

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
311 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

NM OIL CONSERVATION
ARTESIA DISTRICT
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

SEP 18 2014

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42657	² Pool Code 98056	³ Pool Name WC-015 G-04 S232628; Bone Spring
⁴ Property Code 40471	⁵ Property Name DAISY DUKE 31 STATE COM	
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁶ Well Number 2H
		⁹ Elevation 3367.5

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
H	31	22 S	26 E		2275	NORTH	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
2	31	22 S	26 E		1980	NORTH	330	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
158.69			

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.

Project Area
Lease Line
Completion Interval

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.

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.

Linda Good 9/19/2014
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.

MARCH 28, 2014
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

Certificate Number **PLS 12797**
SURVEY NO. 2725

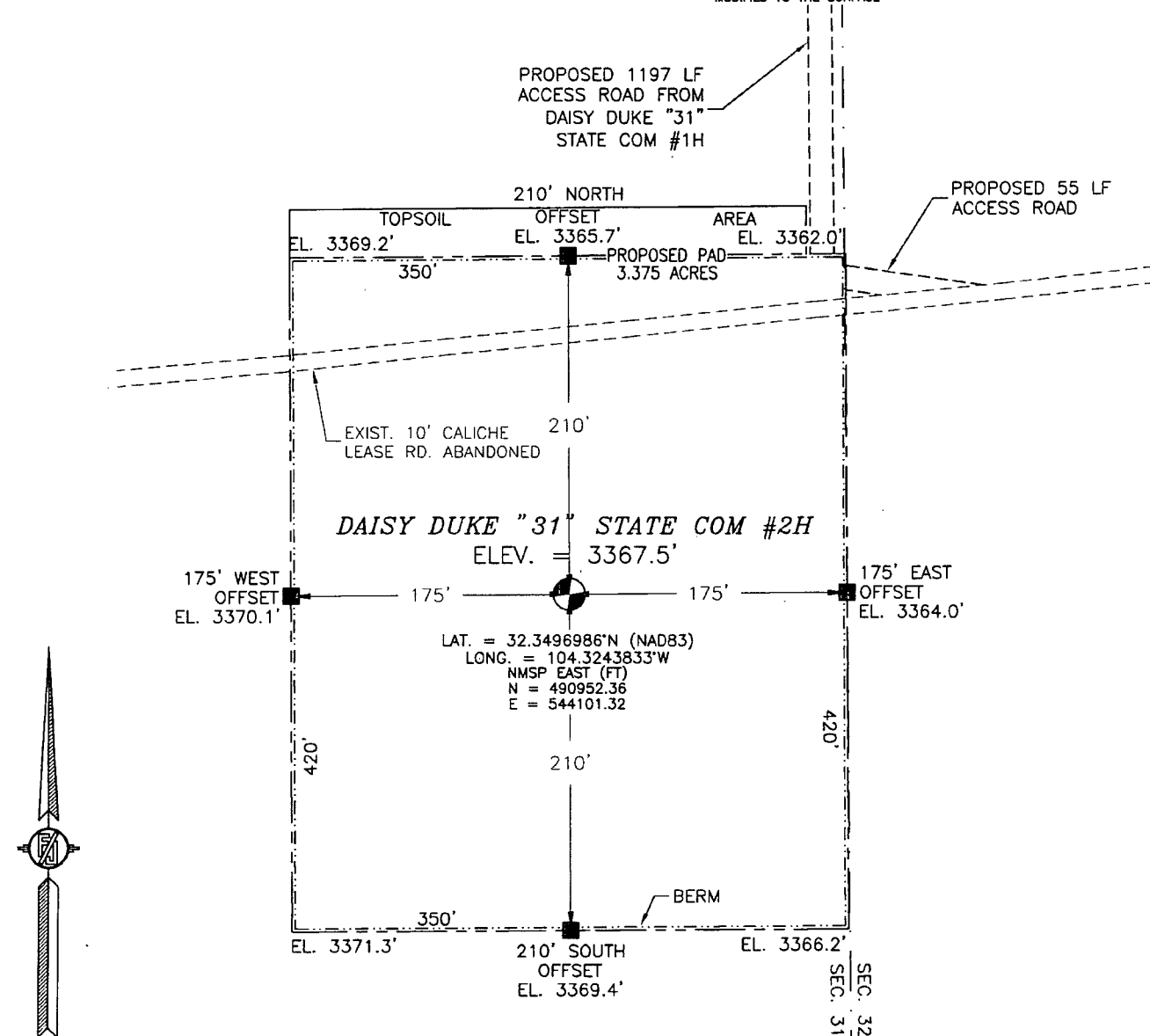
PLS 12797

PLS 12797

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



0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STANDPIPE ROAD AND CR 672 (HIDALGO ROAD) GO SOUTHWEST ON CR 672 TO A CALICHE LEASE ROAD ON RIGHT, GO NORTHWEST ON CALICHE LEASE ROAD 0.4 MILES TO AN EXISTING ROAD ON WEST SIDE OF EXISTING PAD. GO NORTH ON EXISTING ROAD PAST LARGE ARROYO 0.56 MILES, THIS ROAD IS ABANDONED AND HAS PILES OF DIRT BLOCKING ACCESS ROAD, TURNS LEFT JUST PAST FENCE LINE GO 0.28 MILES ALONG ABANDONED CALICHE LEASE ROAD TO NORTHEAST CORNER OF PROPOSED PAD.

