.00	0.00	675.60	4,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,200.00	0.00	0.00	775.60	4,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,300.00	0.00	0.00	875.60	4,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,400.00	0.00	0.00	975.60	4,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,408.40	0.00	0.00	984.00	4,408.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Bell Canyon
4,500.00	0.00	0.00	1,075.60	4,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,600.00	0.00	0.00	1,175.60	4,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,700.00	0.00	0.00	1,275.60	4,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,800.00	0.00	0.00	1,375.60	4,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
4,900.00	0.00	0.00	1,475.60	4,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,000.00	0.00	0.00	1,575.60	5,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,100.00	0.00	0.00	1,675.60	5,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,200.00	0.00	0.00	1,775.60	5,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,297.40	0.00	0.00	1,873.00	5,297.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Cherry Canyon
5,300.00	0.00	0.00	1,875.60	5,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,400.00	0.00	0.00	1,975.60	5,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,500.00	0.00	0.00	2,075.60	5,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,600.00	0.00	0.00	2,175.60	5,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,700.00	0.00	0.00	2,275.60	5,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,800.00	0.00	0.00	2,375.60	5,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
5,900.00	0.00	0.00	2,475.60	5,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,000.00	0.00	0.00	2,575.60	6,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,100.00	0.00	0.00	2,675.60	6,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,200.00	0.00	0.00	2,775.60	6,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,300.00	0.00	0.00	2,875.60	6,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,400.00	0.00	0.00	2,975.60	6,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,500.00	0.00	0.00	3,075.60	6,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,600.00	0.00	0.00	3,175.60	6,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,622.40	0.00	0.00	3,198.00	6,622.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Brushy Canyon
6,700.00	0.00	0.00	3,275.60	6,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,800.00	0.00	0.00	3,375.60	6,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
6,900.00	0.00	0.00	3,475.60	6,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,000.00	0.00	0.00	3,575.60	7,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,100.00	0.00	0.00	3,675.60	7,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,200.00	0.00	0.00	3,775.60	7,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,300.00	0.00	0.00	3,875.60	7,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,400.00	0.00	0.00	3,975.60	7,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,500.00	0.00	0.00	4,075.60	7,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	

Plan Report for Cotton Draw Unit 240H - Plan #1 091114 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing	Easting	Northing	Easting			
7,800.00	0.00	0.00	4,175.80	7,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,700.00	0.00	0.00	4,275.60	7,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,800.00	0.00	0.00	4,375.80	7,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
7,900.00	0.00	0.00	4,475.60	7,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,000.00	0.00	0.00	4,575.60	8,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,100.00	0.00	0.00	4,675.60	8,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,200.00	0.00	0.00	4,775.60	8,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,204.40	0.00	0.00	4,780.00	8,204.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	1st BSPG Lime
8,300.00	0.00	0.00	4,875.60	8,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,400.00	0.00	0.00	4,975.60	8,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,500.00	0.00	0.00	5,075.60	8,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,600.00	0.00	0.00	5,175.60	8,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,700.00	0.00	0.00	5,275.60	8,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,800.00	0.00	0.00	5,375.60	8,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
8,900.00	0.00	0.00	5,475.60	8,900.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,000.00	0.00	0.00	5,575.60	9,000.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,100.00	0.00	0.00	5,675.60	9,100.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,200.00	0.00	0.00	5,775.60	9,200.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,300.00	0.00	0.00	5,875.60	9,300.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,335.40	0.00	0.00	5,911.00	9,335.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	1st BSPG Sand
9,400.00	0.00	0.00	5,975.60	9,400.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,500.00	0.00	0.00	6,075.60	9,500.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,600.00	0.00	0.00	6,175.60	9,600.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,700.00	0.00	0.00	6,275.60	9,700.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,712.40	0.00	0.00	6,288.00	9,712.40	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	2nd BSPG Lime - 2nd BSPG Sand
9,800.00	0.00	0.00	6,375.60	9,800.00	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	
9,851.11	0.00	0.00	6,426.71	9,851.11	0.00 N	0.00 E	414,036.79	726,937.84	0.00	0.00	Start Build 10.00
9,900.00	4.89	179.76	6,475.54	9,899.94	2.08 S	0.01 E	414,034.71	726,937.85	10.00	2.08	
10,000.00	14.89	179.76	6,573.93	9,998.33	19.24 S	0.08 E	414,017.55	726,937.92	10.00	19.24	
10,100.00	24.89	179.76	6,667.85	10,092.25	53.21 S	0.22 E	413,983.58	726,938.06	10.00	53.21	
10,200.00	34.89	179.76	6,754.44	10,178.84	102.98 S	0.42 E	413,933.61	726,938.26	10.00	102.98	
10,300.00	44.89	179.76	6,831.07	10,255.47	167.03 S	0.69 E	413,869.76	726,938.53	10.00	167.03	
10,400.00	54.89	179.76	6,895.41	10,319.81	243.41 S	1.00 E	413,793.38	726,938.84	10.00	243.41	
10,500.00	64.89	179.76	6,945.52	10,369.92	329.81 S	1.35 E	413,706.98	726,939.19	10.00	329.81	
10,600.00	74.89	179.76	6,979.86	10,404.26	423.59 S	1.74 E	413,613.20	726,939.58	10.00	423.59	
10,700.00	84.89	179.76	6,997.39	10,421.79	521.91 S	2.14 E	413,514.88	726,939.98	10.00	521.91	
10,742.49	89.14	179.76	6,999.60	10,424.00	564.33 S	2.32 E	413,472.46	726,940.16	10.00	564.34	Start 4120.38 hold at 10742.49 MD
10,800.00	89.14	179.76	7,000.47	10,424.87	621.84 S	2.55 E	413,414.96	726,940.39	0.00	621.84	
10,900.00	89.14	179.76	7,001.97	10,426.37	721.82 S	2.96 E	413,314.97	726,940.80	0.00	721.83	
11,000.00	89.14	179.76	7,003.48	10,427.88	821.81 S	3.38 E	413,214.98	726,941.22	0.00	821.82	
11,100.00	89.14	179.76	7,004.98	10,429.38	921.80 S	3.79 E	413,114.99	726,941.63	0.00	921.81	

