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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 32-015-42224	² Pool Code 96437	³ Pool Name Happy Valley Bone Spring
⁴ Property Code 40471	⁵ Property Name DAISY DUKE 31 STATE COM.	⁶ Well Number 3H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3369.8

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
I	31	22 S	26 E		1980	SOUTH	175	EAST	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
3	31	22 S	26 E		1980	SOUTH	330	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
158.21			

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.

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.

DAISY DUKE 31 STATE COM. #3H
ELEV. = 3369.8'
LAT. = 32.3464474°N (NAD83)
LONG. = 104.3243523°W
NMSP EAST (FT)
N = 489769.61
E = 544111.00

BOTTOM OF HOLE
LAT. = 32.3463193°N
LONG. = 104.3395212°W
NMSP EAST (FT)
N = 489722.93
E = 539426.57

SURFACE LOCATION
LAT. = 32.3487749°N
LONG. = 104.3238041°W
NMSP EAST (FT)
N = 490616.32
E = 544280.22

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 hereinafter entered by the division.

Linda Good 3/21/2014
Signature Date

Linda Good
Printed Name

linda.good@dvn.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.

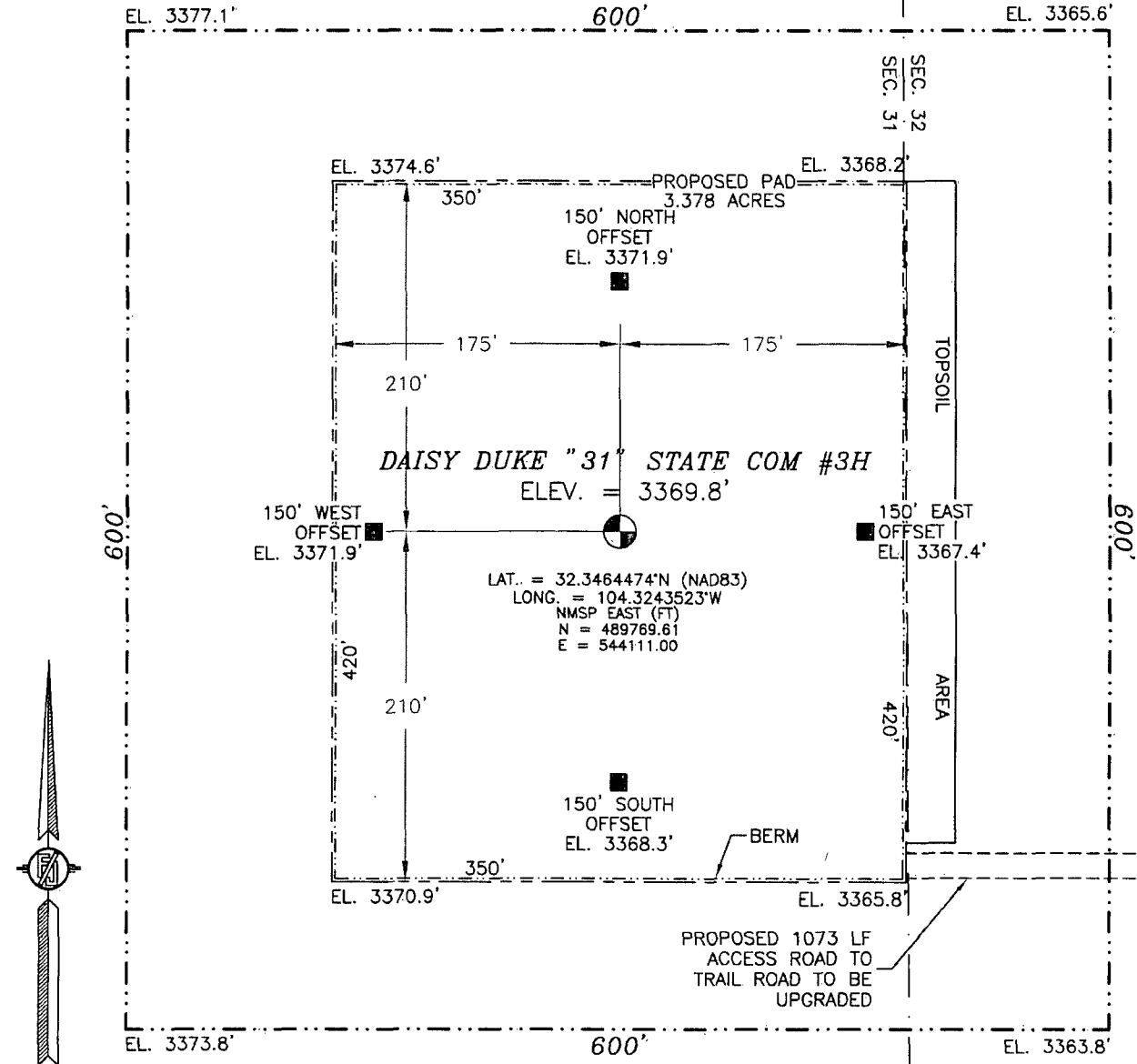
FEBRUARY 18, 2014 MEXICO
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

Certificate Number: PLS 12797
SURVEY NO. 2414A

SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 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



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NATIONAL PARKS HIGHWAY AND CR 672 (HILDAGO ROAD) GO WEST ON CR 672 APPROX. 5.3 MILES TO A LEASE ROAD ON RIGHT (NORTHWEST). TURN AT LEASE ROAD, FOLLOW ROAD APPROX. 0.4 MILES TO WEST SIDE OF EXISTING PAD. TURN RIGHT (NORTH) ON EXISTING TRAIL ROAD GO NORTH APPROX. 0.21 MILES TO ROAD LATH WITH RED AND WHITE FLAGGING, FOLLOW ROAD LATH GOING WEST APPROX. 0.2 MILES TO LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
DAISY DUKE "31" STATE COM #3H
LOCATED 1980 FT. FROM THE SOUTH LINE
AND 175 FT. FROM THE EAST LINE OF
SECTION 31, TOWNSHIP 22 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 13, 2014