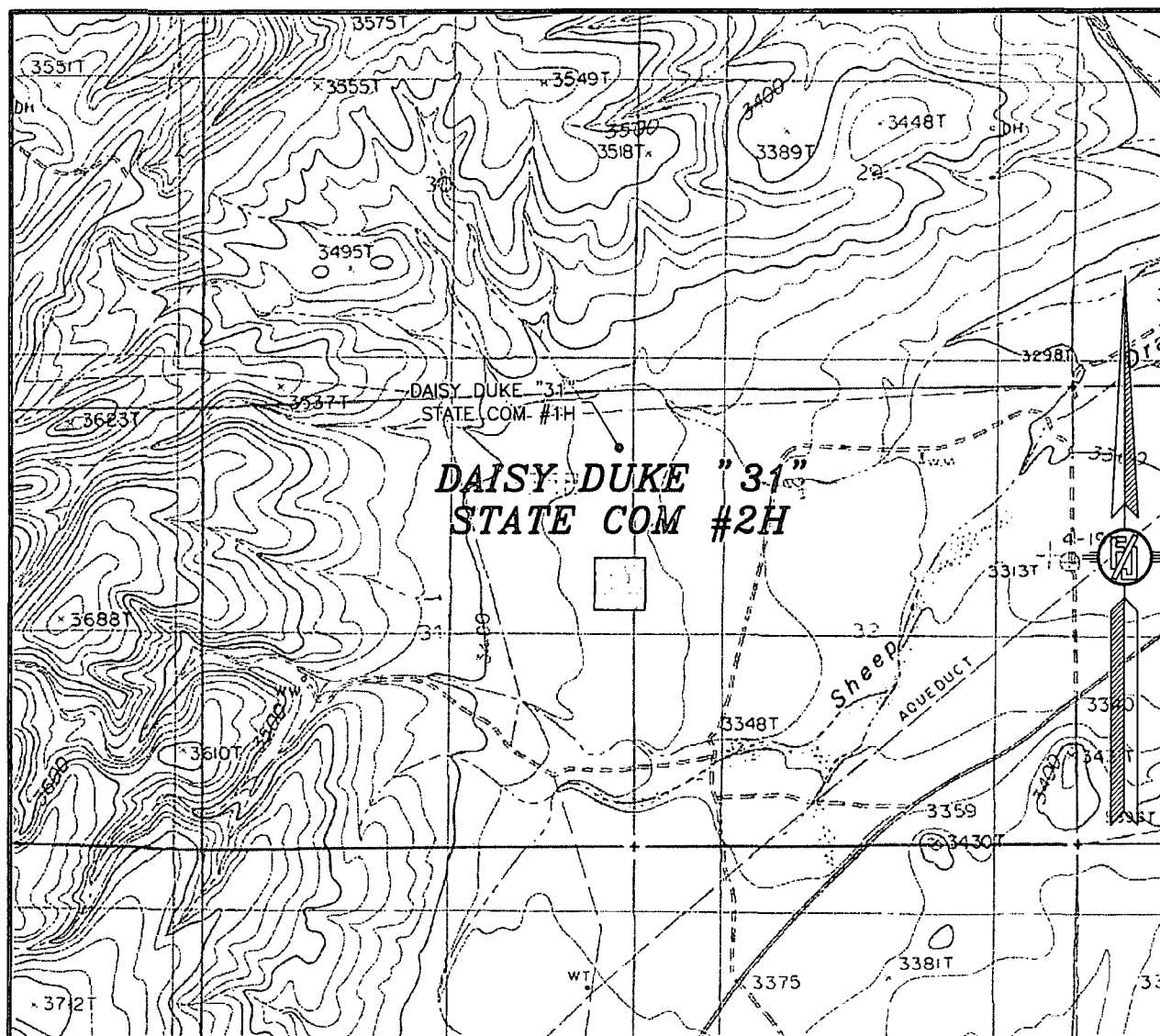
DEVON ENERGY PRODUCTION COMPANY, L.P.
DAISY DUKE "31" STATE COM #2H
LOCATED 2275 FT. FROM THE NORTH LINE
AND 175 FT. FROM THE EAST LINE OF
SECTION 31, TOWNSHIP 22 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 28, 2014

SURVEY NO. 2725

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
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 KITCHEN COVE