Plan Report for Cotton Draw Unit 240H - Plan #1 091114 RevA0

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (usft)		Dogleg Rate (°/100usft)	Vertical Section (ft)	Comments
					Northing	Easting	Northing	Easting			
11,200.00	89.14	179.76	7,006.49	10,430.89	1,021.79 S	4.20 E	413,015.00	728,942.04	0.00	1,021.80	
11,300.00	89.14	179.76	7,007.99	10,432.39	1,121.77 S	4.61 E	412,915.02	726,942.45	0.00	1,121.78	
11,400.00	89.14	179.76	7,009.50	10,433.90	1,221.76 S	5.02 E	412,815.03	726,942.86	0.00	1,221.77	
11,500.00	89.14	179.76	7,011.00	10,435.40	1,321.75 S	5.43 E	412,715.04	726,943.27	0.00	1,321.76	
11,600.00	89.14	179.76	7,012.51	10,436.91	1,421.74 S	5.84 E	412,615.05	726,943.68	0.00	1,421.75	
11,700.00	89.14	179.76	7,014.01	10,438.41	1,521.73 S	6.25 E	412,515.07	726,944.09	0.00	1,521.74	
11,800.00	89.14	179.76	7,015.52	10,439.92	1,621.71 S	6.66 E	412,415.08	726,944.50	0.00	1,621.73	
11,900.00	89.14	179.76	7,017.02	10,441.42	1,721.70 S	7.07 E	412,315.09	726,944.91	0.00	1,721.72	
12,000.00	89.14	179.76	7,018.52	10,442.92	1,821.69 S	7.48 E	412,215.10	726,945.32	0.00	1,821.71	
12,100.00	89.14	179.76	7,020.03	10,444.43	1,921.68 S	7.89 E	412,115.12	726,945.73	0.00	1,921.69	
12,200.00	89.14	179.76	7,021.53	10,445.93	2,021.67 S	8.30 E	412,015.13	726,946.14	0.00	2,021.68	
12,300.00	89.14	179.76	7,023.04	10,447.44	2,121.65 S	8.71 E	411,915.14	726,946.55	0.00	2,121.67	
12,400.00	89.14	179.76	7,024.54	10,448.94	2,221.64 S	9.13 E	411,815.15	726,946.97	0.00	2,221.66	
12,500.00	89.14	179.76	7,026.05	10,450.45	2,321.63 S	9.54 E	411,715.17	726,947.38	0.00	2,321.65	
12,600.00	89.14	179.76	7,027.55	10,451.95	2,421.62 S	9.95 E	411,615.18	726,947.79	0.00	2,421.64	
12,700.00	89.14	179.76	7,029.06	10,453.46	2,521.60 S	10.36 E	411,515.19	726,948.20	0.00	2,521.63	
12,800.00	89.14	179.76	7,030.56	10,454.96	2,621.59 S	10.77 E	411,415.20	726,948.61	0.00	2,621.61	
12,900.00	89.14	179.76	7,032.07	10,456.47	2,721.58 S	11.18 E	411,315.22	726,949.02	0.00	2,721.60	
13,000.00	89.14	179.76	7,033.57	10,457.97	2,821.57 S	11.59 E	411,215.23	726,949.43	0.00	2,821.59	
13,100.00	89.14	179.76	7,035.07	10,459.47	2,921.56 S	12.00 E	411,115.24	726,949.84	0.00	2,921.58	
13,200.00	89.14	179.76	7,036.58	10,460.98	3,021.54 S	12.41 E	411,015.25	726,950.25	0.00	3,021.57	
13,300.00	89.14	179.76	7,038.08	10,462.48	3,121.53 S	12.82 E	410,915.26	726,950.66	0.00	3,121.56	
13,400.00	89.14	179.76	7,039.59	10,463.99	3,221.52 S	13.23 E	410,815.28	726,951.07	0.00	3,221.55	
13,500.00	89.14	179.76	7,041.09	10,465.49	3,321.51 S	13.64 E	410,715.29	726,951.48	0.00	3,321.54	
13,600.00	89.14	179.76	7,042.60	10,467.00	3,421.50 S	14.05 E	410,615.30	726,951.89	0.00	3,421.52	
13,700.00	89.14	179.76	7,044.10	10,468.50	3,521.48 S	14.46 E	410,515.31	726,952.30	0.00	3,521.51	
13,800.00	89.14	179.76	7,045.61	10,470.01	3,621.47 S	14.87 E	410,415.33	726,952.71	0.00	3,621.50	
13,900.00	89.14	179.76	7,047.11	10,471.51	3,721.46 S	15.29 E	410,315.34	726,953.13	0.00	3,721.49	
14,000.00	89.14	179.76	7,048.62	10,473.02	3,821.45 S	15.70 E	410,215.35	726,953.54	0.00	3,821.48	
14,100.00	89.14	179.76	7,050.12	10,474.52	3,921.43 S	16.11 E	410,115.36	726,953.95	0.00	3,921.47	
14,200.00	89.14	179.76	7,051.63	10,476.03	4,021.42 S	16.52 E	410,015.38	726,954.36	0.00	4,021.46	
14,300.00	89.14	179.76	7,053.13	10,477.53	4,121.41 S	16.93 E	409,915.39	726,954.77	0.00	4,121.44	
14,400.00	89.14	179.76	7,054.63	10,479.03	4,221.40 S	17.34 E	409,815.40	726,955.18	0.00	4,221.43	
14,500.00	89.14	179.76	7,056.14	10,480.54	4,321.39 S	17.75 E	409,715.41	726,955.59	0.00	4,321.42	
14,600.00	89.14	179.76	7,057.64	10,482.04	4,421.37 S	18.16 E	409,615.43	726,956.00	0.00	4,421.41	
14,700.00	89.14	179.76	7,059.15	10,483.55	4,521.36 S	18.57 E	409,515.44	726,956.41	0.00	4,521.40	
14,800.00	89.14	179.76	7,060.65	10,485.05	4,621.35 S	18.98 E	409,415.45	726,956.82	0.00	4,621.39	
14,862.87	89.14	179.76	7,061.60	10,486.00	4,684.21 S	19.24 E	409,352.59	726,957.08	0.00	4,684.25	TD at 14862.87

Plan Report for Cotton Draw Unit 240H - Plan #1 091114 RevA0

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,851.11	9,851.11	0.00	0.00	Start Build 10.00
10,742.49	10,424.00	-564.33	2.32	Start 4120.38 hold at 10742.49 MD
14,862.87	10,486.00	-4,684.21	19.24	TD at 14862.87

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
TD	No Target (Freehand)	179.76	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	14,862.78	Plan #1 091114 RevA0	MWD

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	TVDSS (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
600.40	600.40	-2,824.00	Rustler		0.00	
995.40	995.40	-2,429.00	Top of Salt		0.00	
2,801.40	2,801.40	-623.00	Castile		0.00	
4,408.40	4,408.40	984.00	Bell Canyon		0.00	
5,297.40	5,297.40	1,873.00	Cherry Canyon		0.00	
6,622.40	6,622.40	3,198.00	Brushy Canyon		0.00	
8,204.40	8,204.40	4,780.00	1st BSPG Lime		0.00	
9,335.40	9,335.40	5,911.00	1st BSPG Sand		0.00	
9,712.40	9,712.40	6,288.00	2nd BSPG Lime		0.00	
9,712.40	9,712.40	6,288.00	2nd BSPG Sand		0.00	

Plan Report for Cotton Draw Unit 240H - Plan #1 091114 RevA0

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CDU 240H BHL () - plan hits target center - Point	0.00	0.00	10,486.00	-4,684.21	19.24	409,352.59	726,957.08	32° 7' 26.290 N	103° 44' 1.443 W

Directional Difficulty Index

Average Dogleg over Survey:	0.60 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 10,742.49 ft
Net Tortousity applicable to Plans:	0.60 °/100usft	Directional Difficulty Index:	6.024

Audit Info

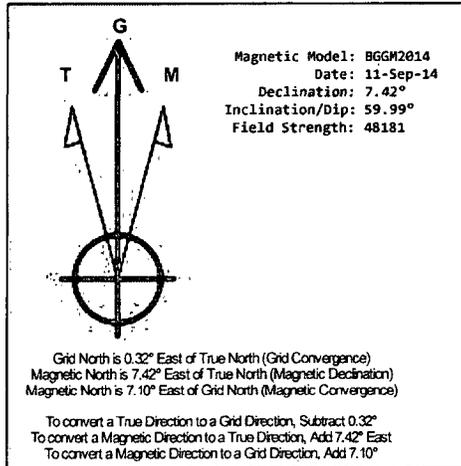
SAP=348244

North Reference Sheet for Sec 13, T25S, R31E - Cotton Draw Unit 240H - Wellbore #1

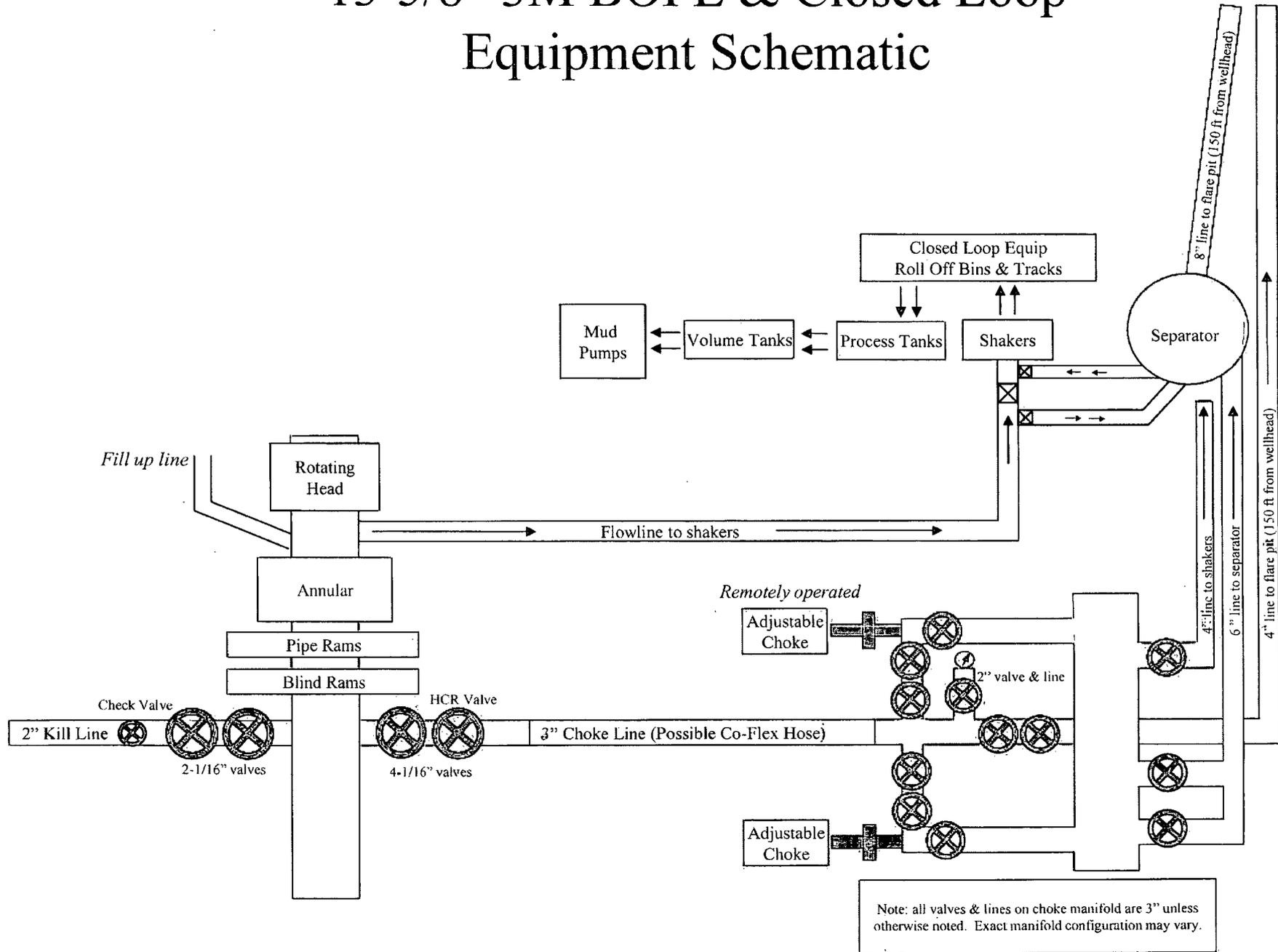
All data is in Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to WELL @ 3424.40ft (HP212 25'KB). Northing and Easting are relative to Cotton Draw Unit 240H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980
Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is 104° 20' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°
False Easting: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 0.99994854