SURVEY NO. 2414A

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

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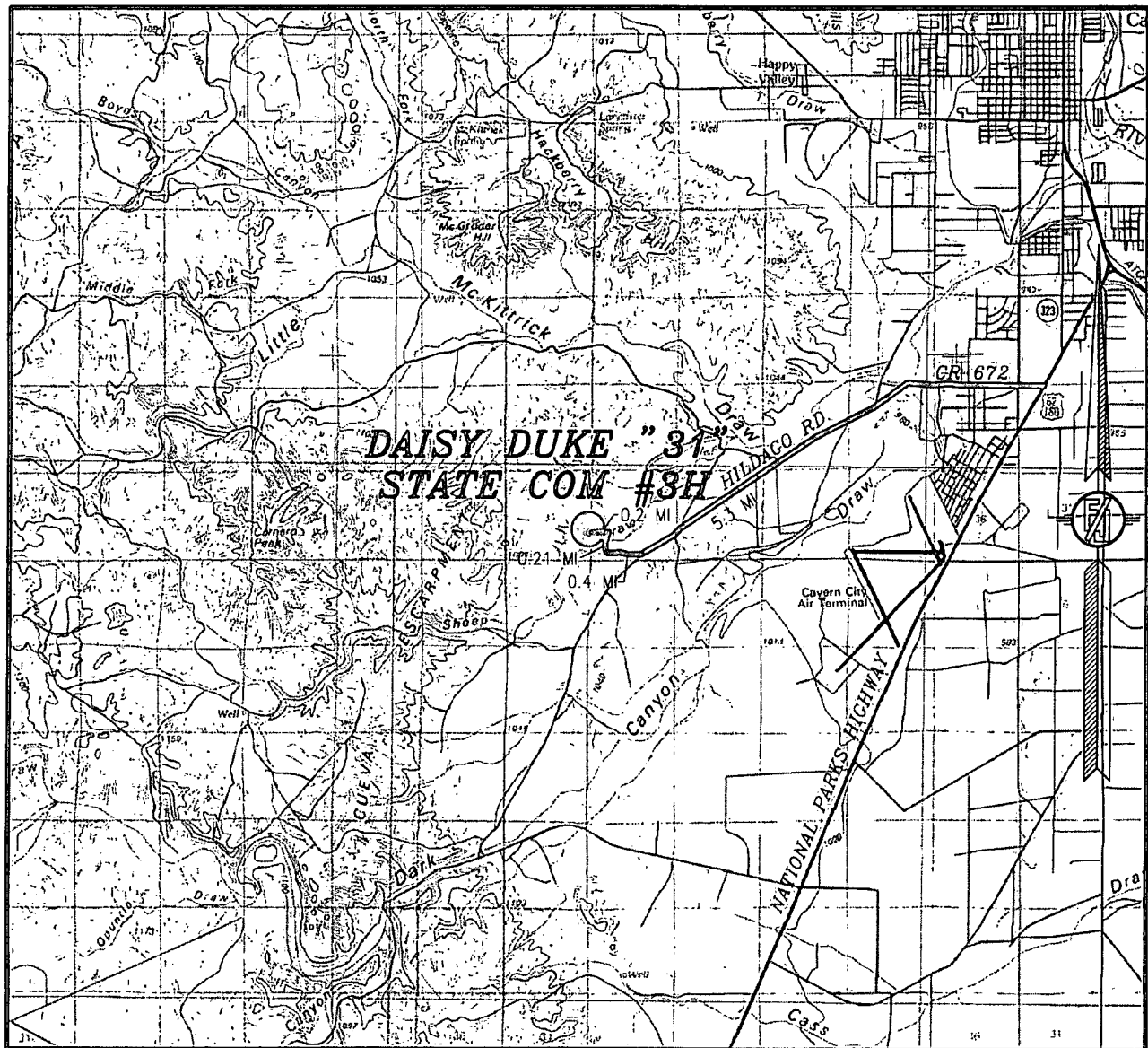
NOT TO SCALE

DAISY DUKE "31" STATE COM #3H
LOCATED 1980 FT. FROM THE SOUTH LINE
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SECTION 31, TOWNSHIP 22 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SURVEY NO. 2414A

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

SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

DAISY DUKE "31" STATE COM #3H
LOCATED 1980 FT. FROM THE SOUTH LINE
AND 175 FT. FROM THE EAST LINE OF
SECTION 31, TOWNSHIP 22 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 13, 2014

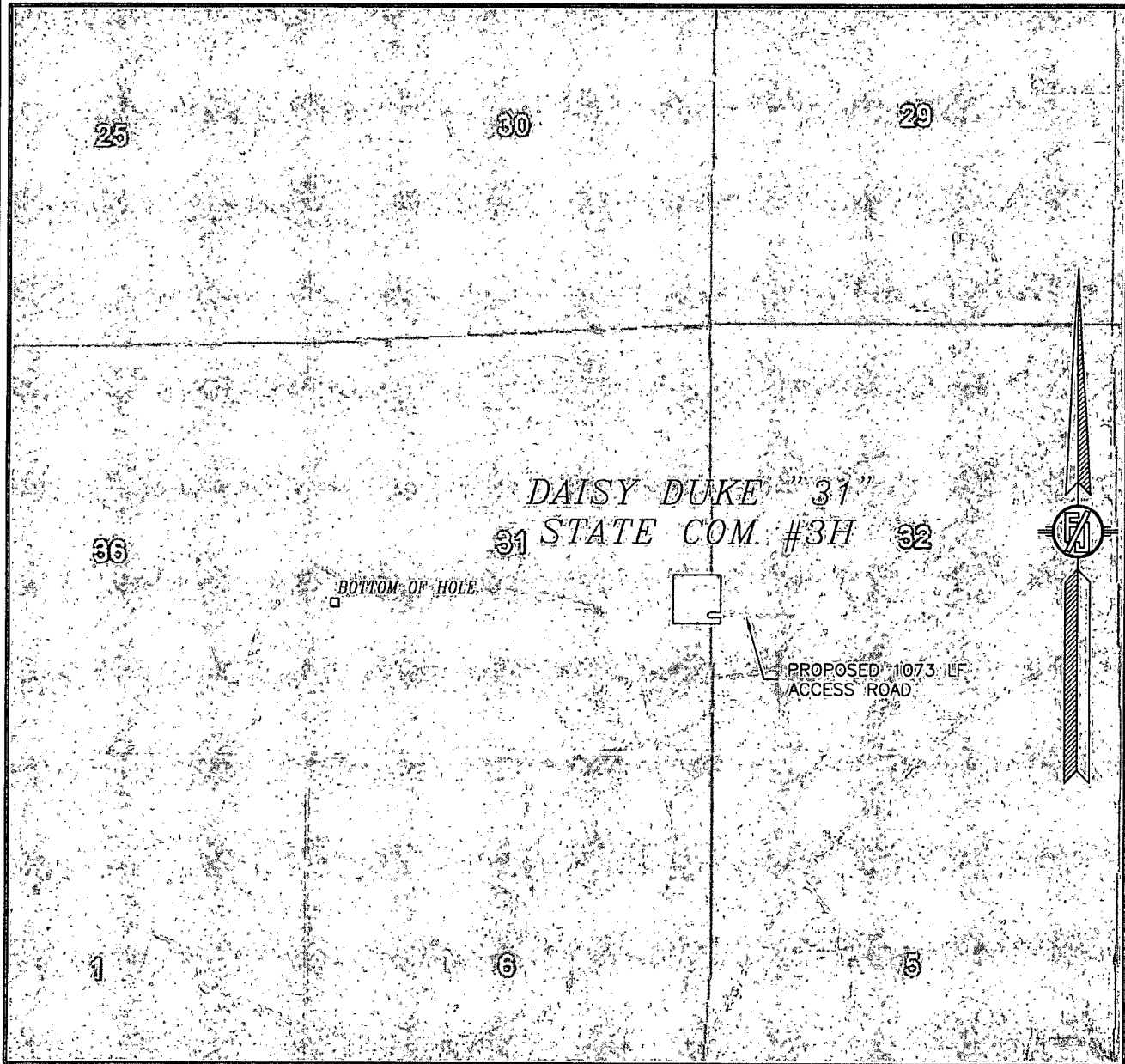
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NATIONAL PARKS HIGHWAY AND CR 672 (HILDAGO ROAD) GO WEST ON CR 672 APPROX. 5.3 MILES TO A LEASE ROAD ON RIGHT (NORTHWEST). TURN AT LEASE ROAD, FOLLOW ROAD APPROX. 0.4 MILES TO WEST SIDE OF EXISTING PAD. TURN RIGHT (NORTH) ON EXISTING TRAIL ROAD GO NORTH APPROX. 0.21 MILES TO ROAD LATH WITH RED AND WHITE FLAGGING, FOLLOW ROAD LATH GOING WEST APPROX. 0.2 MILES TO LOCATION.