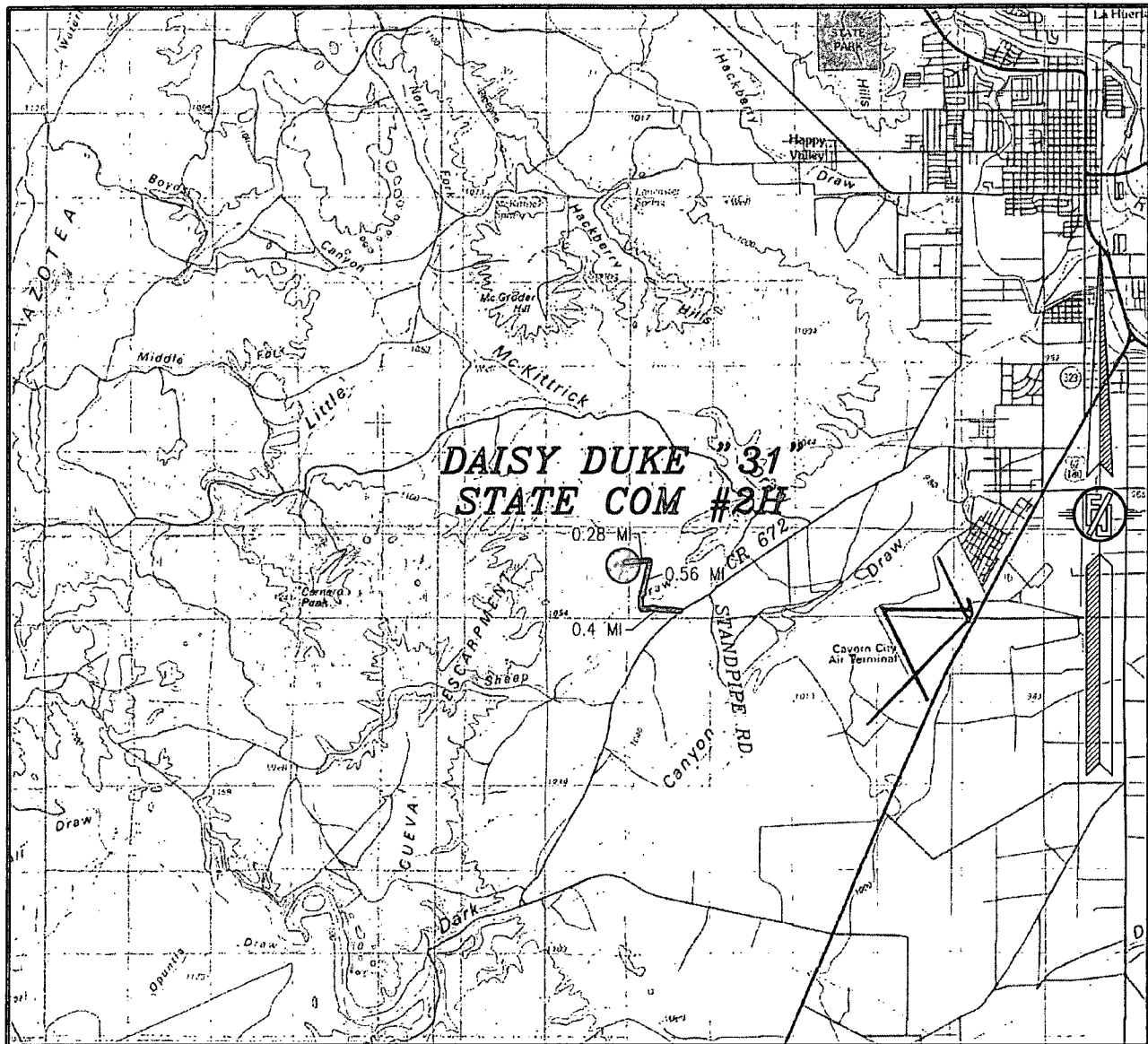
NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
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 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 28, 2014

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 2725

SECTION 31, TOWNSHIP 22 SOUTH, RANGE 26 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.

DAISY DUKE "31" STATE COM #2H

LOCATED 2275 FT. FROM THE NORTH 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

DIRECTIONS TO LOCATION

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MARCH 28, 2014

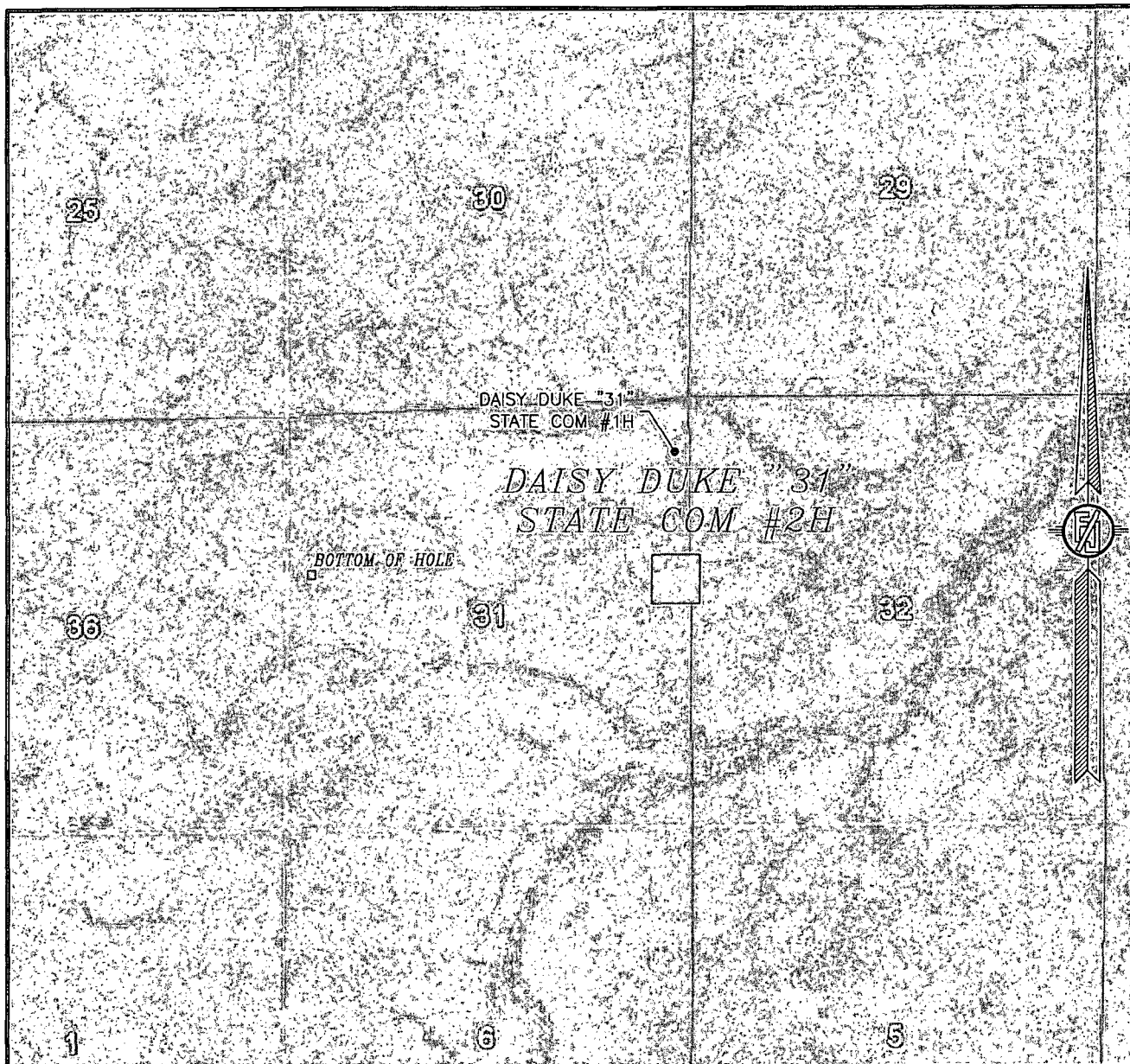
SURVEY NO. 2725

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
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

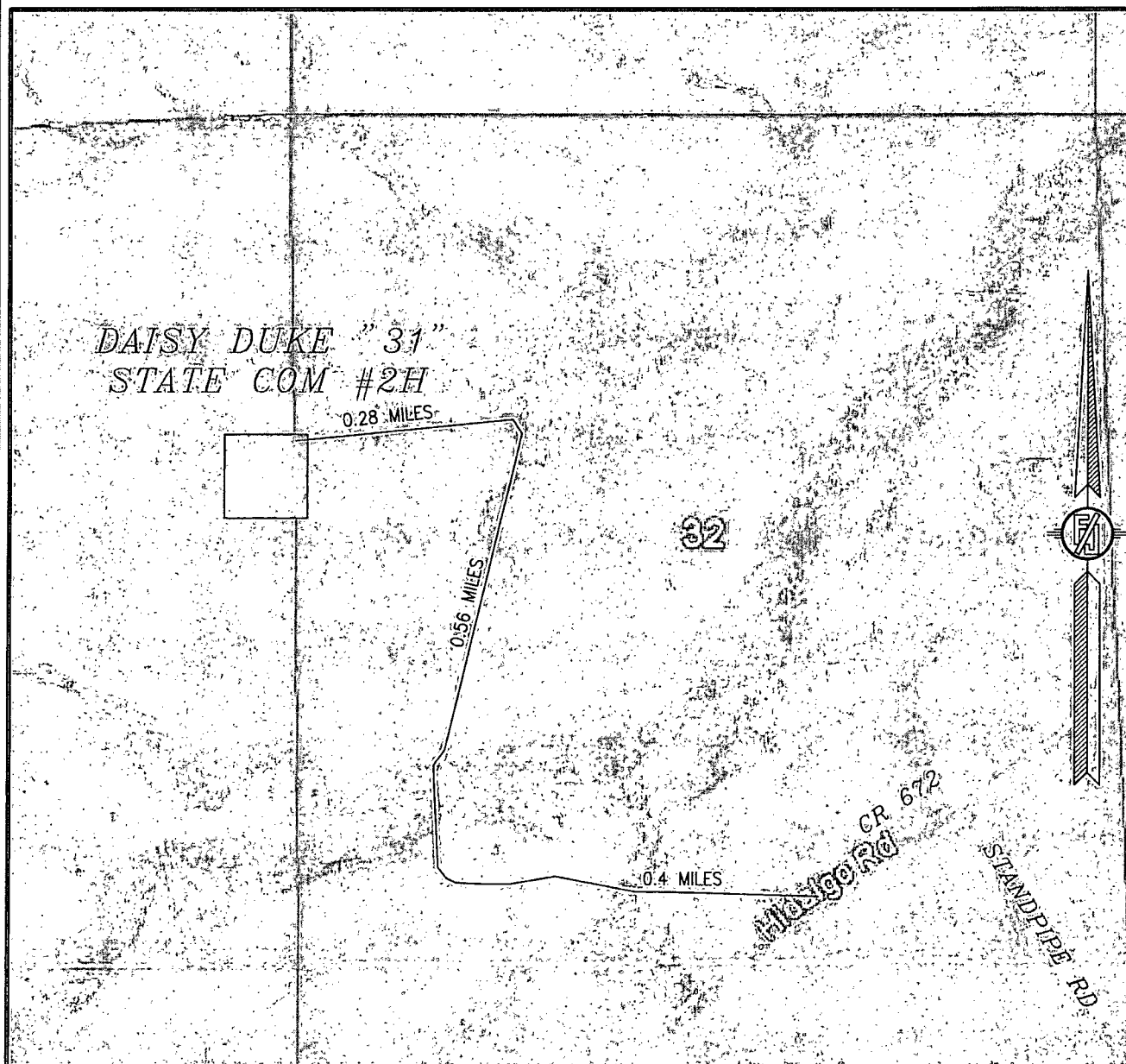
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EDDY COUNTY, STATE OF NEW MEXICO

MARCH 28, 2014

SURVEY NO. 2725

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
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

DAISY DUKE "31" STATE COM #2H
LOCATED 2275 FT. FROM THE NORTH 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

MARCH 28, 2014

SURVEY NO. 2725

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

DRILLING PROGRAM

Devon Energy Production Company, L.P.
Daisy Duke 31 State Com 2H

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

a. Quaternary	0	Barren
b. Rustler	105	Barren
c. Capitan	688	Barren
d. Capitan Base	1237	Barren
e. Lamar	1241	Oil/Gas
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

Total Depths	6240	TVD	10836	MD
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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 and intermediate shoes. The BOP system used to drill the intermediate 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 5,000 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	STC	H-40	4.11	9.24	16.77
12-1/4"	400-1590'	9-5/8"	0-1590'	36	LTC	J-55	2.44	4.26	7.91
8-3/4"	1590-10836'	5-1/2"	0-10836'	17	BTC	P-110	2.88	3.57	4.53

Casing Notes:

- All casing is new and API approved
- The casing will never be completely evacuated of fluid

Maximum TVD: 6363'

5. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0 - 400'	8.4-9.0	30-34	N/C	FW
400-1590'	10.0-10.1	28-32	N/C	Brine
1590-10836'	8.6-9.0	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	450	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate Single Stage	290	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 + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
5-1/2" Production Casing Single Stage	580	11.0	14.81	2.55	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 77.6% Fresh Water
	1320	14.5	5.38	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
5-1/2" Production Casing 2-Stage Option	220	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
	1320	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 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
	DV Tool @ 4500ft					
	400	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 I @ 0'
 Production @ 1090'

Notes:

- Cement volumes Surface 100%, Intermediate 75% and Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and/or 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

Daisy Duke 31 State Com 2H
Eddy Co, NM



Plan Data for Daisy Duke 31 State Com 2H

Plan Point Information:											
Dogleg	Severity	Unit:	Position offsets from Slot centre								
MO	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS		
(USft)	(")	(")	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
0.00	0.00	0.00	0.00	0.00	0.00	490952.36	544101.32	0.00	0.00		
5844.00	0.00	0.00	5844.00	0.00	0.00	490952.36	544101.32	0.00	0.00		
5995.58	18.19	320.00	5993.05	18.28	-15.34	490970.64	544085.98	15.10	12.00		
6664.34	91.70	269.25	6363.46	109.28	-498.30	491061.64	543603.02	496.83	12.00		
10836.35	91.70	269.25	6240.00	55.00	-4668.13	491007.36	539433.19	4667.01	0.00		

Plan Data for Daisy Duke 31 State Com 2H

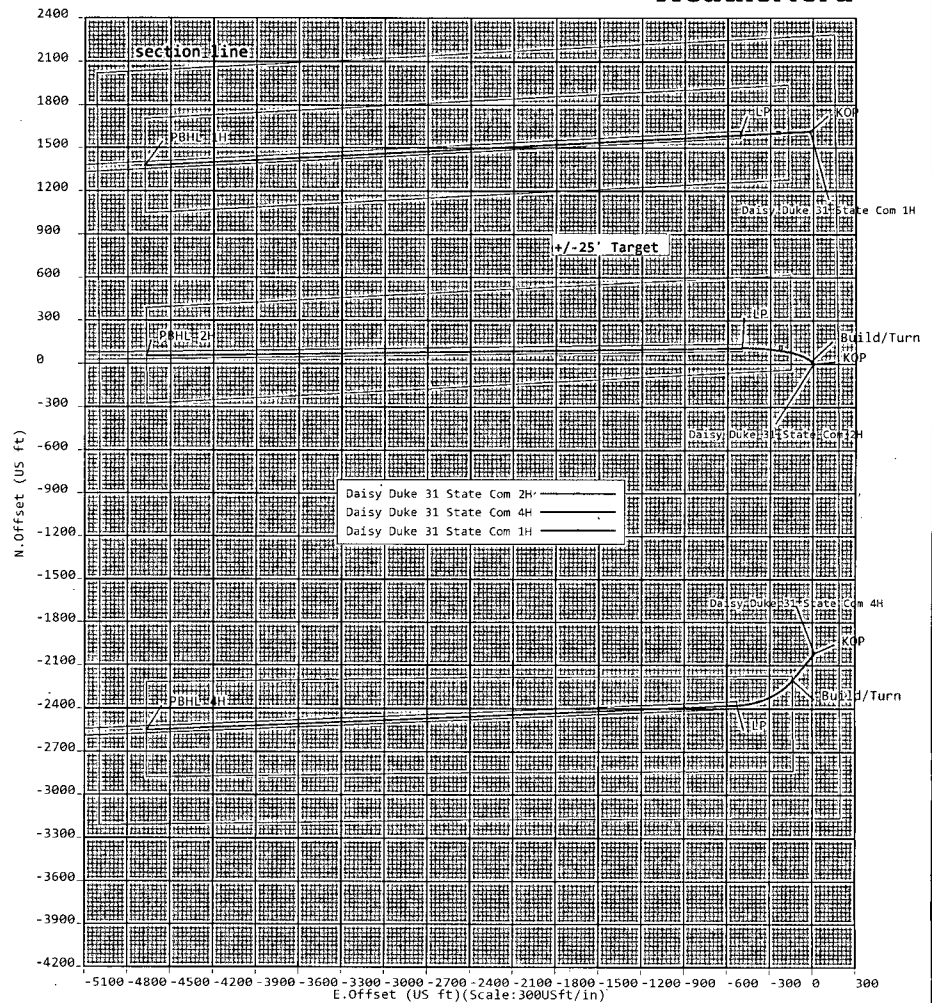
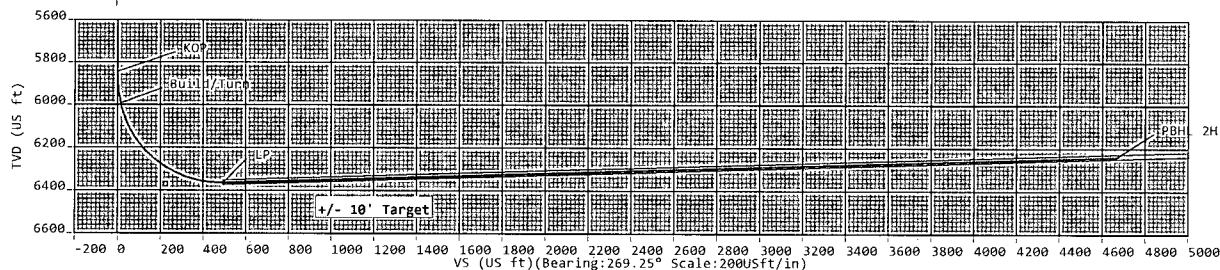
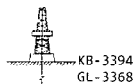
Slot: Daisy Duke 31 State Com 2H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 490952.36USft Latitude: 32°20'58.9"
+E/-W: 0.00USft Easting: 544101.32USft Longitude: -104°19'27.8"
Elevation Above VRD: 3368.00USft

Plan Data for Daisy Duke 31 State Com 2H

Target Set Information:											
Name: Daisy Duke 31 State Com 2H											
Position offsets from Slot centre											
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment				
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)						
LP	6372.00	113.04	-226.36	491065.40	543874.96	Cuboid					
PBHL	6240.00	55.00	-4668.13	491007.36	539433.19	Cuboid					

Plan Data for Daisy Duke 31 State Com 2H

Well: Daisy Duke 31 State Com 2H
Type: Main-Well
File Number:
Plan Folder: P1
Plan: P1.V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 269.25°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGM 48245(NT) 7.70° 60.08° 2014-10-30



Sign Off: Russell Joyner

SEP 18 2014

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5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Daisy Duke 31 State Com 2H*
Well Name: *Daisy Duke 31 State Com 2H*
Plan: *P1:V1*

25 August 2014



Daisy Duke 31 State Com 2H

Field Name Eddy Co, NM (Nad 83 NME)	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)			
	Comment :			
Site Name Daisy Duke 31 State Com 2H	Units : US ft	North Reference : Grid	Convergence Angle : 0.00	
	Position	Northing : 490952.36 US ft	Latitude : 32° 20' 58.92"	
		Easting : 544101.32 US ft	Longitude : -104° 19' 27.78"	
	Elevation above Mean Sea Level: 3368.00 US ft			
Comment :				
Slot Name Daisy Duke 31 State Com 2H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft		Northing : 490952.36 US ft	Latitude : 32° 20' 58.92"
	+E / -W : 0.00 US ft		Easting : 544101.32 US ft	Longitude : -104° 19' 27.78"
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3368.00 US ft				
Comment :				
Well Name Daisy Duke 31 State Com 2H	Type : Main well		UWI :	Plan : P1:V1
	Rig Height <i>Kelly Bushing</i> : 26.00 US ft		Comment :	
	Relative to Mean Sea Level: 3394.00 US ft			
	Closure Distance : 4668.45 US ft		Closure Azimuth : 270.675°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 269.25°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48245.2nT	Dec : 7.70°	Dip : 60.08° Date : 30/Oct/2014

Target Set

Name : Daisy Duke 31 State **Number of Targets :** 2
 Com 2H

Comment :

Target Name: LP Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 113.04 US ft		Northing : 491065.40 US ft	Latitude : 32° 21' 0.03"
	+E / -W : -226.36 US ft		Easting : 543874.96 US ft	Longitude : -104° 19' 30.42"
	TVD (Kelly Bushing) : 6372.00 US ft			
Orientation Azimuth : 0.00°		Inclination : 0.00°		
Dimensions Length : 20.00 US ft		Breadth : 20.00 US ft		Height : 20.00 US ft

5D Plan Report

Target Name:	Position (Relative to Slot centre)		
PBHL	+N / -S : 55.00 US ft	Northing : 491007.36 US ft	Latitude : 32°20'59.46"
Shape:	+E / -W : -4668.13 US ft	Easting : 539433.19 US ft	Longitude : -104°20'22.20"
Cuboid	TVD (Kelly Bushing) : 6240.00 US ft		
	Orientation Azimuth : 269.25°	Inclination : 1.70°	
	Dimensions Length : 8344.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B. Rate (°/100 US ft)	T. Rate (°/100 US ft)	T. Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	
5844.00	0.00	0.00	5844.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	KOP
5995.58	18.19	320.00	5993.05	18.28	-15.34	15.10	12.00	12.00	0.00	320.00	Build/Turn
6664.34	91.70	269.25	6363.46	109.28	-498.30	496.83	12.00	10.99	-7.59	308.25	LP
10836.35	91.70	269.25	6240.00	55.00	-4668.13	4667.01	0.00	0.00	0.00	0.00	PBHL 2H

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)		Comment
5800.00	0.00	0.00	5800.00	0.00	0.00	-0.00	0.00	490952.36	544101.32		
5844.00	0.00	0.00	5844.00	0.00	0.00	-0.00	0.00	490952.36	544101.32		KOP
5900.00	6.72	320.00	5899.87	2.51	-2.11	2.08	12.00	490954.87	544099.21		
5995.58	18.19	320.00	5993.05	18.28	-15.34	15.10	12.00	490970.64	544085.98		Build/Turn
6000.00	18.52	318.69	5997.24	19.33	-16.24	15.99	12.00	490971.69	544085.08		
6100.00	27.69	298.49	6089.26	42.43	-47.26	46.70	12.00	490994.79	544054.06		
6200.00	38.37	288.31	6173.04	63.34	-97.33	96.49	12.00	491015.70	544003.99		
6300.00	49.58	282.12	6244.93	81.15	-164.26	163.18	12.00	491033.51	543937.06		
6400.00	61.03	277.73	6301.77	95.08	-245.12	243.85	12.00	491047.44	543856.20		
6500.00	72.59	274.23	6341.09	104.52	-336.38	334.98	12.00	491056.88	543764.94		
6600.00	84.21	271.15	6361.16	109.05	-434.05	432.59	12.00	491061.41	543667.27		
6664.34	91.70	269.25	6363.46	109.28	-498.30	496.83	12.00	491061.64	543603.02		LP
6700.00	91.70	269.25	6362.40	108.81	-533.94	532.47	0.00	491061.17	543567.38		
6800.00	91.70	269.25	6359.44	107.51	-633.89	632.43	0.00	491059.87	543467.43		
6900.00	91.70	269.25	6356.48	106.21	-733.84	732.39	0.00	491058.57	543367.48		
7000.00	91.70	269.25	6353.53	104.91	-833.79	832.34	0.00	491057.27	543267.53		
7100.00	91.70	269.25	6350.57	103.61	-933.73	932.30	0.00	491055.97	543167.59		
7200.00	91.70	269.25	6347.61	102.31	-1033.68	1032.25	0.00	491054.67	543067.64		
7300.00	91.70	269.25	6344.65	101.01	-1133.63	1132.21	0.00	491053.37	542967.69		
7400.00	91.70	269.25	6341.69	99.71	-1233.58	1232.17	0.00	491052.07	542867.74		
7500.00	91.70	269.25	6338.73	98.41	-1333.52	1332.12	0.00	491050.77	542767.80		
7600.00	91.70	269.25	6335.77	97.10	-1433.47	1432.08	0.00	491049.46	542667.85		
7700.00	91.70	269.25	6332.81	95.80	-1533.42	1532.03	0.00	491048.16	542567.90		
7800.00	91.70	269.25	6329.85	94.50	-1633.37	1631.99	0.00	491046.86	542467.95		
7900.00	91.70	269.25	6326.89	93.20	-1733.32	1731.95	0.00	491045.56	542368.00		
8000.00	91.70	269.25	6323.93	91.90	-1833.26	1831.90	0.00	491044.26	542268.06		
8100.00	91.70	269.25	6320.97	90.60	-1933.21	1931.86	0.00	491042.96	542168.11		
8200.00	91.70	269.25	6318.01	89.30	-2033.16	2031.82	0.00	491041.66	542068.16		
8300.00	91.70	269.25	6315.06	88.00	-2133.11	2131.77	0.00	491040.36	541968.21		
8400.00	91.70	269.25	6312.10	86.70	-2233.05	2231.73	0.00	491039.06	541868.27		
8500.00	91.70	269.25	6309.14	85.40	-2333.00	2331.68	0.00	491037.76	541768.32		
8600.00	91.70	269.25	6306.18	84.09	-2432.95	2431.64	0.00	491036.45	541668.37		
8700.00	91.70	269.25	6303.22	82.79	-2532.90	2531.60	0.00	491035.15	541568.42		
8800.00	91.70	269.25	6300.26	81.49	-2632.85	2631.55	0.00	491033.85	541468.47		
8900.00	91.70	269.25	6297.30	80.19	-2732.79	2731.51	0.00	491032.55	541368.53		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
9000.00	91.70	269.25	6294.34	78.89	-2832.74	2831.47	0.00	491031.25	541268.58	
9100.00	91.70	269.25	6291.38	77.59	-2932.69	2931.42	0.00	491029.95	541168.63	
9200.00	91.70	269.25	6288.42	76.29	-3032.64	3031.38	0.00	491028.65	541068.68	
9300.00	91.70	269.25	6285.46	74.99	-3132.58	3131.33	0.00	491027.35	540968.74	
9400.00	91.70	269.25	6282.50	73.69	-3232.53	3231.29	0.00	491026.05	540868.79	
9500.00	91.70	269.25	6279.55	72.39	-3332.48	3331.25	0.00	491024.75	540768.84	
9600.00	91.70	269.25	6276.59	71.08	-3432.43	3431.20	0.00	491023.44	540668.89	
9700.00	91.70	269.25	6273.63	69.78	-3532.38	3531.16	0.00	491022.14	540568.94	
9800.00	91.70	269.25	6270.67	68.48	-3632.32	3631.12	0.00	491020.84	540469.00	
9900.00	91.70	269.25	6267.71	67.18	-3732.27	3731.07	0.00	491019.54	540369.05	
10000.00	91.70	269.25	6264.75	65.88	-3832.22	3831.03	0.00	491018.24	540269.10	
10100.00	91.70	269.25	6261.79	64.58	-3932.17	3930.98	0.00	491016.94	540169.15	
10200.00	91.70	269.25	6258.83	63.28	-4032.11	4030.94	0.00	491015.64	540069.21	
10300.00	91.70	269.25	6255.87	61.98	-4132.06	4130.90	0.00	491014.34	539969.26	
10400.00	91.70	269.25	6252.91	60.68	-4232.01	4230.85	0.00	491013.04	539869.31	
10500.00	91.70	269.25	6249.95	59.38	-4331.96	4330.81	0.00	491011.74	539769.36	
10600.00	91.70	269.25	6246.99	58.07	-4431.90	4430.76	0.00	491010.43	539669.42	
10700.00	91.70	269.25	6244.03	56.77	-4531.85	4530.72	0.00	491009.13	539569.47	
10800.00	91.70	269.25	6241.08	55.47	-4631.80	4630.68	0.00	491007.83	539469.52	
10836.35	91.70	269.25	6240.00	55.00	-4668.13	4667.01	0.00	491007.36	539433.19	PBHL 2H

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.0.0.3

Report Date: August 25, 2014
Job Number: _____
Customer: Devon Energy
Well Name: Daisy Duke 31 State Com 2H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM Nad83 NME
Block: _____
Engineer: RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 490952.36 US Survey Foot	Latitude: 32.349699 Degree
East: 544101.32 US Survey Foot	Longitude: -104.324383 Degree
Convergence: 0.00°	
Declination: 7.70°	
Total Correction: 7.70°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 20' 58.92" N
Longitude = 104° 19' 27.78" W

Magnetic Declination = 7.70 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6591
Local Field Strength = 48245 nT	Magnetic Vector X = 23848 nT
Magnetic Dip = 60.08 deg	Magnetic Vector Y = 3225 nT
Magnetic Model = bggm2014.dat	Magnetic Vector Z = 41815 nT
Run Date = October 30, 2014	Magnetic Vector H = 24065 nT

Signed: _____ Date: _____