Grid Coordinates of Well: 414,036.79 usft N, 726,937.84 usft E
Geographical Coordinates of Well: 32° 08' 12.64" N, 103° 44' 01.36" W
Grid Convergence at Surface is: 0.32°

Based upon Minimum Curvature type calculations, at a Measured Depth of 14,862.87ft
the Bottom Hole Displacement is 4,684.25ft in the Direction of 179.76° (Grid).
Magnetic Convergence at surface is: -7.10° (11 September 2014, , BGGM2014)



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, L.P.
Cotton Draw Unit 240H

1. Drilling Nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
 - Blowout preventer and all associated fittings will be in operable condition to withstand a minimum of 3000psi working pressure.
 - All fittings will be flanged.
 - A fill bore safety valve tested to a minimum of 3000psi WP with proper thread connections will be available on the rotary rig floor at all times.
3. All choke lines will be anchored to prevent movement.
4. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
5. Will maintain a kelly cock attached to the kelly.
6. Hand wheels and wrenches will be properly installed and tested for safe operation.
7. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
8. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

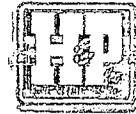
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittonmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



RIG 212



QUALITY DOCUMENT

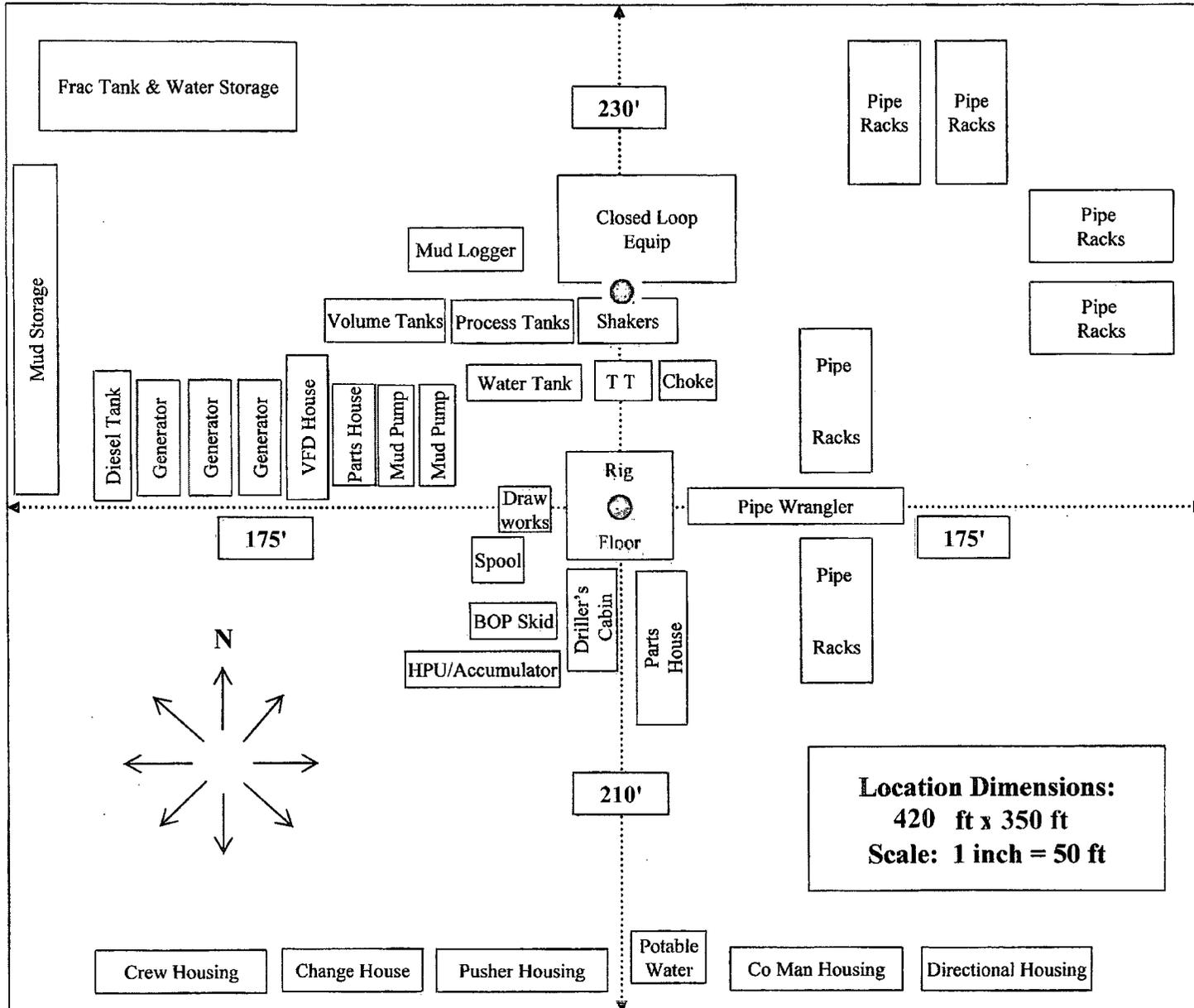
PHOENIX RUBBER INDUSTRIAL LTD.

6728 Szeged, Budapesti út 10, Hungary • H-6701 Szeged, P. O. Box 152
Phone: (3662) 566-737 • Fax: (3662) 566-738

SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44, Hungary • H-1440 Budapest, P. O. Box 26
Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 552	
PURCHASER: Phoenix Beattie Co.		P.O. N°: 1519FA-871	
PHOENIX RUBBER order N°: 170466	HOSE TYPE: 3" ID	Choke and Kill Hose	
HOSE SERIAL N°: 34128	NOMINAL / ACTUAL LENGTH: 11,43 m		
W.P. 68,96 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration: 60 min.	
Pressure test with water at ambient temperature <p style="text-align: center;">See attachment. (1 page)</p>			
↑ 10 mm = 10 Min. → 10 mm = 25 MPa			
COUPLINGS			
Type	Serial N°	Quality	Heat N°
3" coupling with 4 1/16" Flange end	720 719	AISI 4130	C7626
		AISI 4130	47357
API Spec 16 C Temperature rate: "B"			
All metal parts are flawless			
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.			
Date: 29. April. 2002.	Inspector	Quality Control PHOENIX RUBBER Industrial Ltd. Hose Inspection and VERIFIED THIS COPY PHOENIX RUBBER Q.C.	

H&P Flex Rig Location Layout





**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

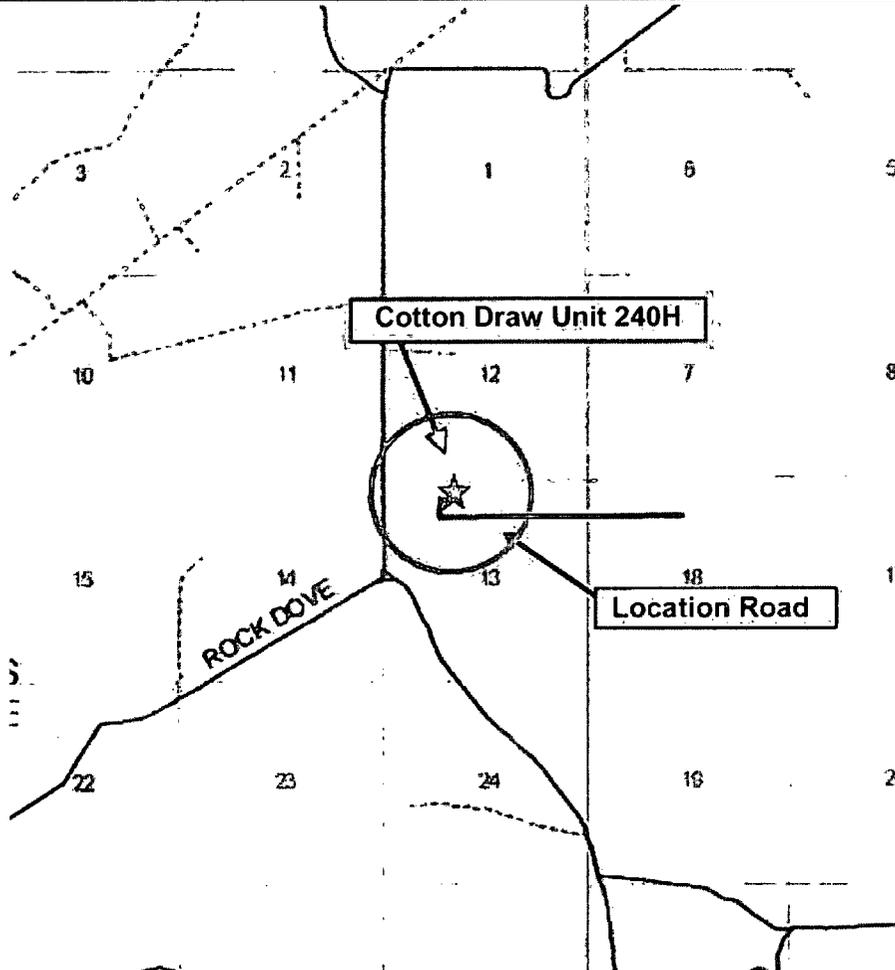
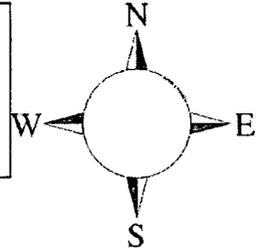
Cotton Draw Unit 240H