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

SURVEY NO. 2414A
CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
DAISY DUKE "31" STATE COM #3H
LOCATED 1980 FT. FROM THE SOUTH LINE
AND 175 FT. FROM THE EAST LINE OF
SECTION 31, TOWNSHIP 22 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

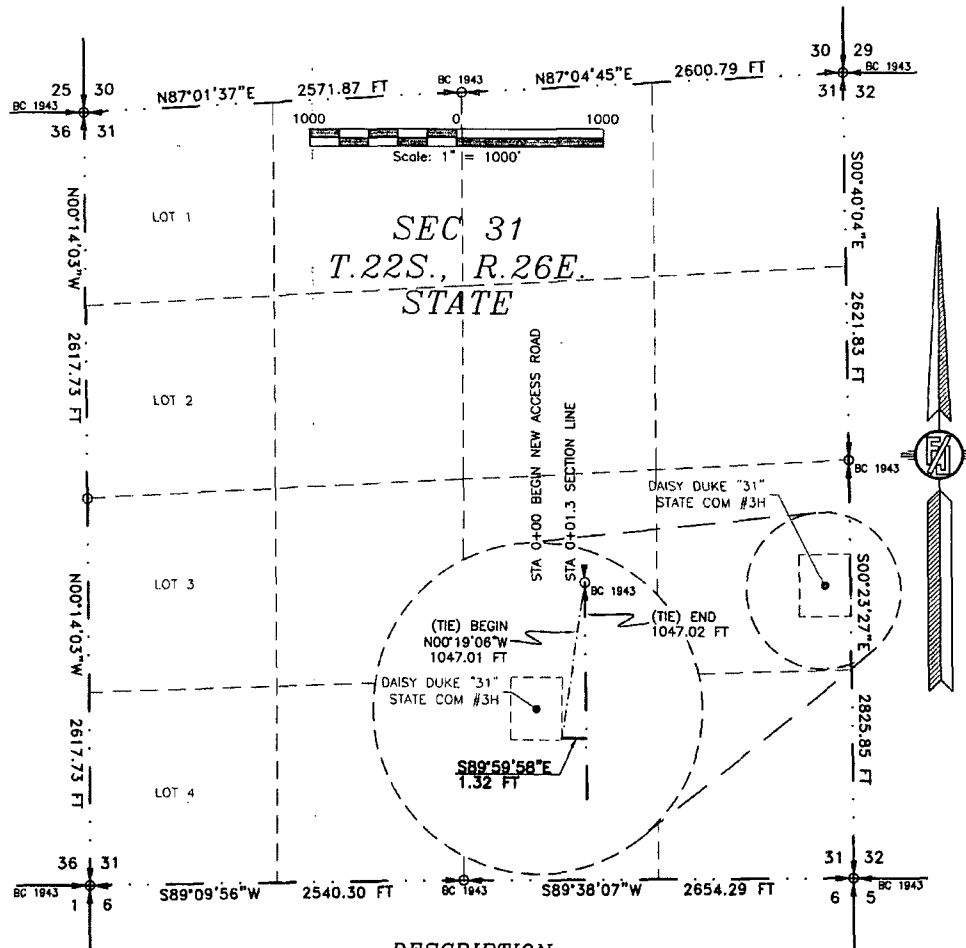
FEBRUARY 13, 2014

SURVEY NO. 2414A

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

ACCESS ROAD TO THE DAISY DUKE "31" STATE COM #3H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 27, 2014



DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 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 NE/4 SE/4 OF SAID SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N00°19'06\"W, A DISTANCE OF 1047.01 FEET;
THENCE S89°59'58\"E A DISTANCE OF 1.32 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N00°23'27\"W, A DISTANCE OF 1047.02 FEET;

SAID STRIP OF LAND BEING 1.32 FEET OR 0.08 RODS IN LENGTH, CONTAINING 0.001 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 1.32 L.F. 0.08 RODS 0.001 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 28 DAY OF FEBRUARY 2014

FILIMON F. JARAMILLO - PLS. 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. CARLSBAD, NEW MEXICO

SURVEY NO. 2747

[illegible]

A STRIP OF LAND 20 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 32, TOWNSHIP 22 SOUTH, RANGE 26 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 SW/4 SW/4 OF SAID SECTION 32, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 32, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N00°23'27"W, A DISTANCE OF 1047.02 FEET; THENCE S89°59'58"E A DISTANCE OF 1087.42 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S14°54'07"W A DISTANCE OF 239.82 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S19°08'22"W A DISTANCE OF 170.51 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S22°43'32"W A DISTANCE OF 200.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S00°44'57"E A DISTANCE OF 405.71 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S09°18'28"E A DISTANCE OF 202.99 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S67°11'16"E A DISTANCE OF 203.28 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N89°37'42"E A DISTANCE OF 200.75 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N75°34'30"E A DISTANCE OF 201.98 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N84°00'51"E A DISTANCE OF 200.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S74°33'52"E A DISTANCE OF 403.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S85°12'54"E A DISTANCE OF 200.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N88°36'35"E A DISTANCE OF 201.23 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S87°18'09"E A DISTANCE OF 404.78 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°45'18"E A DISTANCE OF 201.93 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S78°40'09"E A DISTANCE OF 135.64 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 32, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S54°35'07"W, A DISTANCE OF 698.24 FEET;

NW/4 SW/4	1472.20	L.F.	89.22	RODS	0.676	ACRES
SW/4 SW/4	1259.64	L.F.	76.34	RODS	0.578	ACRES
SE/4 SW/4	1353.07	L.F.	82.00	RODS	0.621	ACRES
SW/4 SE/4	576.85	L.F.	34.96	RODS	0.265	ACRES

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.

