

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-39893	² Pool Code 96193	³ Pool Name BRUSHY CANYON Delaware
⁴ Property Code 30884	⁵ Property Name THISTLE "33" Unit	⁶ Well Number 17H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3654.0

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	33	23 S	33 E		150	SOUTH	1470	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

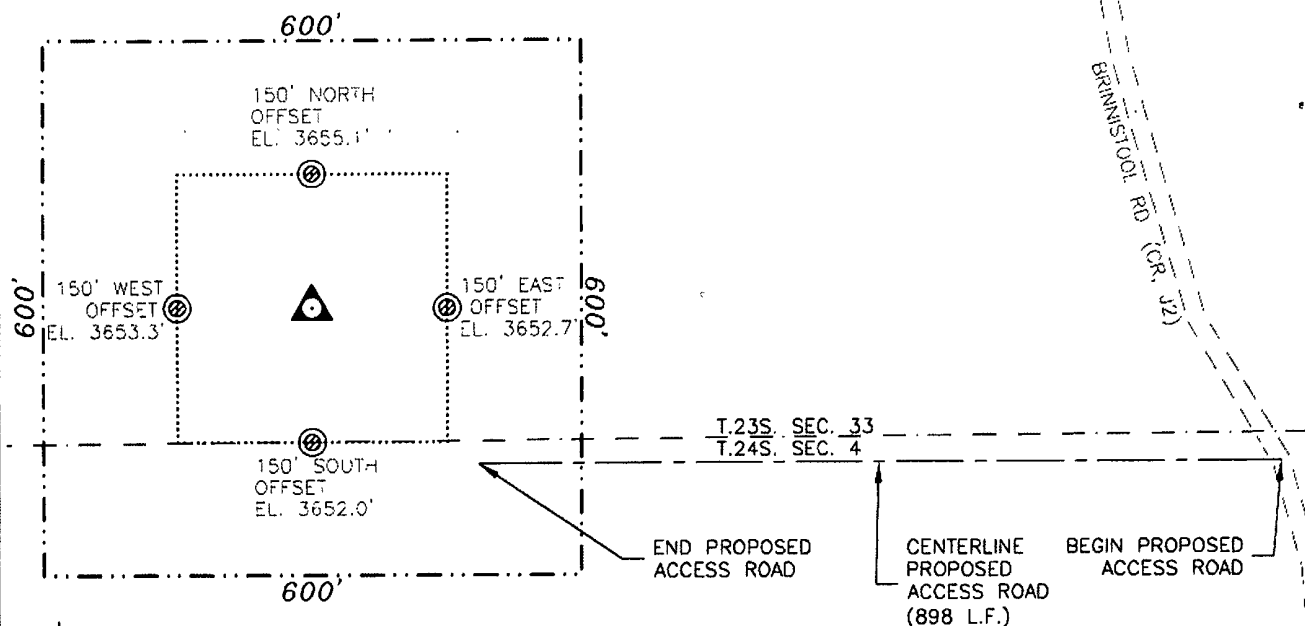
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	33	23 S	33 E		150	NORTH	2490	EAST	LEA

¹² Dedicated Acres 160	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.

<p>N. O. CORNER SEC. 33 LAT. = 32°16'06.43"N LONG. = 103°34'38.24"W NMSP EAST (FT) N = 462168.17 E = 775041.37</p> <p>BOTTOM OF HOLE LAT. = 32°16'04.94"N LONG. = 103°34'36.54"W NMSP EAST (FT) N = 462019.02 E = 775188.35</p> <p>THISTLE "33" #17H ELEV. = 3654.0' LAT. = 32°15'15.549"N (NAD83) LONG. = 103°34'24.636"W NMSP EAST (FT) N = 457033.82 E = 776246.46</p> <p>SW CORNER SEC. 33 LAT. = 32°15'14.11"N LONG. = 103°35'08.94"W NMSP EAST (FT) N = 456861.33 E = 772441.83</p> <p>SE CORNER SEC. 33 LAT. = 32°15'14.06"N LONG. = 103°34'07.52"W NMSP EAST (FT) N = 456893.46 E = 777717.59</p> <p>SURFACE LOCATION</p>	<p>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.</p> <p>Signature: <i>Spence Laird</i> Date: 8/26/10 Printed Name: SPENCE LAIRD</p> <p>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.</p> <p>AUGUST 13, 2010 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: <i>William P. Jaramillo</i> Certificate Number: 12797 SURVEY NO. 198</p>
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SECTION 33, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



THISTLE "33" #17H
ELEV. = 3654.0'
LAT. = 32°15'15.549"N (NAD83)
LONG. = 103°34'24.636"W
NMSP EAST (FT)
N = 457033.82
E = 776246.46



020 100 200 400

SCALE 1" = 200'

DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR. J2 (BRINNISTOOL) GO NORTH ON
CR. J2 3.1 MILES TO A PROPOSED ROAD SURVEY AND FOLLOW
FLAGS WEST 898' TO THE SE CORNER OF THE PROPOSED PAD
FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE "33" #17H

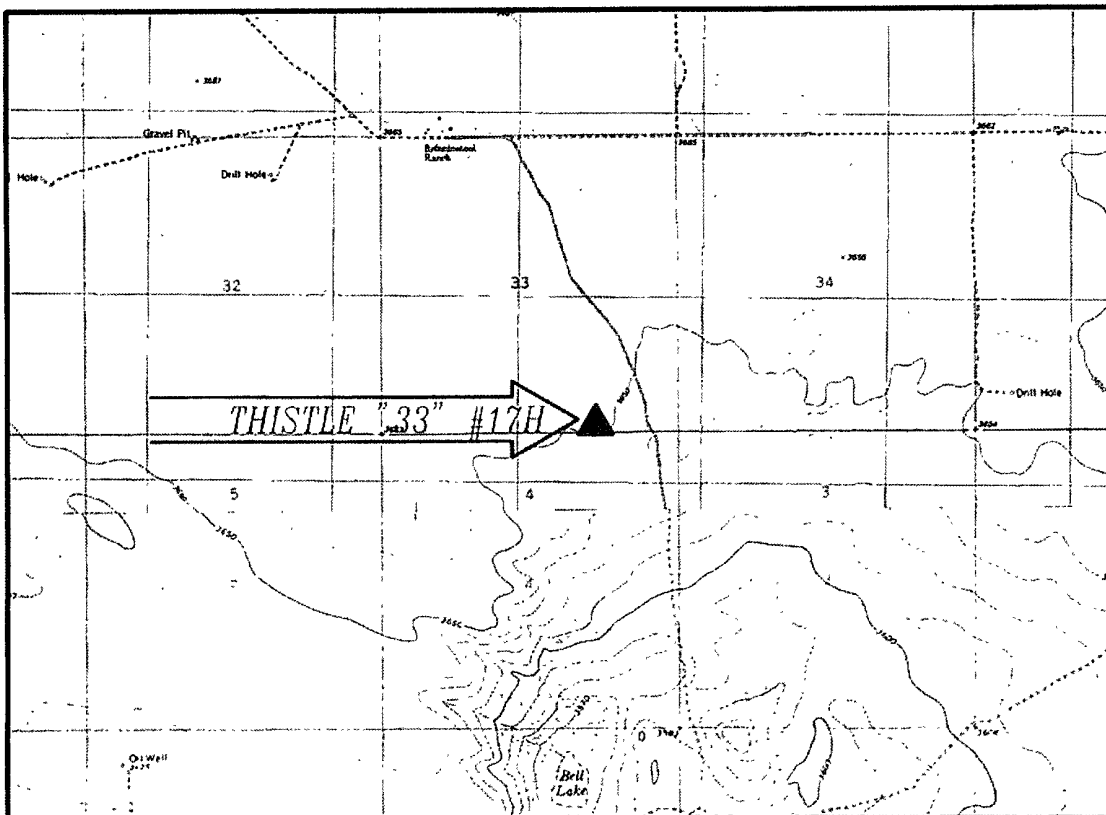
LOCATED 150 FT. FROM THE SOUTH LINE
AND 1470 FT. FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AUGUST 13, 2010

SURVEY NO. 198

MADRON SURVEYING, INC. 331 SOUTH CANAL (575) 987-5830 CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
TIP TOP WELLS

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR. J2 (BRINNISTOOL) GO NORTH ON CR.
J2 3.1 MILES TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS WEST
898' TO THE SE CORNER OF THE PROPOSED PAD FOR THIS LOCATION.

SEC. 33 TWP. 23-S RGE. 33-E
SURVEY N.M.P.M.
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 150' FSL & 1470' FEL
ELEVATION 3654.0'
OPERATOR DEVON ENERGY PRODUCTION COMPANY, LP
LEASE THISTLE

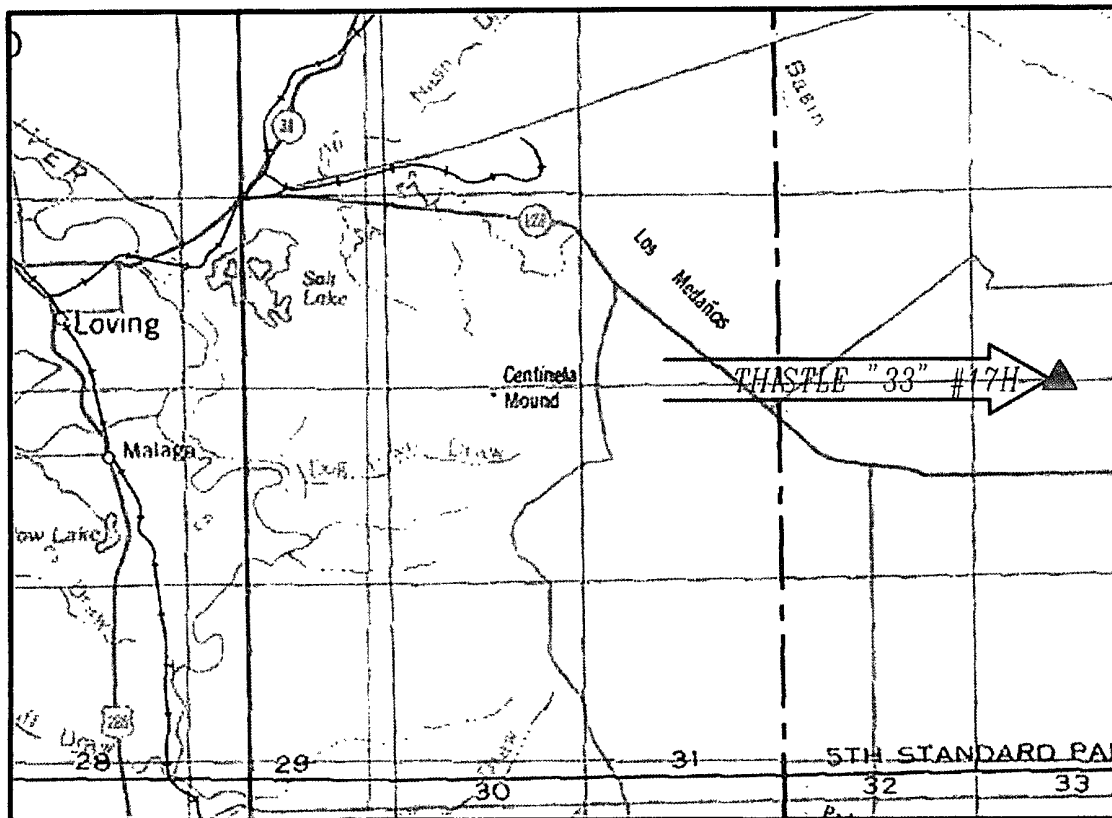
DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE "33" #17H
LOCATED 150 FT. FROM THE SOUTH LINE
AND 1470 FT. FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AUGUST 13, 2010

SURVEY NO. 198

MADRON SURVEYING, INC. 501 SOUTH CANAL (575) 887-5830 CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR. J2 (BRINNISTOOL) GO NORTH ON CR. J2 3.1 MILES TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS WEST 898' TO THE SE CORNER OF THE PROPOSED PAD FOR THIS LOCATION.

NOT TO SCALE

SEC. 33 TWP. 23-S RGE. 33-E
SURVEY N.M.P.M.
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 150' FSL & 1470' FEL
ELEVATION 3654.0'
OPERATOR DEVON ENERGY PRODUCTION COMPANY, LP
LEASE THISTLE

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE "33" #17H
LOCATED 150 FT. FROM THE SOUTH LINE
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SECTION 33, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

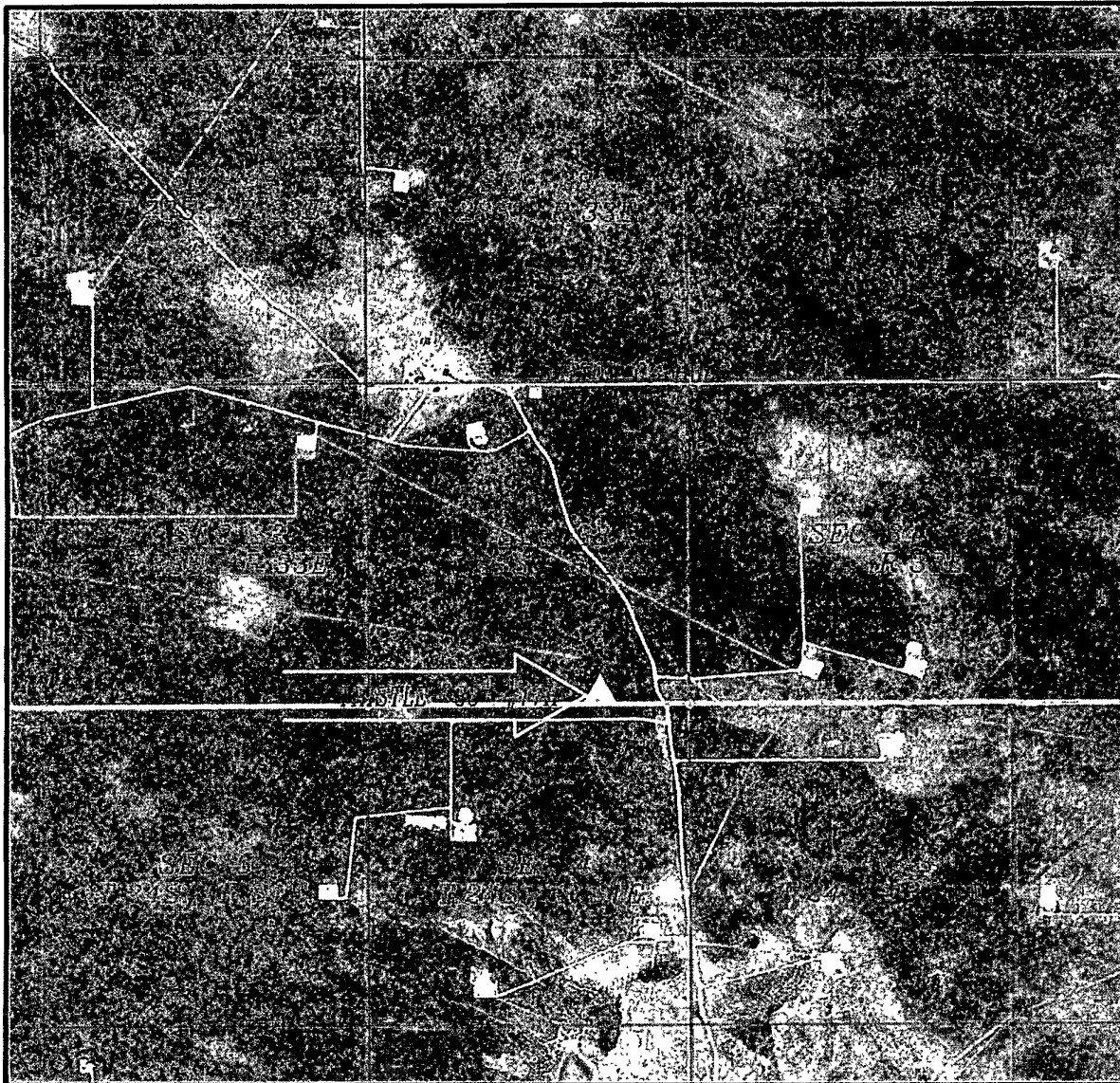
AUGUST 13, 2010

SURVEY NO. 198

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 887-5830 CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

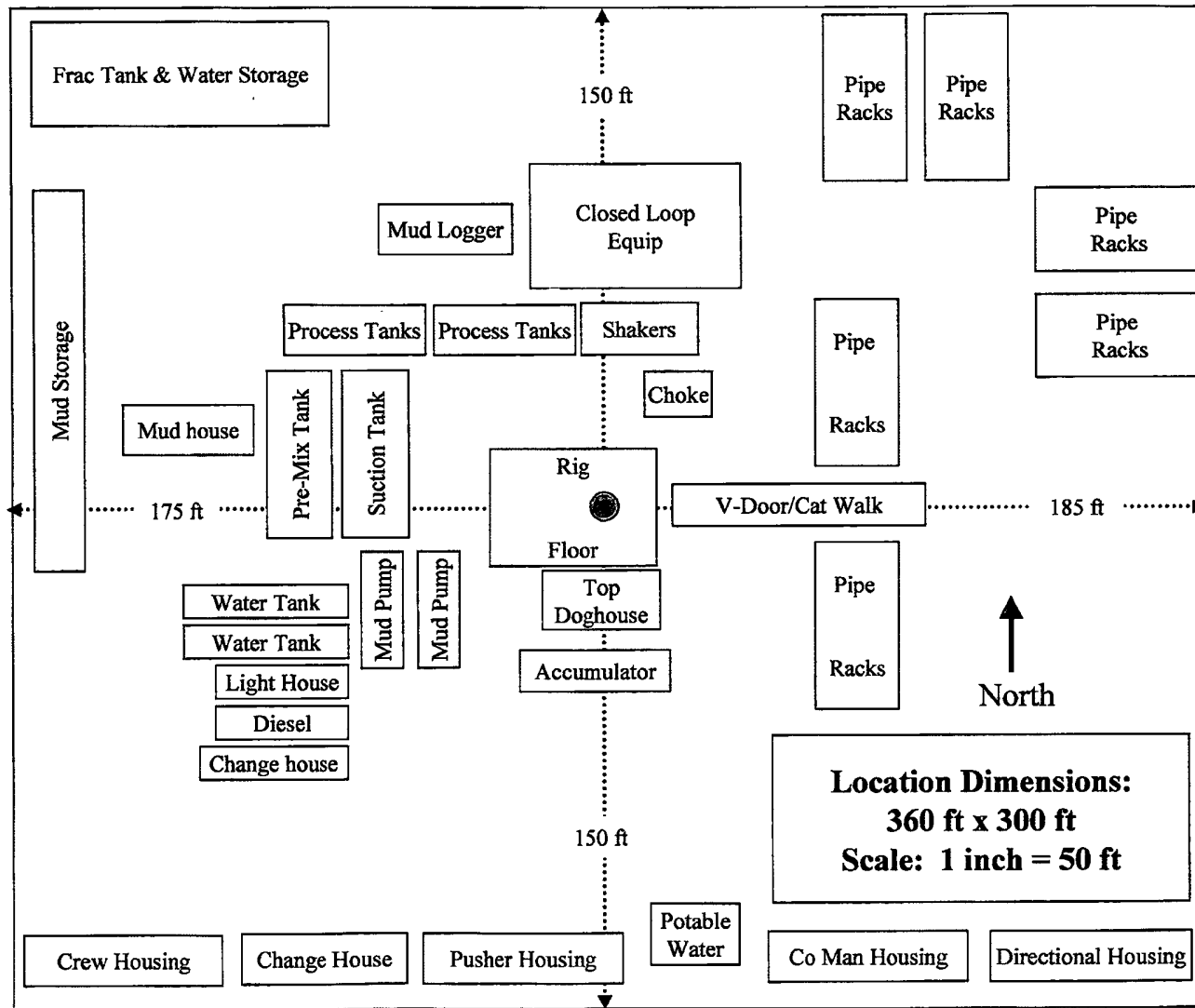
DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE "33" #17H
LOCATED 150 FT. FROM THE SOUTH LINE
AND 1470 FT. FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AUGUST 13, 2010

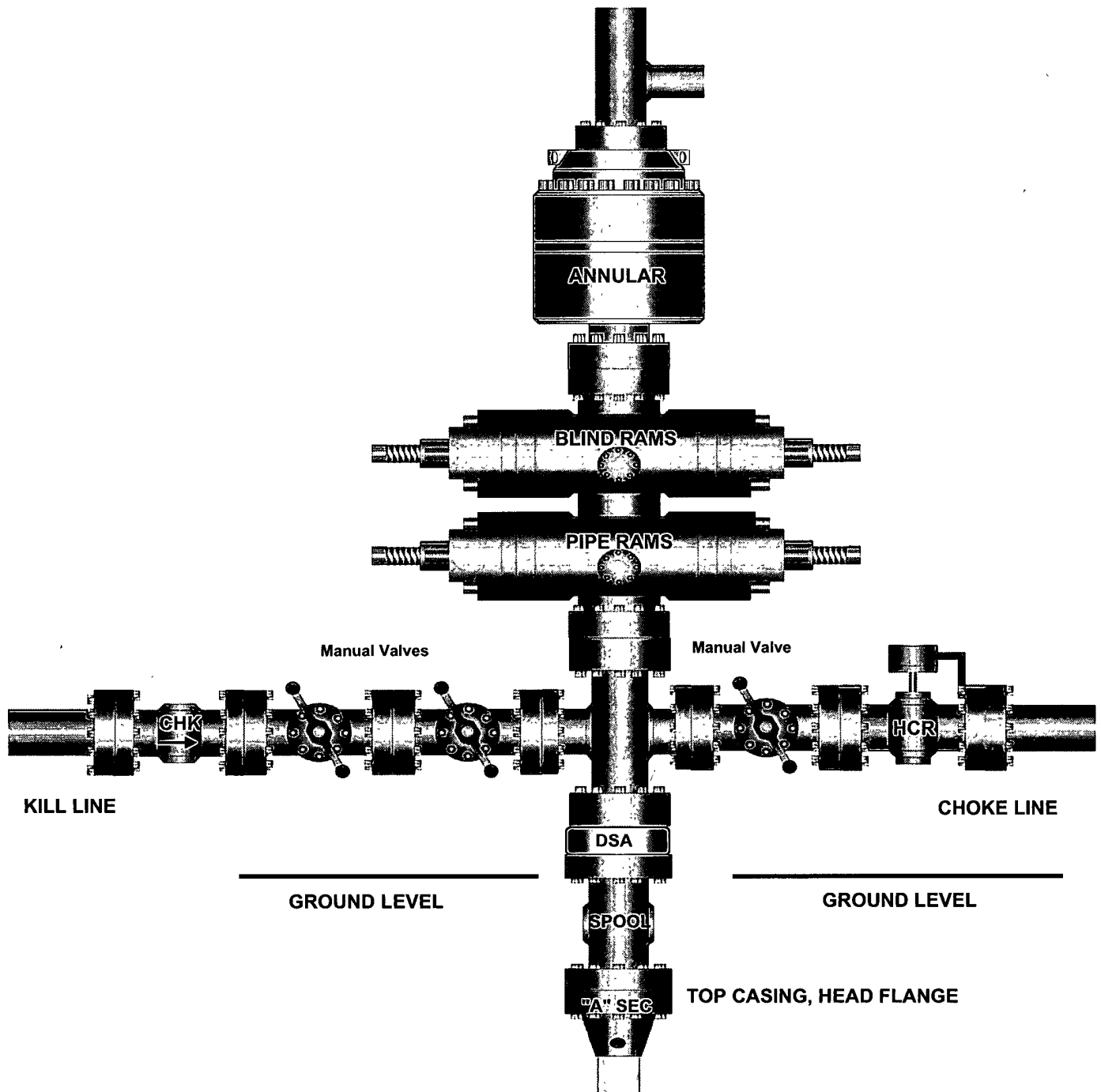
SURVEY NO. 198

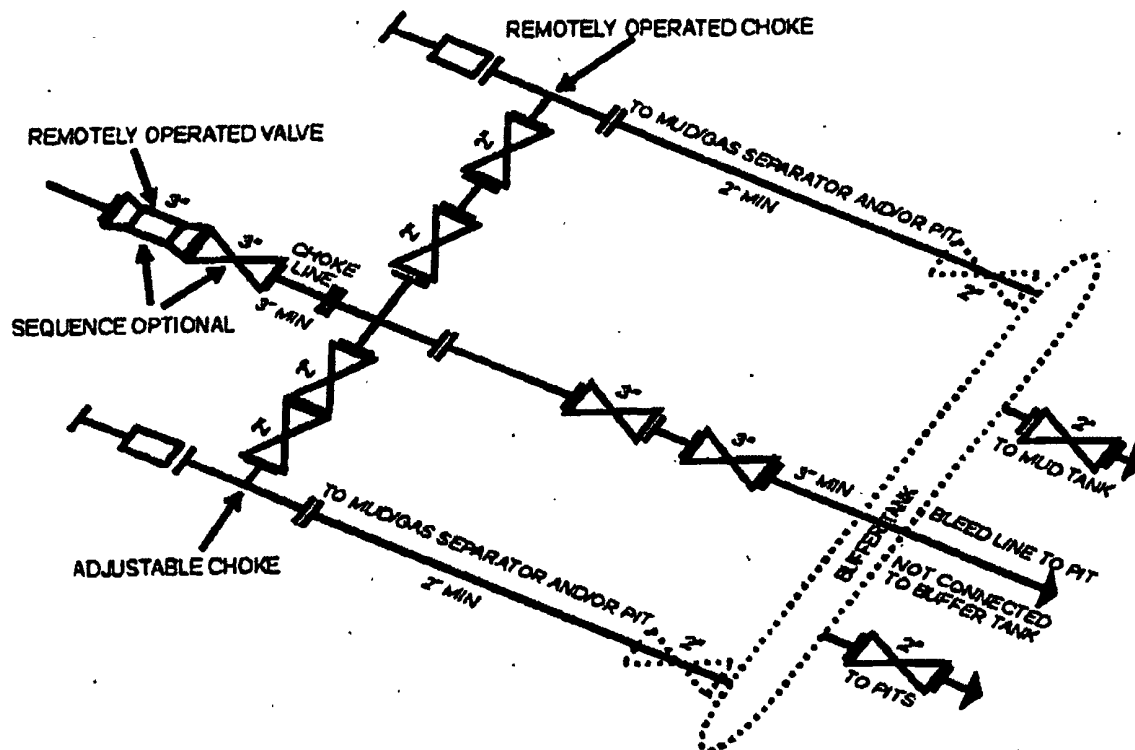
MADRON SURVEYING, INC. 901 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 887-5830

Conventional Rig Location Layout



13-5/8" x 5,000 psi BOP Stack





5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]



Project: Lea Co., New Mexico (Nad 83)
Site: Thistle Unit 33 Fed #17H
Well: Thistle Unit 33 Fed #17H
Wellbore: Lateral #1
Design: Design #1



SECTION DETAILS

Sec	MD	Inc	As	TVD	+N-S	+E-W	Drag	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8373.18	0.00	0.00	8373.18	0.00	0.00	0.00	0.00	0.00	
3	9262.49	90.93	348.42	8946.07	570.42	-116.83	10.00	348.42	582.26	
4	13784.20	90.93	348.42	8873.00	4980.00	-1020.00	0.00	0.00	5083.38	PBHL - TD (TU33F#17H)

ANNOTATIONS

TVD
8373.18
8946.07

MD
8373.18
9262.49

Annotation
KOP - Build 10°/100'
EOC - Hold 190.93° @ A:348.42°

PROJECT DETAILS: Lea Co., New Mexico (Nad 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - TD (TU33F#17H)	8873.00	4980.00	-1020.00	462406.96	775135.25	32° 16' 8.279 N	103° 34' 38.880 W	Shape Point

WELL DETAILS: Thistle Unit 33 Fed #17H

Ground Level:

WELL @ 3604.008 (Original Well Elev)

+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	457434.32	776190.47	32° 15' 19.000 N	103° 34' 25.000 W	

Plan, Design #1 (Thistle Unit 33 Fed #17H/Lateral #1)

Created By: Mike Starkey Date: 11:54, August 12 2010
Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