**Sec-13, T-25S R-31E
265' FNL & 1980 FWL
LAT. = 32.1368457'N (NAD83)
LONG = 103.7337120'W**

Eddy County NM

Cotton Draw Unit 240H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm. 3000' ()
100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road, West then Northwest on lease road. Crews should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – (with remotely operated choke)
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

- A. 30-minute SCBA units located in the doghouse and at briefing areas, as indicated on well site diagram. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

- A. Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 PPM are reached. These units are usually capable of detecting SO₂, which is a byproduct of burning H₂S.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List

Artesia (575)	Cellular	Office	Home
Foreman – Robert Bell.....	748-7448	748-0178	746-2991
Asst. Foreman –Tommy Polly.....	748-5290	748-0165	748-2846
Don Mayberry	748-5235	748-0164	746-4945
Montral Walker	390-5182	748-0193	(936) 414-6246
Engineer – Marcos Ortiz.....	(405) 317-0666.....	(405) 552-8152.....	(405) 381-4350

Agency Call List

Lea **Hobbs**

<u>County</u>	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance.....	911
	Fire Department.....	397-9308
	LEPC (Local Emergency Planning Committee).....	393-2870
	NMOCD	393-6161
	US Bureau of Land Management.....	393-3612

Eddy **Carlsbad**

<u>County</u>	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department.....	885-2111
	LEPC (Local Emergency Planning Committee).....	887-3798
	US Bureau of Land Management.....	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center (Washington, DC)	(800) 424-8802

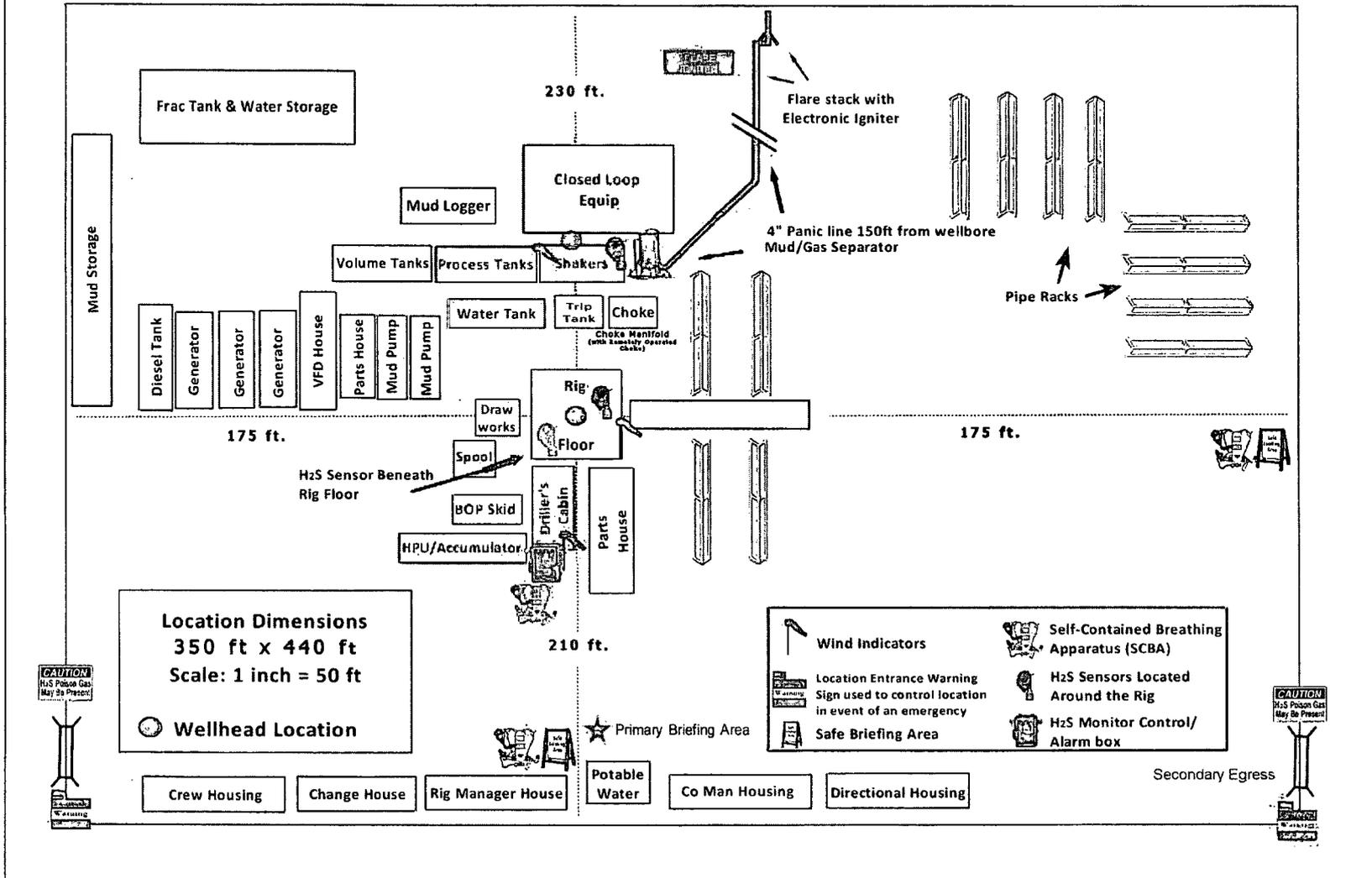
Emergency Services

	Boots & Coats IWC	(800)-256-9688 or (281) 931-8884
	Cudd Pressure Control.....	(915) 699-0139 or (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services.....	(575) 746-3569
<i>Give</i>	Native Air – Emergency Helicopter – Hobbs.....	(575) 392-6429
<i>GPS</i>	Flight For Life - Lubbock, TX	(806) 743-9911
<i>position:</i>	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(575) 272-3115

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location





Proposed Interim Site Reclamation

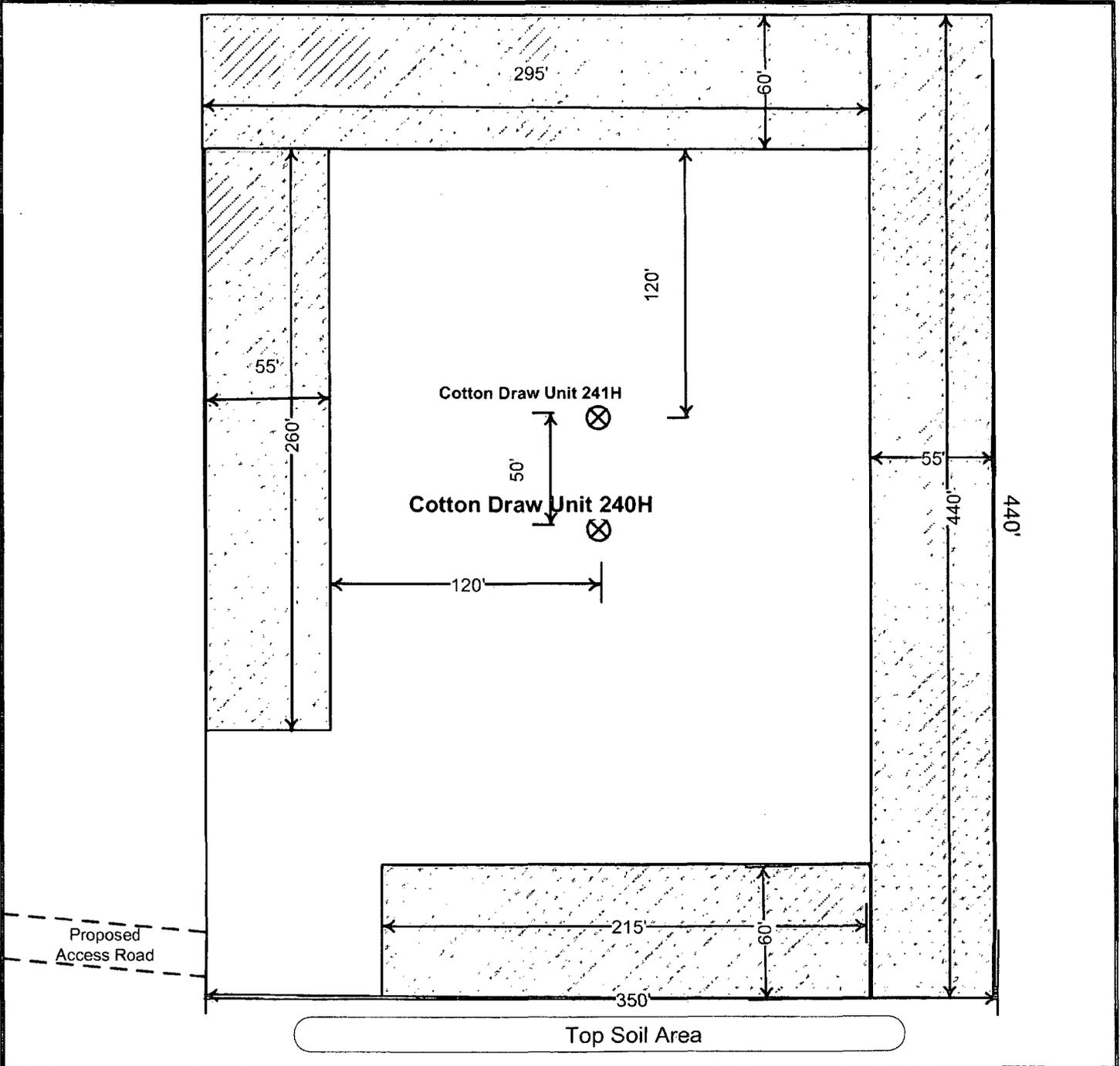
Devon Energy Production Co.
Cotton Draw Unit 240H
Sec.13-T25S-R31E
Eddy, NM