NEW MEXICO, THIS 14 DAY, OF FEBRUARY, 2014

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

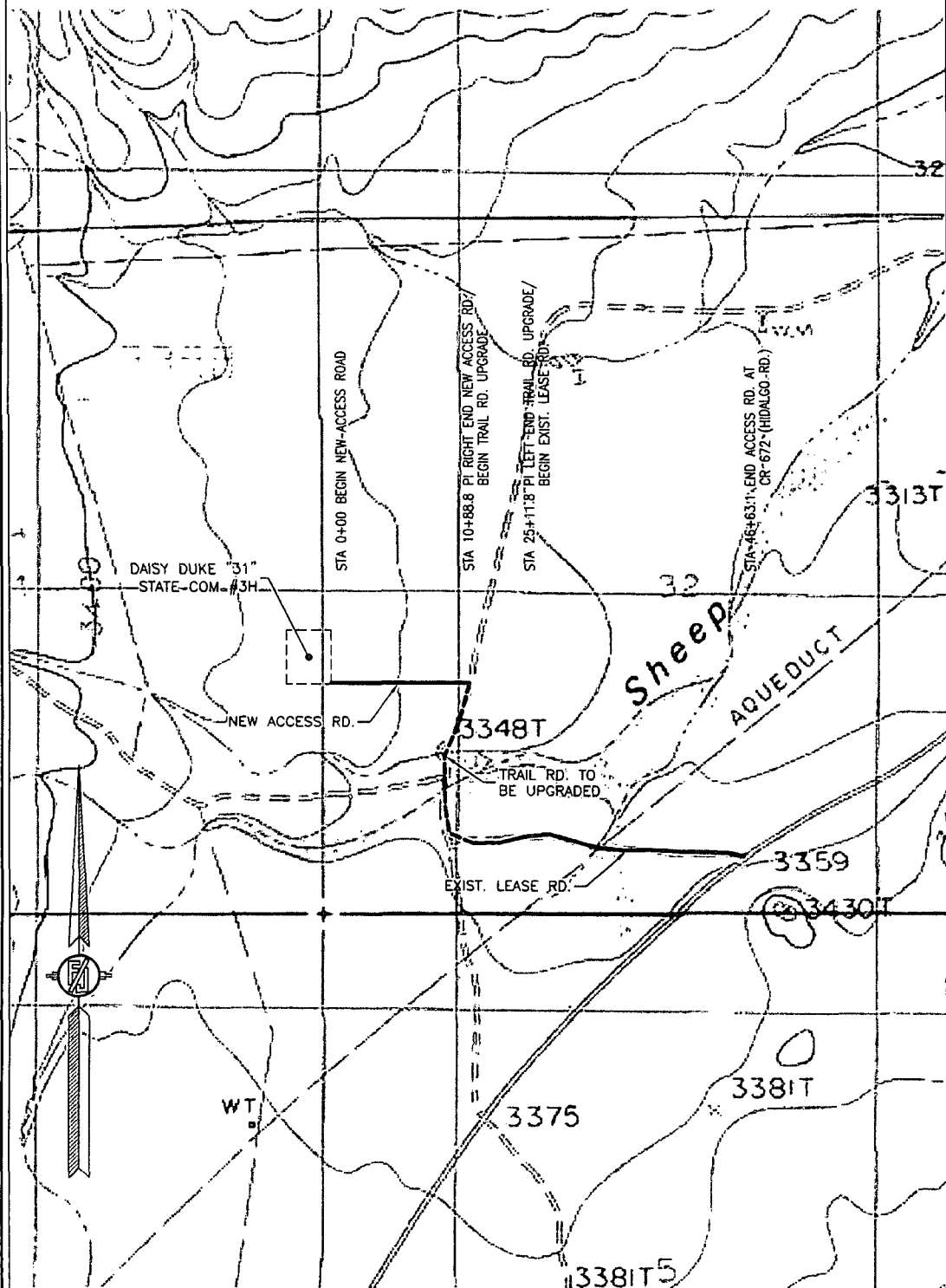
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

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

SURVEY NO. 2747

ACCESS ROAD TO THE DAISY DUKE "31" STATE COM #3H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 31, 32, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 27, 2014



SHEET: 3-4

MADRON SURVEYING, INC.

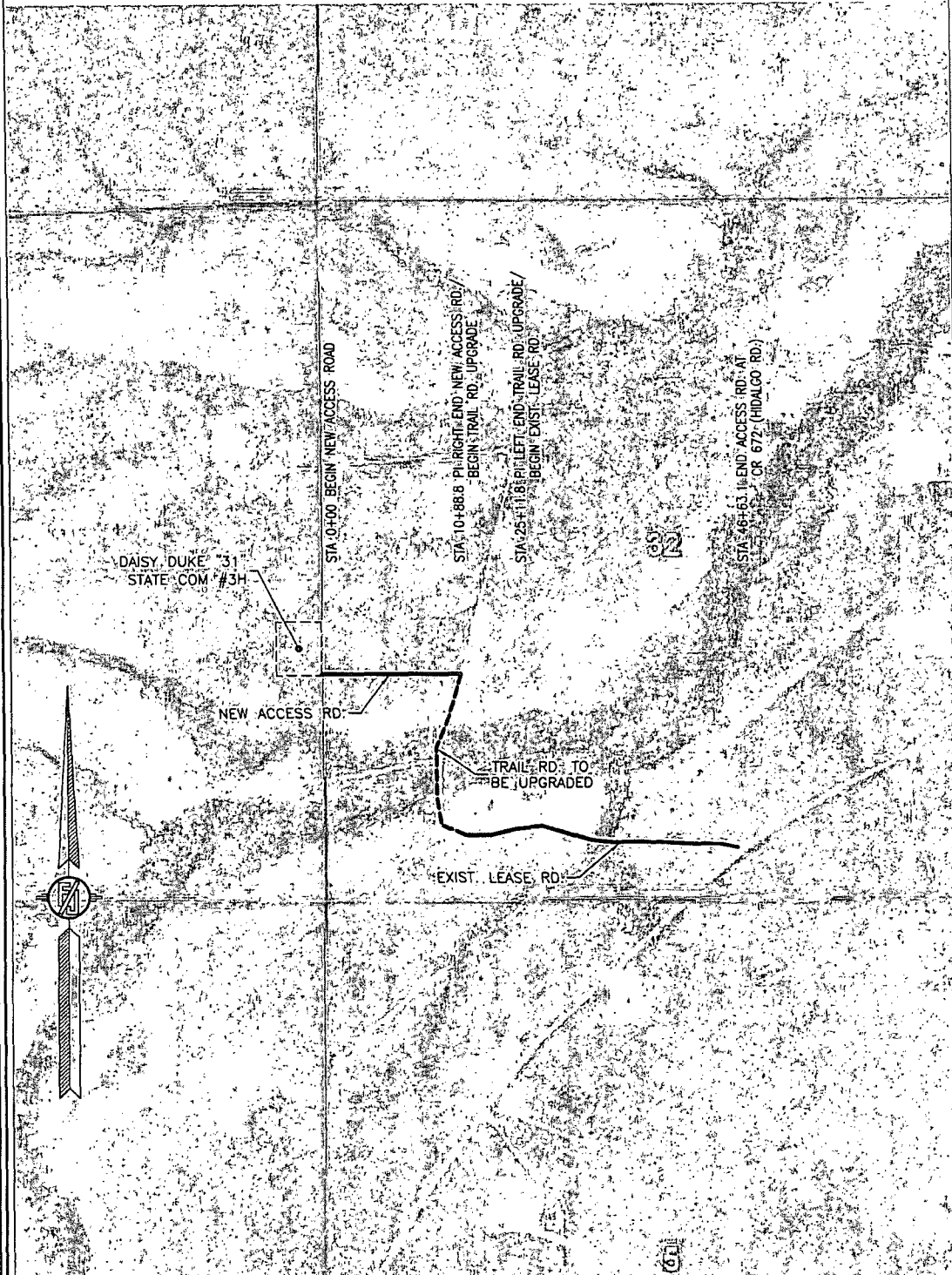
301 SOUTH CANAL
(575) 234-5341

CARLSBAD, NEW MEXICO

SURVEY NO. 2747

ACCESS ROAD TO THE DAISY DUKE "31" STATE COM #3H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 31, 32, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 27, 2014



SHEET: 4-4

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 2747

DRILLING PROGRAM

Devon Energy Production Company, L.P.
Daisy Duke State Com 3H

1. **Geologic Name of Surface Formation:** Quaternary
2. **Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:**

a.	Fresh Water	367	-
b.	Rustler	105	Barren
c.	Capitan	688	Barren
d.	Capitan Base	1237	Barren
e.	Lamar	1241	Barren
f.	Delaware	1614	Oil / Gas
g.	Cherry Canyon	2418	Oil / Gas
h.	Brushy Canyon	3335	Oil / Gas
i.	Bone Spring Lm	4826	Oil / Gas
j.	1st Bone Spring Ss	5740	Oil / Gas
k.	2nd Bone Spring Lime	5947	Oil / Gas
l.	2nd Bone Spring Ss	6223	Oil / Gas
m.	3rd Bone Spring Lime	6432	Oil / Gas
n.	3rd Bone Spring Ss	8049	Oil / Gas
o.	3rd Bone Spring Ss Basal Mrkr	8446	Oil / Gas

Total Depths	6240' TVD	10842' MD	8600' PH
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3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

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.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 400'	13-3/8"	0 - 400'	48	BTC	H-40	4.30	9.67	28.18
12-1/4"	400-1700'	9-5/8"	0-1700'	36	LTC	J-55	2.29	3.98	7.40
8-3/4"	1700-10842'	5-1/2"	0-10842'	17	LTC	P-110	2.82	3.50	5.25

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 6362'

5. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-400'	8.4-8.6	30-34	N/C	FW
400-1700'	10.0	28-32	N/C	Brine
1700-10842'	8.6-9.2	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface	400	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate	330	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	220	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
Pilot Hole Plug Back	1130	15.6	5.39	1.19	Plug Cement	Class H Cement + 0.2% Halad-9 + 0.2% HR-601 + 60.5 % Fresh Water
5-1/2" Production Casing Single Stage	550	11.0	15.23	2.71	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	1310	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
5-1/2" Production Casing 2-Stage Option	230	12.5	10.86	1.96	Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1310	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
	DV Tool @ 4500ft					
	390	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	120	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water

TOC for all Strings:

Surface @ 0'
 Intermediate @ 0'
 Production @ 1200'

Notes:

- Cement volumes Surface 100%, Intermediate 50%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data
- If lost circulation is encountered while drilling the production wellbore, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

DEVON ENERGY

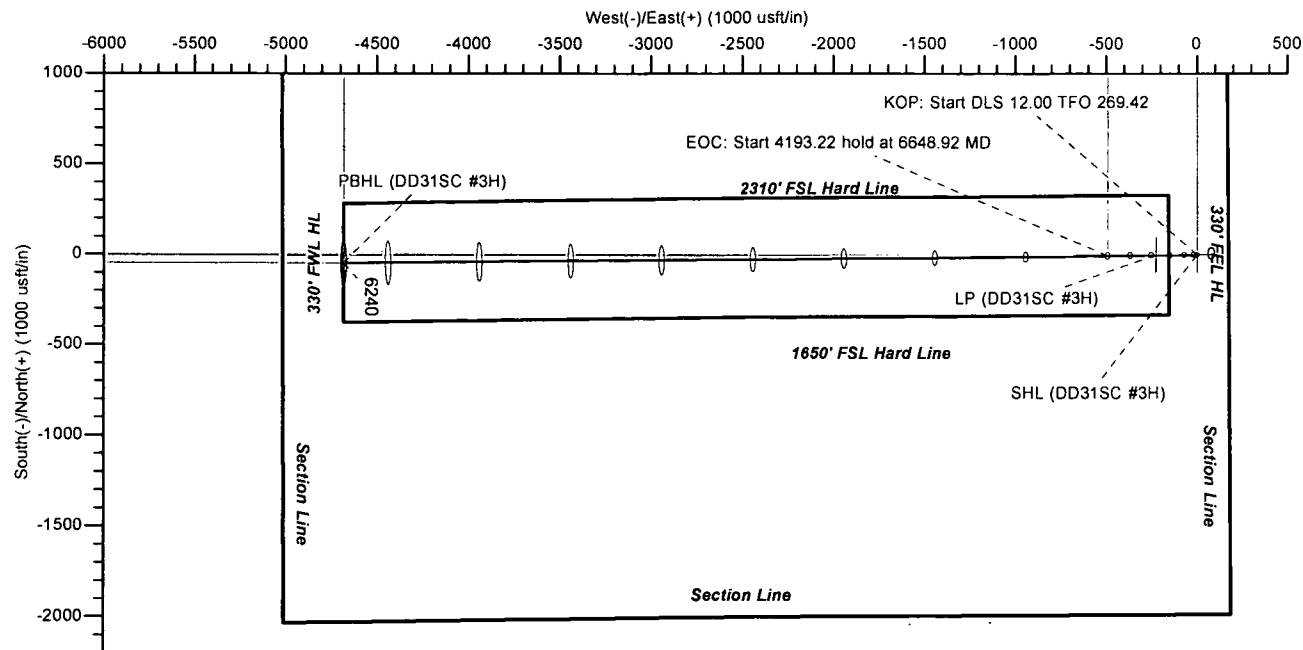
Project: Eddy County, NM (NAD-83)
 Site: Daisy Duke 31 State Com
 Well: #3H
 Wellbore: OH
 Design: Plan #1 Draft 1

devon



Azimuths to Grid North
 True North: -0.01°
 Magnetic North: 7.72°
 Magnetic Field
 Strength: 48305.8snT
 Dip Angle: 60.08°
 Date: 03/05/2014
 Model: BGGM2013

PROJECT DETAILS: Eddy County, NM (NAD-83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

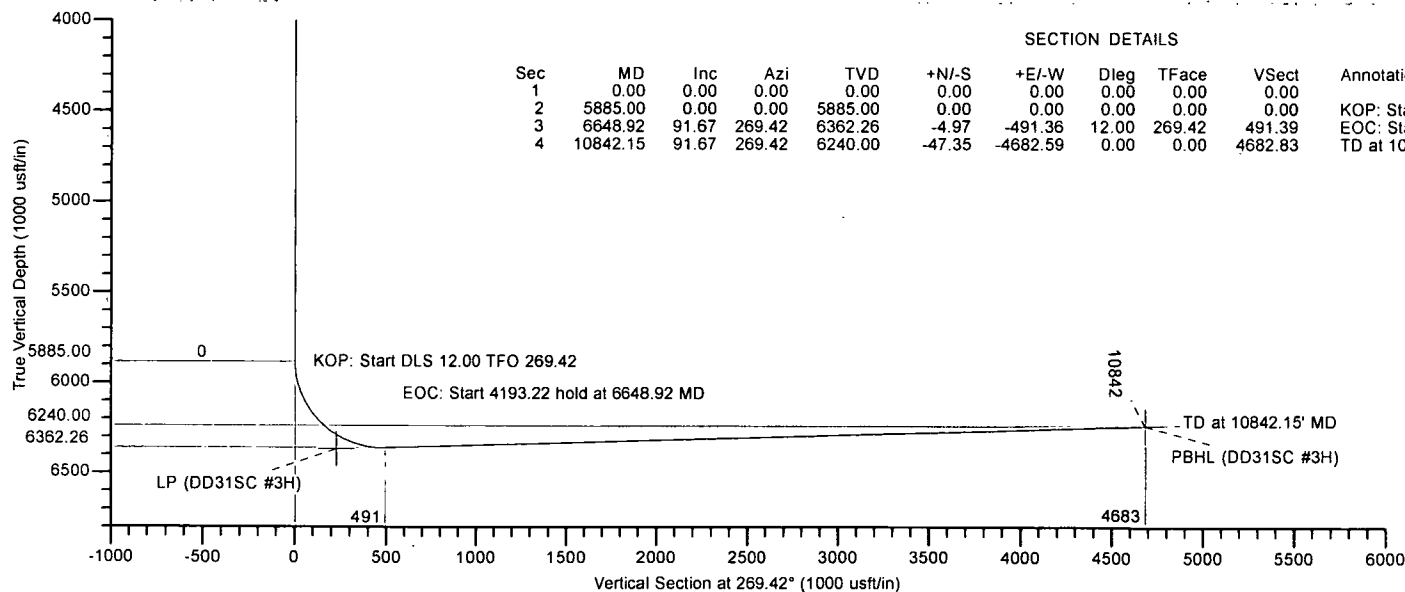


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (DD31SC #3H)	0.00	0.00	0.00	489769.61	544111.00	32° 20' 47.211 N	104° 19' 27.668 W
PBHL (DD31SC #3H)	6240.00	-47.35	-4682.59	489722.26	539428.41	32° 20' 46.743 N	104° 20' 22.255 W
LP (DD31SC #3H)	6370.00	-0.96	-225.01	489768.65	543885.99	32° 20' 47.201 N	104° 19' 30.291 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5885.00	0.00	0.00	5885.00	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 12.00 TFO 269.42
3	6648.92	91.67	269.42	6362.26	-4.97	-491.36	12.00	269.42	491.39	EOC: Start 4193.22 hold at 6648.92 MD
4	10842.15	91.67	269.42	6240.00	-47.35	-4682.59	0.00	0.00	4682.83	TD at 10842.15' MD



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft 1 (#3H/OH)
 Daisy Duke 31 State Com
 Created By: Heber Claros Date: 8:42, March 05 2014
 Date: _____
 Approved: _____ Date: _____

DEVON ENERGY

Eddy County, NM (NAD-83)

Daisy Duke 31 State Com

#3H

OH

Plan: Plan #1 Draft 1

Standard Planning Report

05 March, 2014

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	DEVON ENERGY	TVD Reference:	GE 3370' + KB 25' @ 3395.00usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3370' + KB 25' @ 3395.00usft
Site:	Daisy Duke 31 State Com	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Daisy Duke 31 State Com			
Site Position:		Northing:	489,769.61 usft	Latitude:	32° 20' 47.211 N
From:	Map	Easting:	544,111.00 usft	Longitude:	104° 19' 27.668 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	#3H					
Well Position	+N/-S	0.00 usft	Northing:	489,769.61 usft	Latitude:	32° 20' 47.211 N
	+E/-W	0.00 usft	Easting:	544,111.00 usft	Longitude:	104° 19' 27.668 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,370.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	03/05/14	7.73	60.08	48,306

Design		Plan #1 Draft 1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.42

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,885.00	0.00	0.00	5,885.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,648.92	91.67	269.42	6,362.26	-4.97	-491.36	12.00	12.00	-11.86	269.42	
10,842.15	91.67	269.42	6,240.00	-47.35	-4,682.59	0.00	0.00	0.00	0.00	PBHL (DD31SC #3H)

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	DEVON ENERGY	TVD Reference:	GE 3370' + KB 25' @ 3395.00usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3370' + KB 25' @ 3395.00usft
Site:	Daisy Duke 31 State Com	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,885.00	0.00	0.00	5,885.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 12.00 TFO 269.42									
5,900.00	1.80	269.42	5,900.00	0.00	-0.24	0.24	12.00	12.00	0.00
5,925.00	4.80	269.42	5,924.95	-0.02	-1.67	1.67	12.00	12.00	0.00
5,950.00	7.80	269.42	5,949.80	-0.04	-4.42	4.42	12.00	12.00	0.00
5,975.00	10.80	269.42	5,974.47	-0.09	-8.46	8.46	12.00	12.00	0.00
6,000.00	13.80	269.42	5,998.89	-0.14	-13.78	13.78	12.00	12.00	0.00
6,025.00	16.80	269.42	6,023.00	-0.21	-20.38	20.38	12.00	12.00	0.00
6,050.00	19.80	269.42	6,046.74	-0.29	-28.23	28.23	12.00	12.00	0.00
6,075.00	22.80	269.42	6,070.03	-0.38	-37.31	37.31	12.00	12.00	0.00
6,100.00	25.80	269.42	6,092.81	-0.48	-47.59	47.59	12.00	12.00	0.00
6,125.00	28.80	269.42	6,115.02	-0.60	-59.06	59.06	12.00	12.00	0.00
6,150.00	31.80	269.42	6,136.60	-0.72	-71.67	71.67	12.00	12.00	0.00
6,175.00	34.80	269.42	6,157.50	-0.86	-85.39	85.39	12.00	12.00	0.00
6,200.00	37.80	269.42	6,177.64	-1.01	-100.19	100.19	12.00	12.00	0.00
6,225.00	40.80	269.42	6,196.99	-1.17	-116.02	116.03	12.00	12.00	0.00
6,250.00	43.80	269.42	6,215.47	-1.34	-132.84	132.85	12.00	12.00	0.00
6,275.00	46.80	269.42	6,233.06	-1.52	-150.61	150.62	12.00	12.00	0.00
6,300.00	49.80	269.42	6,249.69	-1.71	-169.27	169.28	12.00	12.00	0.00
6,325.00	52.80	269.42	6,265.32	-1.91	-188.78	188.79	12.00	12.00	0.00
6,350.00	55.80	269.42	6,279.90	-2.11	-209.08	209.09	12.00	12.00	0.00
6,375.00	58.80	269.42	6,293.41	-2.33	-230.11	230.13	12.00	12.00	0.00
6,400.00	61.80	269.42	6,305.79	-2.55	-251.83	251.84	12.00	12.00	0.00
6,404.88	62.39	269.42	6,308.08	-2.59	-256.14	256.15	12.00	12.00	0.00
LP (DD31SC #3H)									
6,425.00	64.80	269.42	6,317.02	-2.77	-274.16	274.17	12.00	12.00	0.00
6,450.00	67.80	269.42	6,327.07	-3.00	-297.04	297.06	12.00	12.00	0.00
6,475.00	70.80	269.42	6,335.91	-3.24	-320.43	320.44	12.00	12.00	0.00
6,500.00	73.80	269.42	6,343.51	-3.48	-344.24	344.26	12.00	12.00	0.00
6,525.00	76.80	269.42	6,349.85	-3.73	-368.42	368.44	12.00	12.00	0.00
6,550.00	79.80	269.42	6,354.92	-3.97	-392.89	392.91	12.00	12.00	0.00
6,575.00	82.80	269.42	6,358.70	-4.22	-417.60	417.62	12.00	12.00	0.00
6,600.00	85.80	269.42	6,361.18	-4.47	-442.47	442.50	12.00	12.00	0.00
6,625.00	88.80	269.42	6,362.36	-4.73	-467.44	467.47	12.00	12.00	0.00
6,648.92	91.67	269.42	6,362.26	-4.97	-491.36	491.39	12.00	12.00	0.00
EOC: Start 4193.22 hold at 6648.92 MD									
6,700.00	91.67	269.42	6,360.77	-5.49	-542.41	542.44	0.00	0.00	0.00
6,800.00	91.67	269.42	6,357.86	-6.50	-642.37	642.40	0.00	0.00	0.00
6,900.00	91.67	269.42	6,354.94	-7.51	-742.32	742.36	0.00	0.00	0.00
7,000.00	91.67	269.42	6,352.03	-8.52	-842.27	842.31	0.00	0.00	0.00
7,100.00	91.67	269.42	6,349.11	-9.53	-942.22	942.27	0.00	0.00	0.00
7,200.00	91.67	269.42	6,346.19	-10.54	-1,042.18	1,042.23	0.00	0.00	0.00
7,300.00	91.67	269.42	6,343.28	-11.55	-1,142.13	1,142.19	0.00	0.00	0.00
7,400.00	91.67	269.42	6,340.36	-12.56	-1,242.08	1,242.14	0.00	0.00	0.00
7,500.00	91.67	269.42	6,337.45	-13.57	-1,342.03	1,342.10	0.00	0.00	0.00
7,600.00	91.67	269.42	6,334.53	-14.58	-1,441.98	1,442.06	0.00	0.00	0.00
7,700.00	91.67	269.42	6,331.62	-15.59	-1,541.94	1,542.02	0.00	0.00	0.00
7,800.00	91.67	269.42	6,328.70	-16.60	-1,641.89	1,641.97	0.00	0.00	0.00
7,900.00	91.67	269.42	6,325.78	-17.61	-1,741.84	1,741.93	0.00	0.00	0.00
8,000.00	91.67	269.42	6,322.87	-18.63	-1,841.79	1,841.89	0.00	0.00	0.00
8,100.00	91.67	269.42	6,319.95	-19.64	-1,941.75	1,941.85	0.00	0.00	0.00
8,200.00	91.67	269.42	6,317.04	-20.65	-2,041.70	2,041.80	0.00	0.00	0.00
8,300.00	91.67	269.42	6,314.12	-21.66	-2,141.65	2,141.76	0.00	0.00	0.00

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #3H
Company:	DEVON ENERGY	TVD Reference:	GE 3370' + KB 25' @ 3395.00usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3370' + KB 25' @ 3395.00usft
Site:	Daisy Duke 31 State Com	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,400.00	91.67	269.42	6,311.21	-22.67	-2,241.60	2,241.72	0.00	0.00	0.00	
8,500.00	91.67	269.42	6,308.29	-23.68	-2,341.56	2,341.68	0.00	0.00	0.00	
8,600.00	91.67	269.42	6,305.37	-24.69	-2,441.51	2,441.63	0.00	0.00	0.00	
8,700.00	91.67	269.42	6,302.46	-25.70	-2,541.46	2,541.59	0.00	0.00	0.00	
8,800.00	91.67	269.42	6,299.54	-26.71	-2,641.41	2,641.55	0.00	0.00	0.00	
8,900.00	91.67	269.42	6,296.63	-27.72	-2,741.37	2,741.51	0.00	0.00	0.00	
9,000.00	91.67	269.42	6,293.71	-28.73	-2,841.32	2,841.46	0.00	0.00	0.00	
9,100.00	91.67	269.42	6,290.80	-29.74	-2,941.27	2,941.42	0.00	0.00	0.00	
9,200.00	91.67	269.42	6,287.88	-30.75	-3,041.22	3,041.38	0.00	0.00	0.00	
9,300.00	91.67	269.42	6,284.96	-31.77	-3,141.18	3,141.34	0.00	0.00	0.00	
9,400.00	91.67	269.42	6,282.05	-32.78	-3,241.13	3,241.29	0.00	0.00	0.00	
9,500.00	91.67	269.42	6,279.13	-33.79	-3,341.08	3,341.25	0.00	0.00	0.00	
9,600.00	91.67	269.42	6,276.22	-34.80	-3,441.03	3,441.21	0.00	0.00	0.00	
9,700.00	91.67	269.42	6,273.30	-35.81	-3,540.98	3,541.17	0.00	0.00	0.00	
9,800.00	91.67	269.42	6,270.39	-36.82	-3,640.94	3,641.12	0.00	0.00	0.00	
9,900.00	91.67	269.42	6,267.47	-37.83	-3,740.89	3,741.08	0.00	0.00	0.00	
10,000.00	91.67	269.42	6,264.55	-38.84	-3,840.84	3,841.04	0.00	0.00	0.00	
10,100.00	91.67	269.42	6,261.64	-39.85	-3,940.79	3,941.00	0.00	0.00	0.00	
10,200.00	91.67	269.42	6,258.72	-40.86	-4,040.75	4,040.95	0.00	0.00	0.00	
10,300.00	91.67	269.42	6,255.81	-41.87	-4,140.70	4,140.91	0.00	0.00	0.00	
10,400.00	91.67	269.42	6,252.89	-42.88	-4,240.65	4,240.87	0.00	0.00	0.00	
10,500.00	91.67	269.42	6,249.98	-43.89	-4,340.60	4,340.83	0.00	0.00	0.00	
10,600.00	91.67	269.42	6,247.06	-44.90	-4,440.56	4,440.78	0.00	0.00	0.00	
10,700.00	91.67	269.42	6,244.14	-45.92	-4,540.51	4,540.74	0.00	0.00	0.00	
10,800.00	91.67	269.42	6,241.23	-46.93	-4,640.46	4,640.70	0.00	0.00	0.00	
10,842.15	91.67	269.42	6,240.00	-47.35	-4,682.59	4,682.83	0.00	0.00	0.00	
TD at 10842.15' MD - PBHL (DD31SC #3H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL (DD31SC #3H)	0.00	0.00	0.00	0.00	0.00	489,769.61	544,111.00	32° 20' 47.211 N	104° 19' 27.668 W	
- hit/miss target										
- Shape										
- plan misses target center by 5885.00usft at 5885.00usft MD (5885.00 TVD, 0.00 N, 0.00 E)										
- Point										
PBHL (DD31SC #3H)	0.00	0.01	6,240.00	-47.35	-4,682.59	489,722.26	539,428.41	32° 20' 46.743 N	104° 20' 22.255 W	
- plan hits target center										
- Point										
LP (DD31SC #3H)	0.00	0.00	6,370.00	-0.96	-225.01	489,768.65	543,885.99	32° 20' 47.201 N	104° 19' 30.291 W	
- plan misses target center by 69.33usft at 6404.88usft MD (6308.07 TVD, -2.59 N, -256.14 E)										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,885.00	5,885.00	0.00	0.00	KOP: Start DLS 12.00 TFO 269.42	
6,648.92	6,362.26	-4.97	-491.36	EOC: Start 4193.22 hold at 6648.92 MD	
10,842.15	6,240.00	-47.35	-4,682.59	TD at 10842.15' MD	

MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN	VSECT
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00

4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00
5885.00	0.00	0.00	5885.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	1.80	269.42	5900.00	0.00	-0.24	12.00	12.00	0.00	0.24
5925.00	4.80	269.42	5924.95	-0.02	-1.67	12.00	12.00	0.00	1.67
5950.00	7.80	269.42	5949.80	-0.04	-4.42	12.00	12.00	0.00	4.42
5975.00	10.80	269.42	5974.47	-0.09	-8.46	12.00	12.00	0.00	8.46
6000.00	13.80	269.42	5998.89	-0.14	-13.78	12.00	12.00	0.00	13.78
6025.00	16.80	269.42	6023.00	-0.21	-20.38	12.00	12.00	0.00	20.38
6050.00	19.80	269.42	6046.74	-0.29	-28.23	12.00	12.00	0.00	28.23
6075.00	22.80	269.42	6070.03	-0.38	-37.31	12.00	12.00	0.00	37.31
6100.00	25.80	269.42	6092.81	-0.48	-47.59	12.00	12.00	0.00	47.59
6125.00	28.80	269.42	6115.02	-0.60	-59.06	12.00	12.00	0.00	59.06
6150.00	31.80	269.42	6136.60	-0.72	-71.67	12.00	12.00	0.00	71.67
6175.00	34.80	269.42	6157.50	-0.86	-85.39	12.00	12.00	0.00	85.39
6200.00	37.80	269.42	6177.64	-1.01	-100.19	12.00	12.00	0.00	100.19
6225.00	40.80	269.42	6196.99	-1.17	-116.02	12.00	12.00	0.00	116.03
6250.00	43.80	269.42	6215.47	-1.34	-132.84	12.00	12.00	0.00	132.85
6275.00	46.80	269.42	6233.06	-1.52	-150.61	12.00	12.00	0.00	150.62
6300.00	49.80	269.42	6249.69	-1.71	-169.27	12.00	12.00	0.00	169.28
6325.00	52.80	269.42	6265.32	-1.91	-188.78	12.00	12.00	0.00	188.79
6350.00	55.80	269.42	6279.90	-2.11	-209.08	12.00	12.00	0.00	209.09
6375.00	58.80	269.42	6293.41	-2.33	-230.11	12.00	12.00	0.00	230.13
6400.00	61.80	269.42	6305.79	-2.55	-251.83	12.00	12.00	0.00	251.84
6425.00	64.80	269.42	6317.02	-2.77	-274.16	12.00	12.00	0.00	274.17
6450.00	67.80	269.42	6327.07	-3.00	-297.04	12.00	12.00	0.00	297.06
6475.00	70.80	269.42	6335.91	-3.24	-320.43	12.00	12.00	0.00	320.44
6500.00	73.80	269.42	6343.51	-3.48	-344.24	12.00	12.00	0.00	344.26
6525.00	76.80	269.42	6349.85	-3.73	-368.42	12.00	12.00	0.00	368.44
6550.00	79.80	269.42	6354.92	-3.97	-392.89	12.00	12.00	0.00	392.91
6575.00	82.80	269.42	6358.70	-4.22	-417.60	12.00	12.00	0.00	417.62
6600.00	85.80	269.42	6361.18	-4.47	-442.47	12.00	12.00	0.00	442.50
6625.00	88.80	269.42	6362.36	-4.73	-467.44	12.00	12.00	0.00	467.47
6648.92	91.67	269.42	6362.26	-4.97	-491.36	12.00	12.00	0.00	491.39
6700.00	91.67	269.42	6360.77	-5.49	-542.41	0.00	0.00	0.00	542.44
6800.00	91.67	269.42	6357.86	-6.50	-642.37	0.00	0.00	0.00	642.40

6900.00	91.67	269.42	6354.94	-7.51	-742.32	0.00	0.00	0.00	742.36
7000.00	91.67	269.42	6352.03	-8.52	-842.27	0.00	0.00	0.00	842.31
7100.00	91.67	269.42	6349.11	-9.53	-942.22	0.00	0.00	0.00	942.27
7200.00	91.67	269.42	6346.19	-10.54	-1042.18	0.00	0.00	0.00	1042.23
7300.00	91.67	269.42	6343.28	-11.55	-1142.13	0.00	0.00	0.00	1142.19
7400.00	91.67	269.42	6340.36	-12.56	-1242.08	0.00	0.00	0.00	1242.14
7500.00	91.67	269.42	6337.45	-13.57	-1342.03	0.00	0.00	0.00	1342.10
7600.00	91.67	269.42	6334.53	-14.58	-1441.98	0.00	0.00	0.00	1442.06
7700.00	91.67	269.42	6331.62	-15.59	-1541.94	0.00	0.00	0.00	1542.02
7800.00	91.67	269.42	6328.70	-16.60	-1641.89	0.00	0.00	0.00	1641.97
7900.00	91.67	269.42	6325.78	-17.61	-1741.84	0.00	0.00	0.00	1741.93
8000.00	91.67	269.42	6322.87	-18.63	-1841.79	0.00	0.00	0.00	1841.89
8100.00	91.67	269.42	6319.95	-19.64	-1941.75	0.00	0.00	0.00	1941.85
8200.00	91.67	269.42	6317.04	-20.65	-2041.70	0.00	0.00	0.00	2041.80
8300.00	91.67	269.42	6314.12	-21.66	-2141.65	0.00	0.00	0.00	2141.76
8400.00	91.67	269.42	6311.21	-22.67	-2241.60	0.00	0.00	0.00	2241.72
8500.00	91.67	269.42	6308.29	-23.68	-2341.56	0.00	0.00	0.00	2341.68
8600.00	91.67	269.42	6305.37	-24.69	-2441.51	0.00	0.00	0.00	2441.63
8700.00	91.67	269.42	6302.46	-25.70	-2541.46	0.00	0.00	0.00	2541.59
8800.00	91.67	269.42	6299.54	-26.71	-2641.41	0.00	0.00	0.00	2641.55
8900.00	91.67	269.42	6296.63	-27.72	-2741.37	0.00	0.00	0.00	2741.51
9000.00	91.67	269.42	6293.71	-28.73	-2841.32	0.00	0.00	0.00	2841.46
9100.00	91.67	269.42	6290.80	-29.74	-2941.27	0.00	0.00	0.00	2941.42
9200.00	91.67	269.42	6287.88	-30.75	-3041.22	0.00	0.00	0.00	3041.38
9300.00	91.67	269.42	6284.96	-31.77	-3141.18	0.00	0.00	0.00	3141.34
9400.00	91.67	269.42	6282.05	-32.78	-3241.13	0.00	0.00	0.00	3241.29
9500.00	91.67	269.42	6279.13	-33.79	-3341.08	0.00	0.00	0.00	3341.25
9600.00	91.67	269.42	6276.22	-34.80	-3441.03	0.00	0.00	0.00	3441.21
9700.00	91.67	269.42	6273.30	-35.81	-3540.98	0.00	0.00	0.00	3541.17
9800.00	91.67	269.42	6270.39	-36.82	-3640.94	0.00	0.00	0.00	3641.12
9900.00	91.67	269.42	6267.47	-37.83	-3740.89	0.00	0.00	0.00	3741.08
10000.00	91.67	269.42	6264.55	-38.84	-3840.84	0.00	0.00	0.00	3841.04
10100.00	91.67	269.42	6261.64	-39.85	-3940.79	0.00	0.00	0.00	3941.00
10200.00	91.67	269.42	6258.72	-40.86	-4040.75	0.00	0.00	0.00	4040.95
10300.00	91.67	269.42	6255.81	-41.87	-4140.70	0.00	0.00	0.00	4140.91
10400.00	91.67	269.42	6252.89	-42.88	-4240.65	0.00	0.00	0.00	4240.87
10500.00	91.67	269.42	6249.98	-43.89	-4340.60	0.00	0.00	0.00	4340.83
10600.00	91.67	269.42	6247.06	-44.90	-4440.56	0.00	0.00	0.00	4440.78
10700.00	91.67	269.42	6244.14	-45.92	-4540.51	0.00	0.00	0.00	4540.74
10800.00	91.67	269.42	6241.23	-46.93	-4640.46	0.00	0.00	0.00	4640.70
10842.15	91.67	269.42	6240.00	-47.35	-4682.59	0.00	0.00	0.00	4682.83