Proposed Reclamation Area

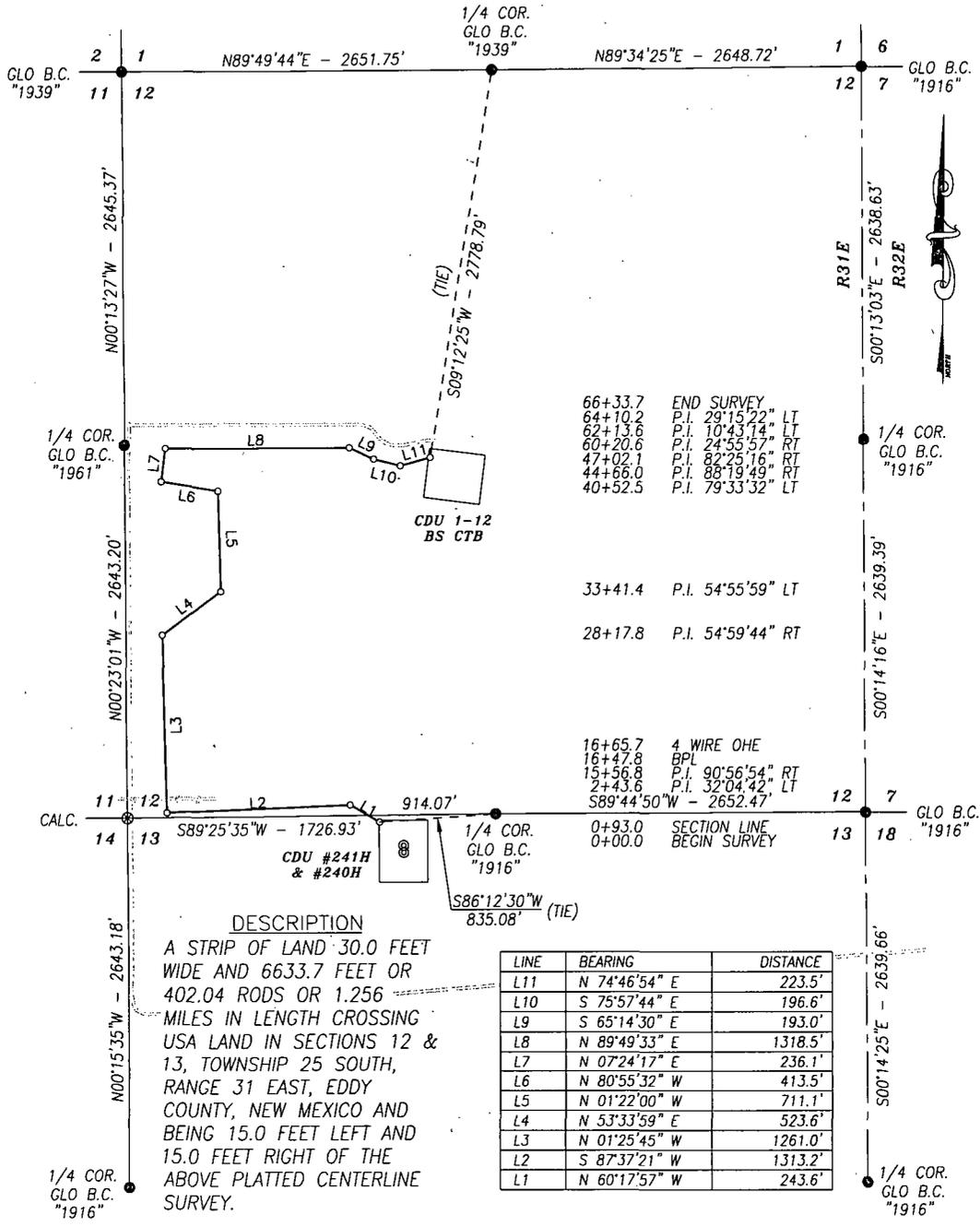


Scale: 1in = 60ft.



FLOW LINE PLAT
DEVON ENERGY PRODUCTION CO. L.P.

2-6" BURIED FIBER PIPES FROM CDU #240H & #241H TO THE CDU 1-12 (BS) CTB IN
SECTIONS 12 & 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



66+33.7 END SURVEY
 64+10.2 P.I. 29°15'22" LT
 62+13.6 P.I. 10°43'14" LT
 60+20.6 P.I. 24°55'57" RT
 47+02.1 P.I. 82°25'16" RT
 44+66.0 P.I. 88°19'49" RT
 40+52.5 P.I. 79°33'32" LT

33+41.4 P.I. 54°55'59" LT
 28+17.8 P.I. 54°59'44" RT

16+65.7 4 WIRE OHE
 16+47.8 BPL
 15+56.8 P.I. 90°56'54" RT
 2+43.6 P.I. 32°04'42" LT
 S89°44'50"W - 2652.47'

0+93.0 SECTION LINE
 0+00.0 BEGIN SURVEY

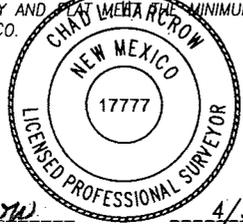
DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 6633.7 FEET OR 402.04 RODS OR 1.256 MILES IN LENGTH CROSSING USA LAND IN SECTIONS 12 & 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

LINE	BEARING	DISTANCE
L11	N 74°46'54" E	223.5'
L10	S 75°57'44" E	196.6'
L9	S 65°14'30" E	193.0'
L8	N 89°49'33" E	1318.5'
L7	N 07°24'17" E	236.1'
L6	N 80°55'32" W	413.5'
L5	N 01°22'00" W	711.1'
L4	N 53°33'59" E	523.6'
L3	N 01°25'45" W	1261.0'
L2	S 87°37'21" W	1313.2'
L1	N 60°17'57" W	243.6'

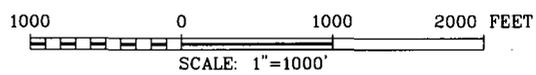
BASIS OF BEARING:
 BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE GRID VALUES.

CERTIFICATION
 I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

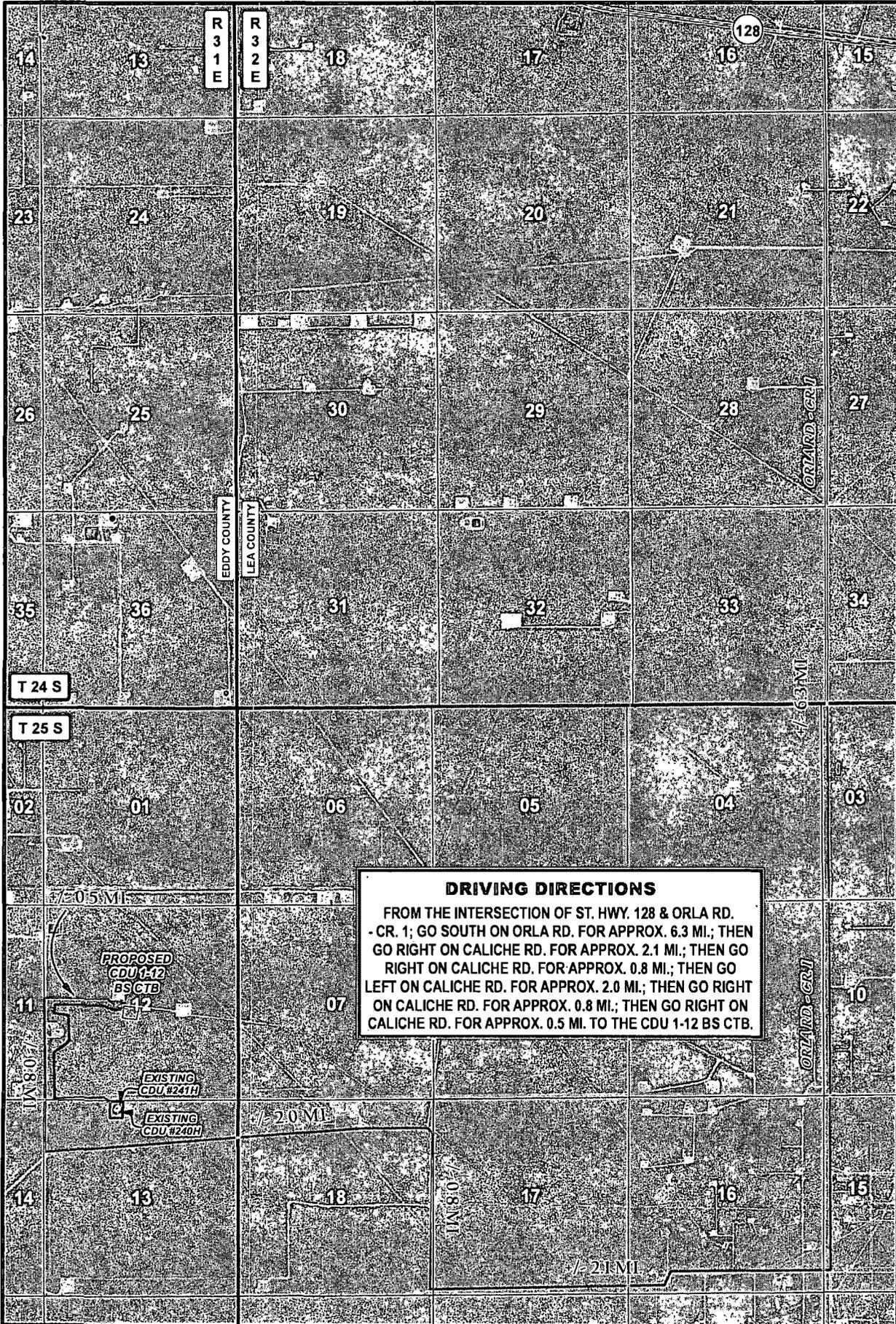


Chad Harcrow
 CHAD HARCROW N.M.P.S. NO. 17777
 DATE 4/30/15

HARCROW SURVEYING, LLC
 2314 W. MAIN ST, ARTESIA, N.M. 88210
 PH: (575) 746-2158 FAX: (575) 746-2158
 c.harcrow@harcrowsurveying.com



DEVON ENERGY PRODUCTION CO. L.P.		
SURVEY OF A PROPOSED FLOW LINE LOCATED IN SECTIONS 12 & 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, EDDY COUNTY, NMPM, NEW MEXICO		
SURVEY DATE: APRIL 8, 2015		
DRAFTING DATE: APRIL 27, 2015		PAGE 1 OF 4
APPROVED BY: CH	DRAWN BY: VD	FILE: 15-425



DRIVING DIRECTIONS

FROM THE INTERSECTION OF ST. HWY. 128 & ORLA RD.
 - CR. 1; GO SOUTH ON ORLA RD. FOR APPROX. 6.3 MI.; THEN
 GO RIGHT ON CALICHE RD. FOR APPROX. 2.1 MI.; THEN GO
 RIGHT ON CALICHE RD. FOR APPROX. 0.8 MI.; THEN GO
 LEFT ON CALICHE RD. FOR APPROX. 2.0 MI.; THEN GO RIGHT
 ON CALICHE RD. FOR APPROX. 0.8 MI.; THEN GO RIGHT ON
 CALICHE RD. FOR APPROX. 0.5 MI. TO THE CDU 1-12 BS CTB.

LEGEND

- FLOW LINE
- WELL
- WELLPAD
- TANK BATTERY

CDU #210H & #241H FLOW LINE

SECTIONS: 12 & 13 TOWNSHIP: 25 S. RANGE: 31 E.
 STATE: NEW MEXICO COUNTY: EDDY SURVEY: N.M.P.M
 W.O. # 15-425 LEASE: COTTON DRAW UNIT

0 2,500 5,000 7,500 FEET

0 0.2 0.4 0.8 Miles 1 IN = 3,000 FT

devon
 ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
 2334 W. MAIN ST, ARTESIA, NM 88210
 PH: (575) 746-2158 FAX: (575) 746-2158
 charcrow@harcrowsurveying.com



LEGEND

- FLOW LINE
- WELL
- WELLPAD
- TANK BATTERY

CDU #240H & #241H FLOW LINE

SECTIONS: 12 & 13	TOWNSHIP: 25 S.	RANGE: 31 E.
STATE: NEW MEXICO	COUNTY: EDDY	SURVEY: N.M.P.M
W.O. # 15-425	LEASE: COTTON DRAW UNIT	

0 0.05 0.1 0.2 Miles

0 2,500 FEET

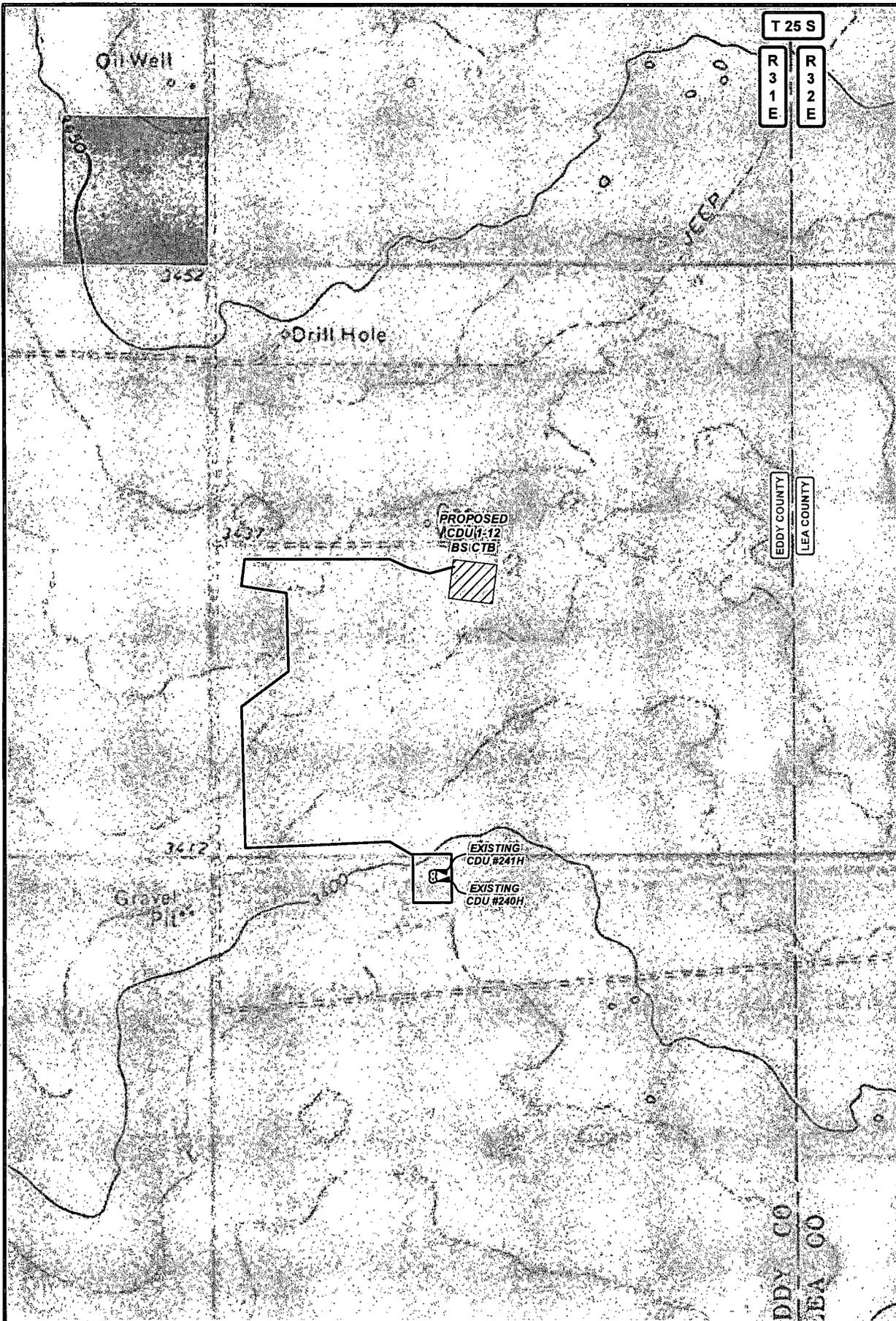
1 IN = 1,000 FT

FLOW LINE OVERVIEW IMAGERY SIP

devon
ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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PH: (575) 746-2158 FAX: (575) 746-2158
c.harcrow@harcrowsurveying.com

ORIG: 04/29/2015 PAGE: 3 OF 4



LEGEND

- FLOW LINE
- WELL
- WELL PAD
- ▨ TANK BATTERY
- PRIVATE
- ▨ STATE OF NM
- US BLM

CDU #240H & #241H FLOW LINE		
SECTIONS: 12 & 13	TOWNSHIP: 25 S.	RANGE: 31 E.
STATE: NEW MEXICO	COUNTY: EDDY	SURVEY: N.M.P.M
W.O. # 15-425	LEASE: COTTON DRAW UNIT	
		1 IN = 1,000 FT
FLOW LINE OVERVIEW	LAND STATUS	SP.

ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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 charcrow@harcrowsurveying.com

ORIG: 04/29/2015 PAGE: 4 OF 4

SURFACE USE PLAN

Devon Energy Production Company, L.P.
Cotton Draw Unit 240H

1. Existing Roads:

- a. The well site and elevation plat for the proposed well are reflected on the "Site Map". The well was staked by Madron Surveying, Inc.
- b. All roads into the location are depicted on the "Vicinity Map". The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.
- c. Directions to Location: From the intersection of State Road 128 and CR 1 (Orla Road) go South on CR 1 6.1 miles to Monsanto Road a Caliche Road on right. Go West 2.1 miles to road intersection, turn right go North 0.75 miles, then turn left go West 2.0 miles to road intersection, turn right go North 0.2 miles to proposed road on right, follow flags East 1762'.

2. New or Reconstructed Access Roads:

- a. The "Site Map" shows new constructed access road, which will be approximately 937 LF from the existing Lease road.
- b. The maximum driving width of the access road will be 14 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. The road will be crowned and ditched with 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- c. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

The attached "One Mile Radius Map" shows all existing and proposed wells within a one-mile radius of the proposed location.

4. Location of Existing and/or Proposed Production Facilities:

- a. In the event the well is found productive, the Cotton Draw Unit ~~240H~~ tank battery would be utilized and shared, and the necessary production equipment will be installed at the well site. This facility is located in ~~Section 25-R3E~~. See "Proposed Flowline Plat".
- b. If necessary, the well will be operated by means of an electric prime mover. If electric power poles are needed, a plat and a sundry notice will be filed with your office. *Powerline included*
- c. All flow lines will adhere to API standards.
- d. If the well is productive, rehabilitation plans are as follows:
 - i. A closed loop system will be utilized.
 - ii. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

Central tank Battery

5. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads described and depicted on the "Vicinity Map". On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

6. Construction Materials:

Obtaining caliche: One primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means caliche will be obtained from the actual well site. Actual amounts will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- b. Subsoil is removed and stockpiled within the surveyed well pad.
- c. When caliche is found, material will be stock piled within the pad site to build the location and road.
- d. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- e. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced.
- f. Neither caliche, nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.

In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or land.

7. Methods of Handling Waste Material:

- a. Drill cuttings will be safely contained in a closed loop system and disposed of properly at a NMOCD approved disposal site.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier will pick up salts remaining after completion of well, including broken sacks.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be sent to a closed loop system. Water produced during completion will be put into a closed loop system. Oil and condensate produced will be put into a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM

iv. Jims Water Service of Co Inc, Denver CO

8. **Ancillary Facilities:** No campsite or other facilities will be constructed as a result of this well.
9. **Well Site Layout**
 - a. The Rig Location Layout attachment shows the proposed well site layout and pad dimensions.
 - b. The Rig Location Layout attachment proposes location of sump pits and living facilities.
 - c. Mud pits in the active circulating system will be steel pits.
 - d. A closed loop system will be utilized.
 - e. If a pit or closed loop system is utilized, Devon will provide a copy of the Design Plan to the BLM.
10. **Plans for Surface Reclamation:**
 - a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
 - b. The location and road will be rehabilitated as recommended by the BLM.
 - c. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.
 - d. All disturbed areas not needed for active support of production operations will undergo interim reclamation. The portions of the cleared well site not needed for operational and safety purposes will be recontoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Topsoil will be respread over areas not needed for all-weather operations.
11. **Surface Ownership**
 - a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
 - b. The proposed road routes and the surface location will be restored as directed by the BLM.

12. Other Information:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sage bush, yucca and miscellaneous weeds. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III Survey for cultural resources associated with their project within the BLM office in Carlsbad, New Mexico.

13. Bond Coverage:

Bond Coverage is Nationwide; Bond # is CO-1104 & NMB-000801.

Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Dan McCorkel - Operations Engineer
Devon Energy Production Company, L.P.
333 W. Sheridan
Oklahoma City, OK 73102-5010
(405) 228-7528 (office)
(405) 443-8697 (Cellular)

Don Mayberry - Superintendent
Devon Energy Production Company, L.P.
Post Office Box 250
Artesia, NM 88211-0250
(575) 748-3371 (office)
(575) 746-4945 (home)

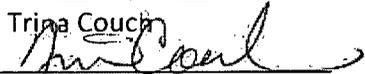
Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 10th day of November, 2014.

Printed Name: Trina Couch

Signed Name: 

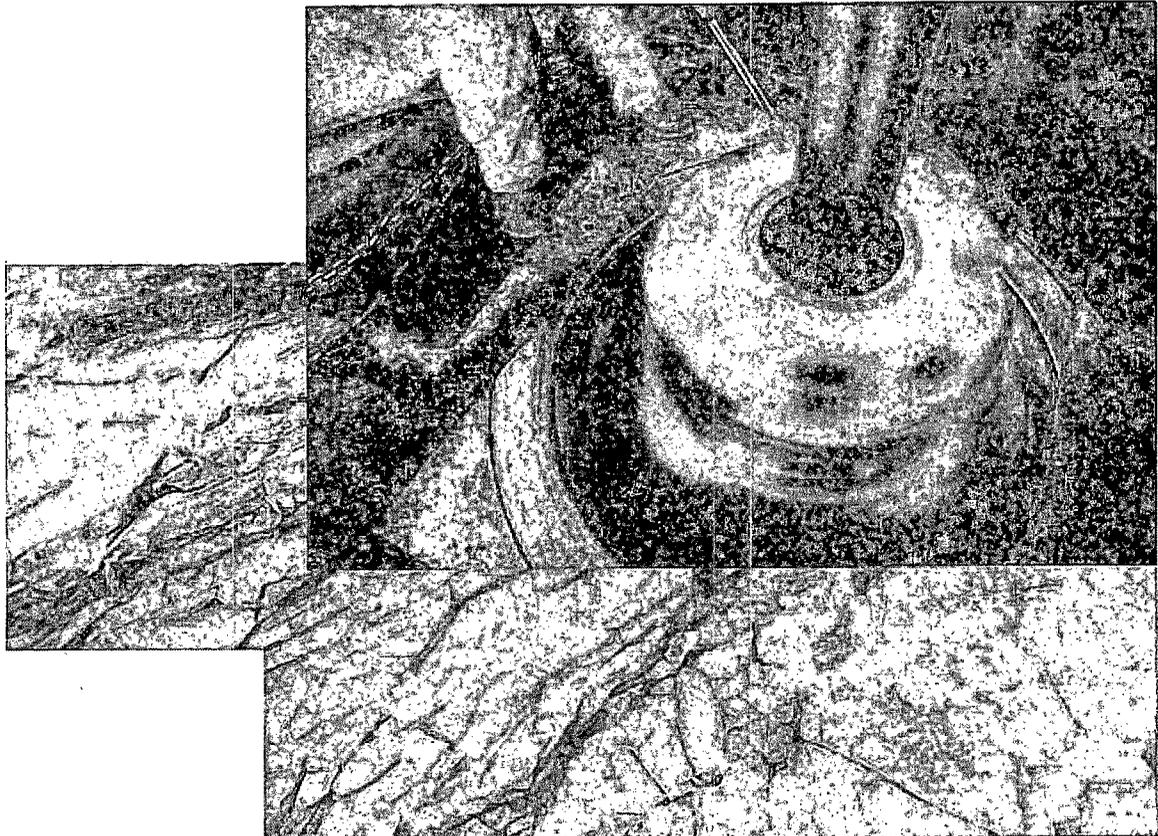
Position Title: Regulatory Analyst

Address: 333 W. Sheridan, OKC OK 73102

Telephone: (405)-552-6559



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

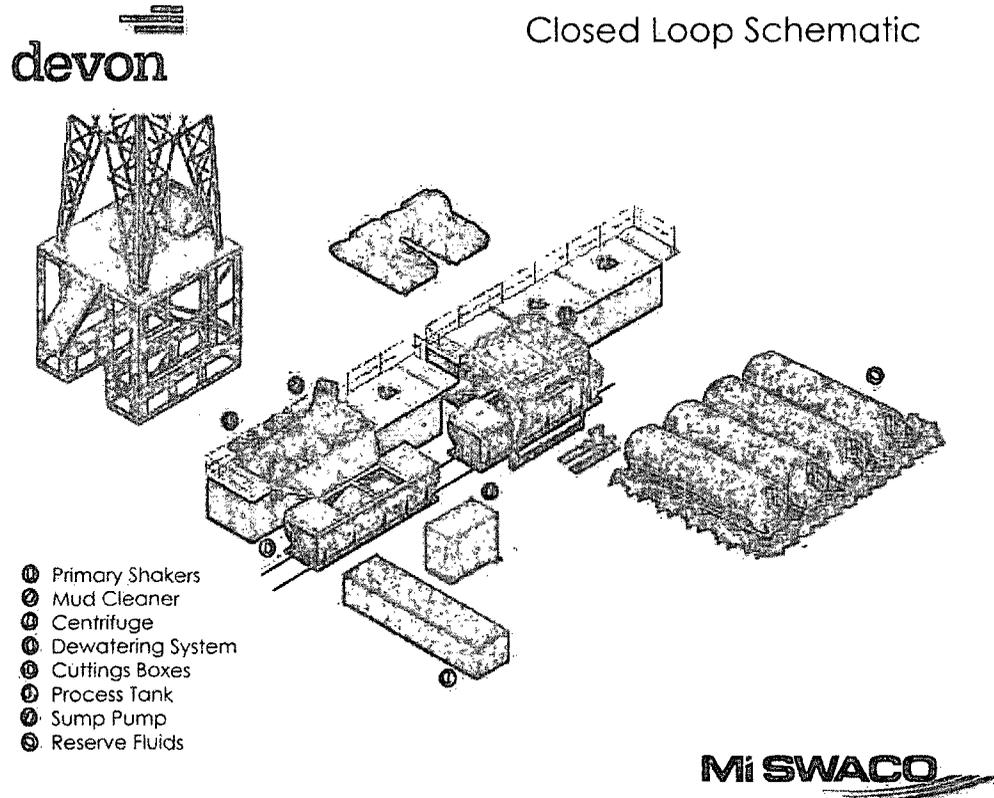
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

Form NM 8140-9
(March 2008)

United States Department of the Interior
Bureau of Land Management
New Mexico State Office

Permian Basin Cultural Resource Mitigation Fund

The company shown below has agreed to contribute funding to the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III survey for cultural resources associated with their project. This form verifies that the company has elected to have the Bureau of Land Management (BLM) follow the procedures specified within the Memorandum of Agreement (MOA) concerning improved strategies for managing historic properties within the Permian Basin, New Mexico, for the undertaking rather than the Protocol to meet the agency's Section 106 obligations.

Company Name: Devon Energy Production Co., LP

Address: 333 W. Sheridan, OKC, OK 73102

Project description: Application for Permit to Drill

Cultural Resource Inventory for the Cotton Draw Unit 240H proposed well location and access road.

Application for Permit to Drill (wells and immediate environment)

- \$1552.00 well for the pad and a ¼ mile of road
- Anything over ¼ mile of road is \$0.18/linear foot
- Total arch cost \$1,463.00

$$5,280 = 1 \text{ mile} \Rightarrow \frac{1}{4} = 1,320$$

$$\text{Total access road: } 937' - \frac{1}{4} \text{ mile of road included (1320)} = 0' \text{ over } 1320'$$

$$0' \times \$0.20 = \$0.00$$

(See above & see well pad topo)

T. 25S, R. 31E, Section 29 NMPM, Eddy County, New Mexico

Amount of contribution: \$ 1552.00

To be pad-drilled with the Cotton Draw Unit 241H

Provisions of the MOA:

A. No new Class III inventories are required of industry within the Project Area for those projects where industry elects to contribute to the mitigation fund.

B. The amount of funds contributed was derived from the rate schedule established within Appendix B of the MOA. The amount of the funding contribution acknowledged on this form reflects those rates.

C. The BLM will utilize the funding to carry out a program of mitigation at high-priority sites whose study is needed to answer key questions identified within the Regional Research Design.

D. Donating to the fund is voluntary. Industry acknowledges that it is aware it has the right to pay for Class III survey rather than contributing to the mitigation fund, and that it must avoid or fund data recovery at those sites already recorded that are eligible for nomination to the National Register or whose eligibility is unknown and that any such payments are independent of the mitigation funds established by this MOA.

E. Previously recorded archeological sites determined eligible for nomination to the National Register or whose eligibility remains undetermined must be avoided or mitigated.

F. If any skeletal remains that might be human or funerary objects are discovered by any activities, the land-use applicant will cease activities in the area of discovery, protect the remains, and notify the BLM within 24 hours. The BLM will determine the appropriate treatment of the remains in consultation with culturally affiliated Indian Tribe(s) and lineal descendents. Applicants will be required to pay for treatment of the cultural items independent and outside of the mitigation fund.

Trina C. Couch
Company-Authorized Officer

9/23/2014
Date

BLM-Authorized Officer

Date

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMLC-061862
WELL NAME & NO.:	Cotton Draw Unit 240H
SURFACE HOLE FOOTAGE:	0265' FNL & 1980' FWL
BOTTOM HOLE FOOTAGE:	0330' FSL & 1980' FWL
LOCATION:	Section 13, T. 25 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5; Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

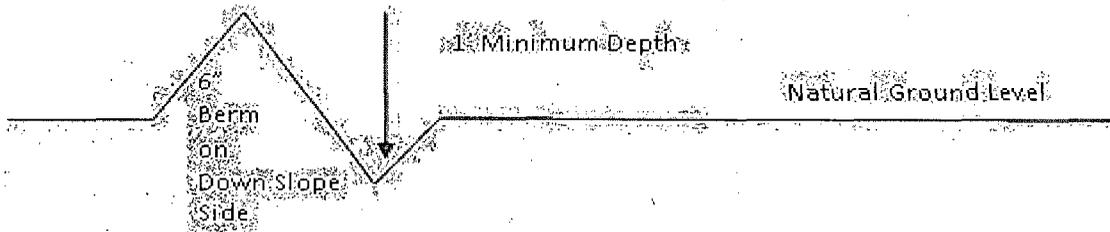
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsliping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

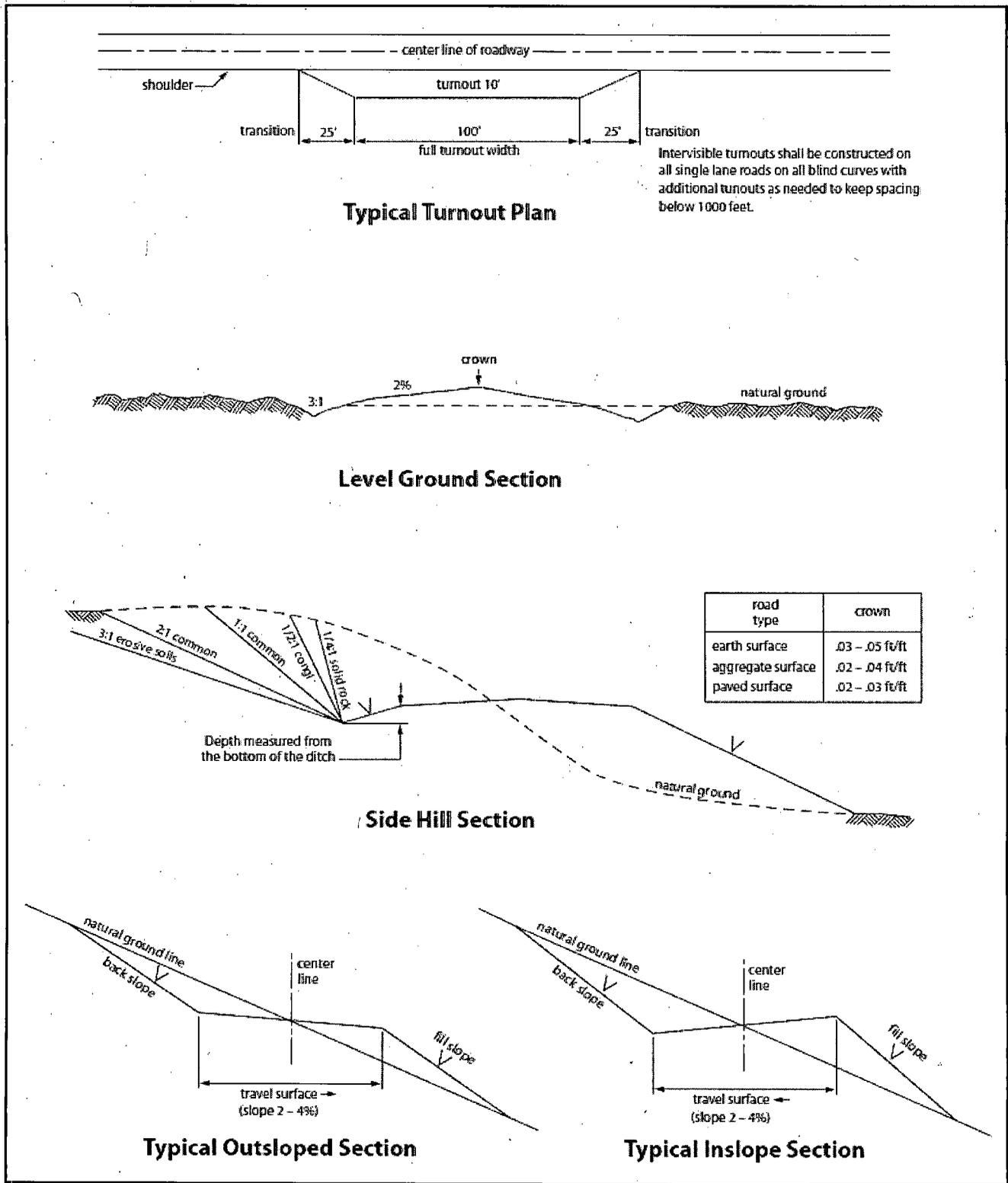


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler and Delaware.

1. The 13-3/8 inch surface casing shall be set at approximately 750 feet (**in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Operator has proposed DV tool at depth of 4500', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

a. First stage to DV tool:

Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.**
 - a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
 - b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
 - c. **Manufacturer representative shall install the test plug for the initial BOP test.**
 - d. **Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.**
 - e. **If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 041315

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the

largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure

of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

B.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When

necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

D.

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives. (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed