

AUG 10 2012

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Form C-102

Revised August 1, 2011.

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) 748-1225 Fax: (575) 748-0720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3450 Fax: (505) 476-3463State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40719	Pool Code 96193	Pool Name BRINNINSSTOOL DELAWARE
Property Code 30884	Property Name THISTLE UNIT	Well Number 34H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3665'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	33	23 S	33 E		350	SOUTH	2075	WEST	LEA

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
C	33	23 S	33 E		1320	NORTH	1700	WEST	LEA

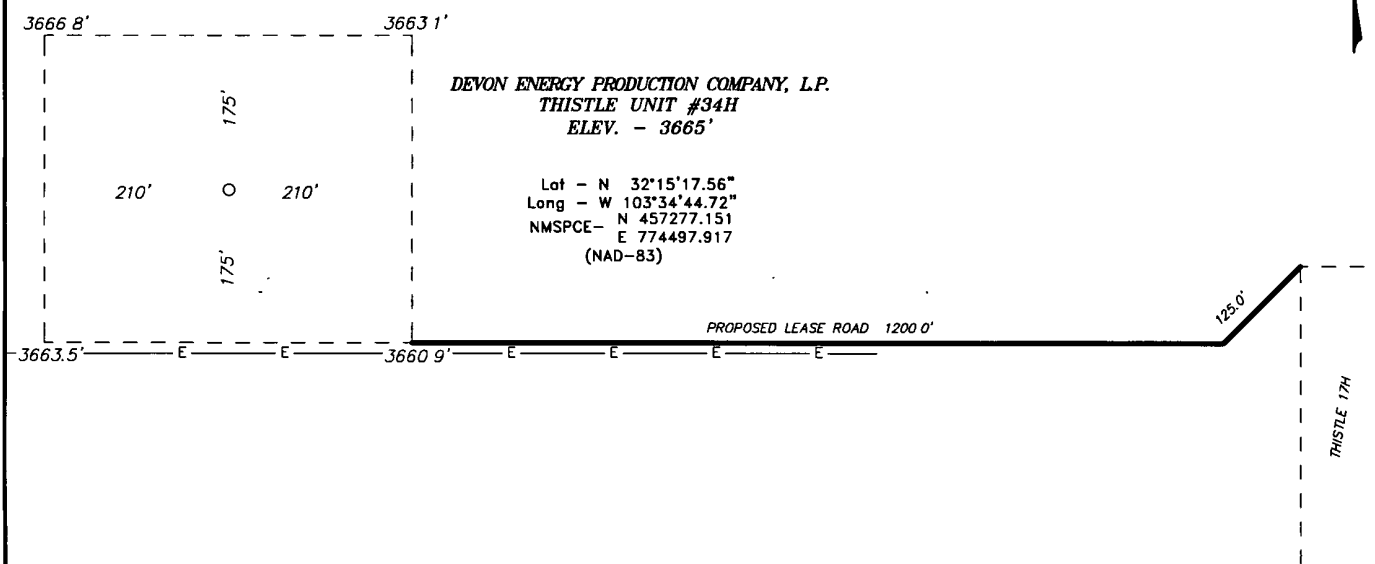
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

	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. Signature: <i>[Signature]</i> Date: 8/9/2012 David H. Cook Regulatory Specialist Printed Name: david.cook@dmn.com Email Address:
	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. Date Surveyed: 8/9/2012 Signature & Seal of Professional Surveyor: <i>[Signature]</i> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26885

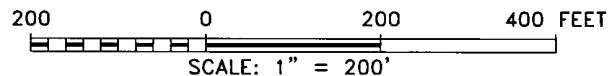
AUG 13 2012

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



Directions to Location:

FROM THE JUNCTION OF HWY 128 AND BRINSTOOL,
GO NORTH 3.0 MILES TO LEASE ROAD, ON LEASE
ROAD GO WEST 0.3 MILES TO PROPOSED LEASE
ROAD.



DEVON ENERGY PRODUCTION COMPANY, L.P.

REF: THISTLE UNIT #34H / WELL PAD TOPO

THE THISTLE UNIT #34H LOCATED 350'

FROM THE SOUTH LINE AND 2075' FROM THE WEST LINE OF
SECTION 33, TOWNSHIP 23 SOUTH, RANGE 33 EAST,

N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 26885

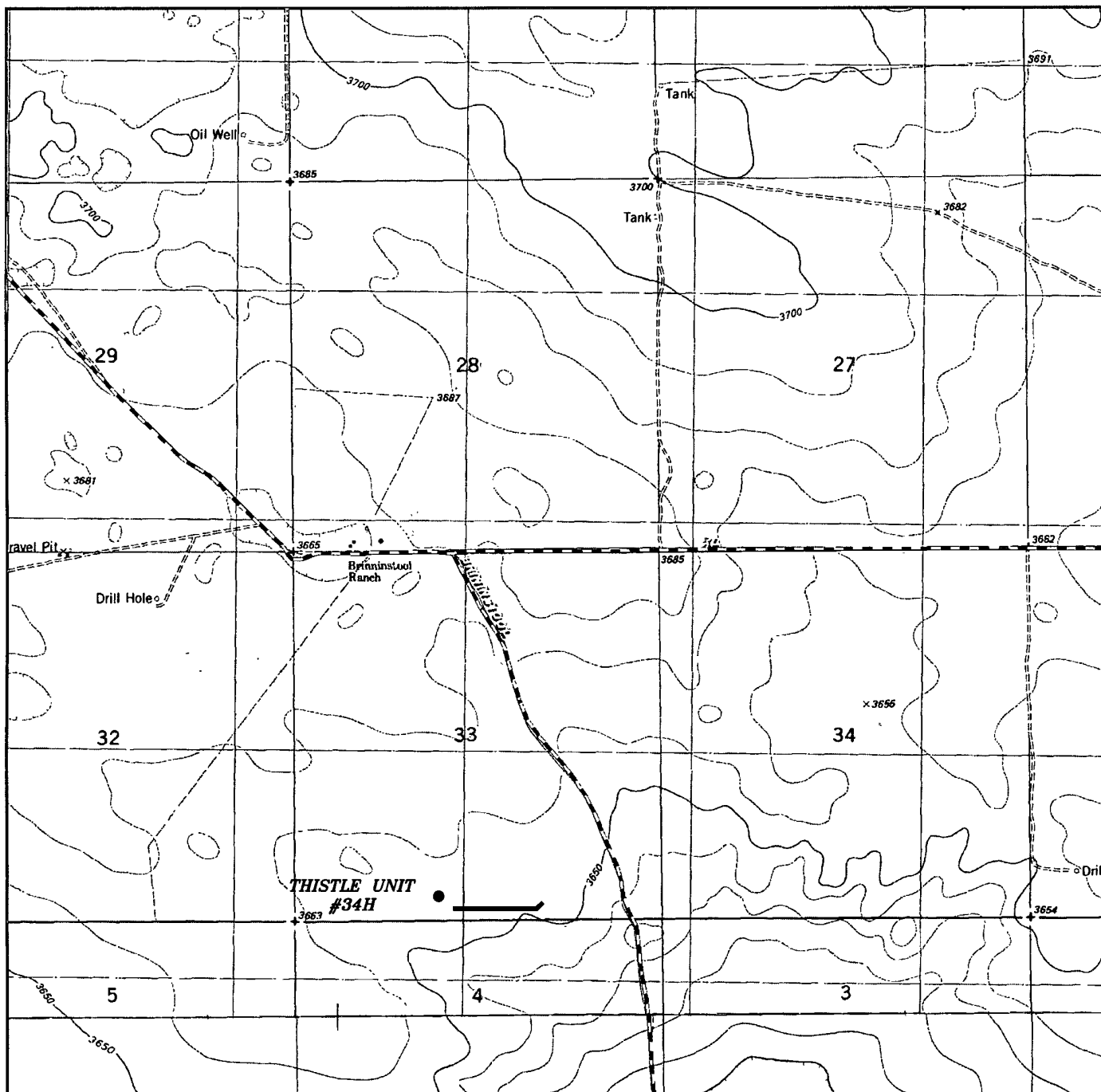
Drawn By: J. SMALL

Date: 06-08-2012

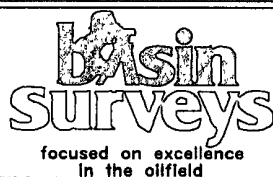
Disk: JMS 26885

Survey Date: 06-07-2012

Sheet 1 of 1 Sheets



THISTLE UNIT #34H
 Located 350' FSL and 2075' FWL
 Section 33, Township 23 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
basinsurveys.com

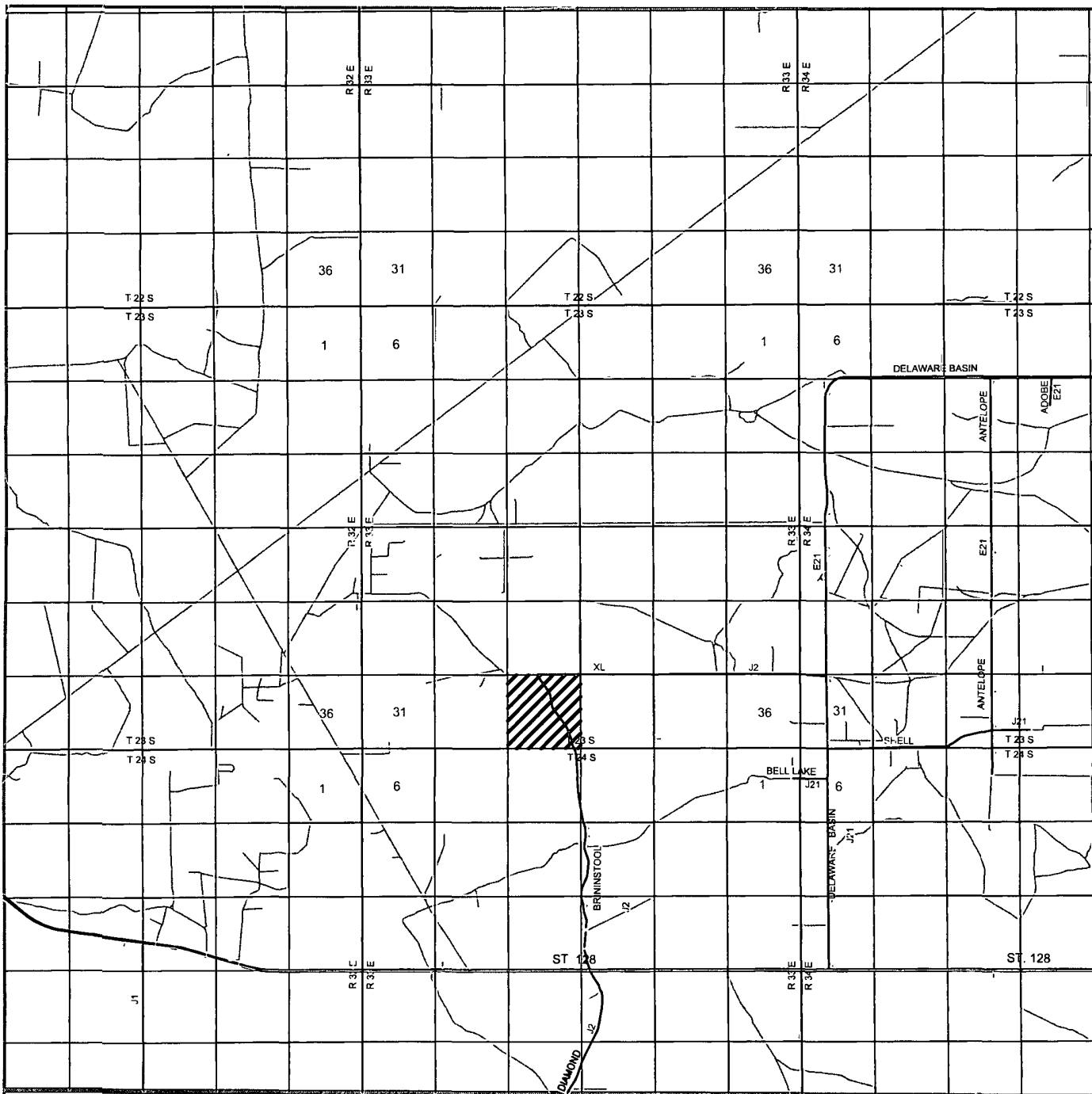
W.O. Number: JMS 26885

Survey Date: 06-07-2012

Scale: 1" = 2000'

Date: 06-08-2012

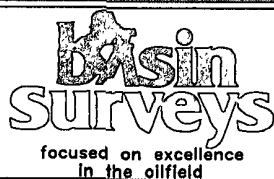
**DEVON ENERGY
 PRODUCTION
 COMPANY, L.P.**



THISTLE UNIT #34H

Located 350' FSL and 2075' FWL

Section 33, Township 23 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.



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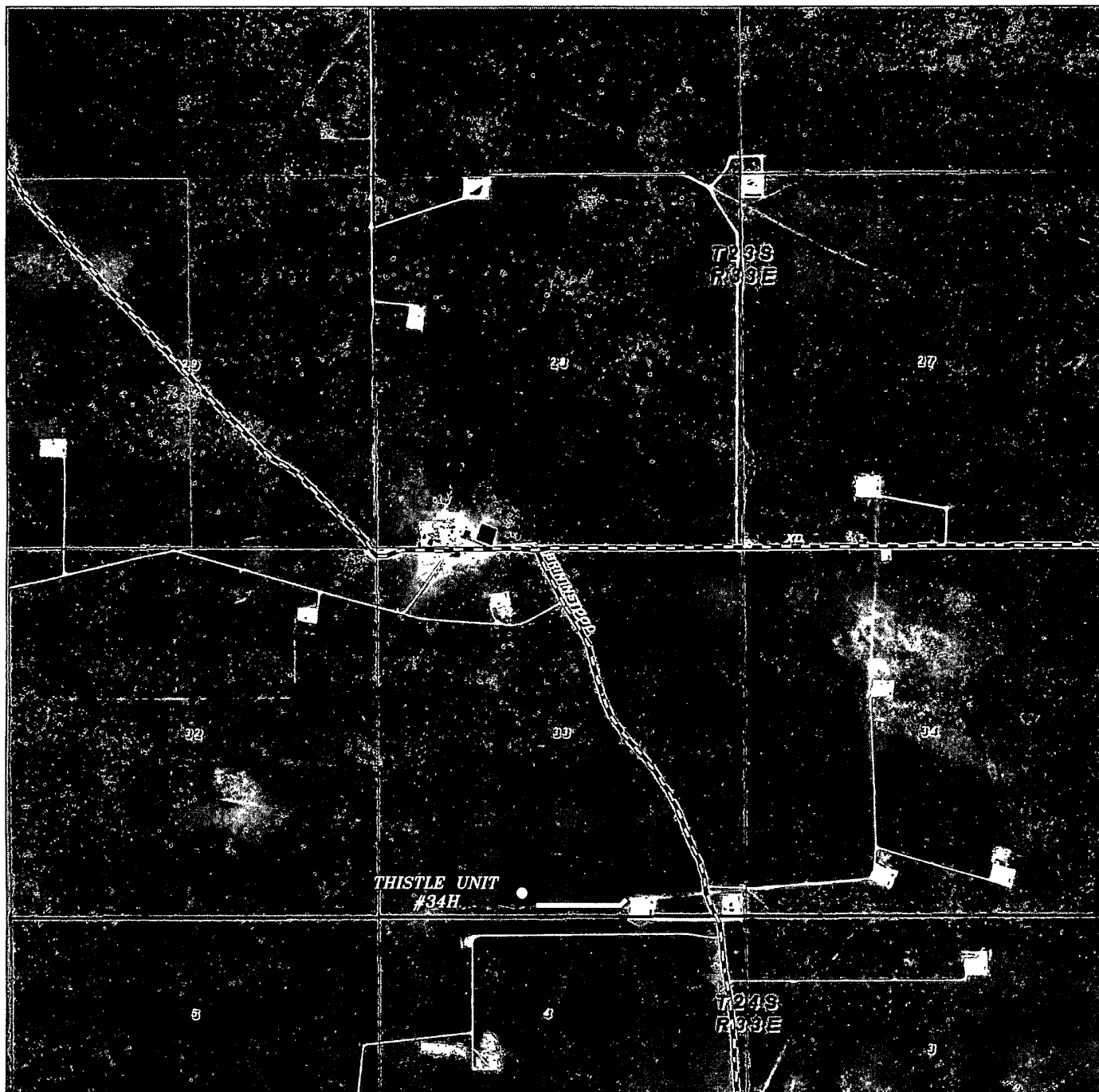
W.O. Number: JMS 26885

Survey Date: 06-07-2012

Scale: 1" = 2 Miles

Date: 06-08-2012

**DEVON ENERGY
PRODUCTION
COMPANY, L.P.**



THISTLE UNIT #34H

Located 350' FSL and 2075' FWL

Section 33, Township 23 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.



focused on excellence
in the oilfield

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Hobbs, New Mexico 88241
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(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: JMS 26885

Scale: 1" = 2000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND

**DEVON ENERGY
PRODUCTION
COMPANY, L.P.**

30 025-40719

HOBBS OCD

AUG 10 2012

RECEIVED



Weatherford®

Drilling Services

Proposal



devon

THISTLE UNIT #34H

LEA COUNTY, NM

WELL FILE: **PLAN 1**

JULY 12, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



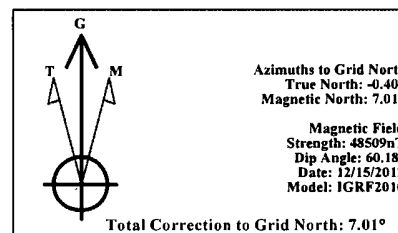
Thistle Unit #34H
Lea County, New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	353.67	0.00	0.00	0.00	0.00	0.00	0.00	
2	8352.09	0.00	353.67	8352.09	0.00	0.00	0.00	0.00	0.00	
3	9259.59	90.75	353.67	8925.00	576.91	-64.04	10.00	353.67	580.46	
4	12316.31	90.75	353.67	8885.00	3614.71	-401.28	0.00	0.00	3636.92	PBHL

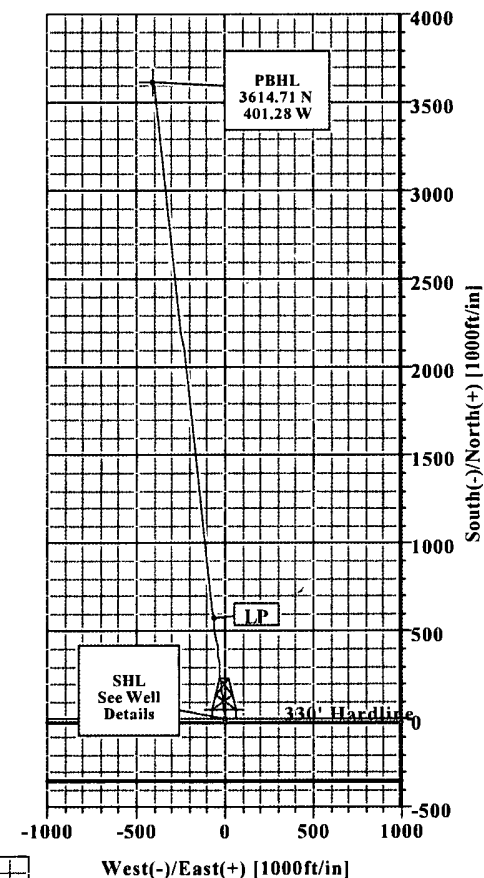
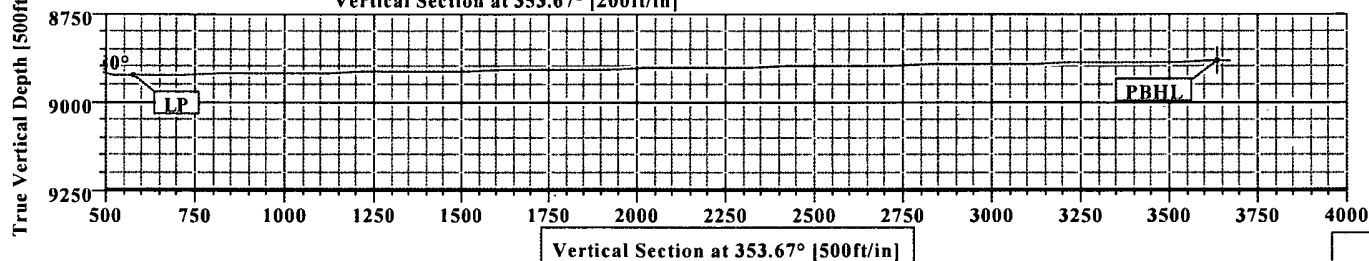
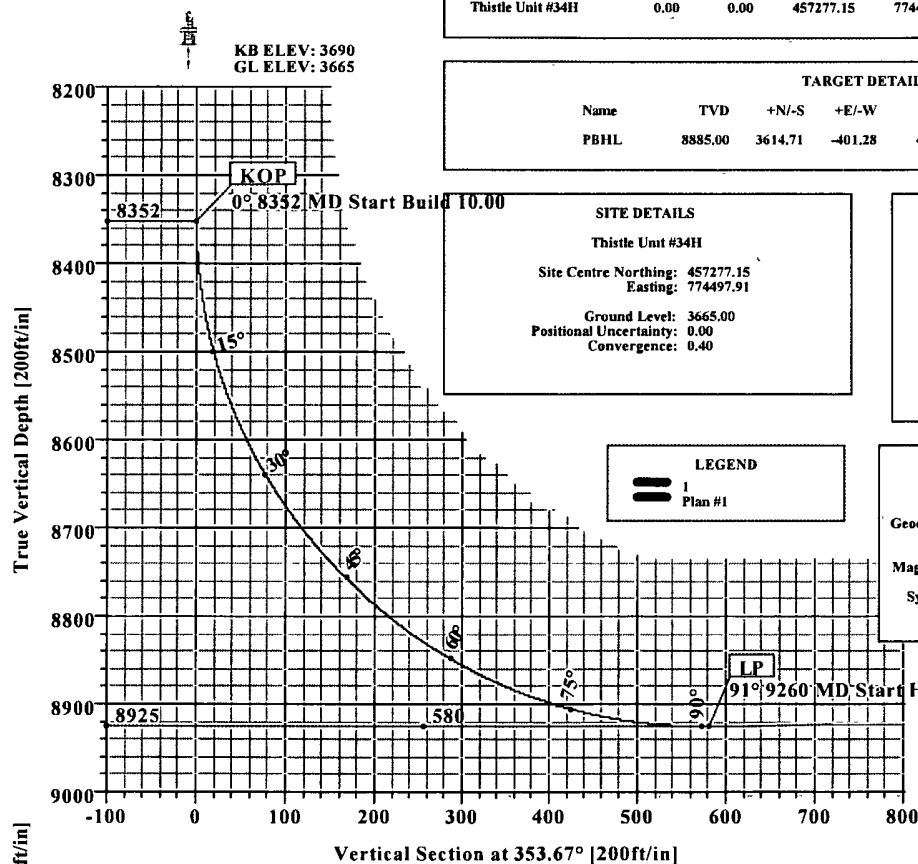
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Thistle Unit #34H	0.00	0.00	457277.15	774497.91	32°15'17.554N	103°34'44.740W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8885.00	3614.71	-401.28	460891.86	774096.63	Point

SITE DETAILS	
Thistle Unit #34H	
Site Centre Northing:	457277.15
Easting:	774497.91
Ground Level:	3665.00
Positional Uncertainty:	0.00
Convergence:	0.40



FIELD DETAILS	
Lea County, New Mexico (NAD 83)	
Geodetic System:	US State Plane Coordinate System 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North





Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Thistle Unit #34H
Well: Thistle Unit #34H
Wellpath: 1

Date: 7/12/2012
Co-ordinate(NE) Reference: Well: Thistle Unit #34H, Gnd North
Vertical (TVD) Reference: SITE 3690.0
Section (VS) Reference: Well (0 00N,0 00E,353.67Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Time: 06:00:44
Page: 1

Plan: Plan #1
Principal: Yes

Date Composed: 7/12/2012
Version: 1
Tied-to: From Surface

Field: Lea County, New Mexico (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Thistle Unit #34H

Site Position: Northing: 457277.15 ft Latitude: 32 15 17.554 N
From: Map Easting: 774497.91 ft Longitude: 103 34 44.740 W
Position Uncertainty: 0.00 ft North Reference: Gnd
Ground Level: 3665.00 ft Grid Convergence: 0.40 deg

Well: Thistle Unit #34H Slot Name:

Well Position: +N/-S 0.00 ft Northing: 457277.15 ft Latitude: 32 15 17.554 N
+E/-W 0.00 ft Easting: 774497.91 ft Longitude: 103 34 44.740 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3690.00 ft
Magnetic Data: 12/15/2012
Field Strength: 48509 nT
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
ft ft deg

0.00 0.00 0.00 353.67

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	353.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8352.09	0.00	353.67	8352.09	0.00	0.00	0.00	0.00	0.00	0.00	
9259.59	90.75	353.67	8925.00	576.91	-64.04	10.00	10.00	0.00	353.67	
12316.31	90.75	353.67	8885.00	3614.71	-401.28	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8300.00	0.00	353.67	8300.00	0.00	0.00	0.00	0.00	457277.15	774497.91	
8352.09	0.00	353.67	8352.09	0.00	0.00	0.00	0.00	457277.15	774497.91	KOP
8400.00	4.79	353.67	8399.94	1.99	-0.22	2.00	10.00	457279.14	774497.69	
8450.00	9.79	353.67	8449.52	8.29	-0.92	8.35	10.00	457285.44	774496.99	
8500.00	14.79	353.67	8498.36	18.87	-2.09	18.99	10.00	457296.02	774495.82	
8550.00	19.79	353.67	8546.09	33.64	-3.73	33.84	10.00	457310.79	774494.18	
8600.00	24.79	353.67	8592.34	52.48	-5.83	52.80	10.00	457329.63	774492.08	
8650.00	29.79	353.67	8636.76	75.26	-8.35	75.72	10.00	457352.41	774489.56	
8700.00	34.79	353.67	8679.01	101.80	-11.30	102.42	10.00	457378.95	774486.61	
8750.00	39.79	353.67	8718.78	131.90	-14.64	132.71	10.00	457409.05	774483.27	
8800.00	44.79	353.67	8755.75	165.32	-18.35	166.34	10.00	457442.47	774479.56	
8850.00	49.79	353.67	8789.65	201.83	-22.41	203.07	10.00	457478.98	774475.50	
8900.00	54.79	353.67	8820.23	241.13	-26.77	242.61	10.00	457518.28	774471.14	
8950.00	59.79	353.67	8847.24	282.93	-31.41	284.67	10.00	457560.08	774466.50	
9000.00	64.79	353.67	8870.48	326.91	-36.29	328.92	10.00	457604.06	774461.62	
9050.00	69.79	353.67	8889.78	372.74	-41.38	375.03	10.00	457649.89	774456.53	
9100.00	74.79	353.67	8904.98	420.07	-46.63	422.65	10.00	457697.22	774451.28	



Weatherford WFT Plan Report - X & Y's



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Thistle Unit #34H
Well: Thistle Unit #34H
Wellpath: 1

Date: 7/12/2012 Time: 06.00 44 Page: 2
Co-ordinate(NE) Reference: Well: Thistle Unit #34H, Grd North
Vertical (TVD) Reference: SITE 3690.0
Section (VS) Reference: Well (0.00N,0.00E,353.67Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
9150.00	79.79	353.67	8915.98	468.53	-52.01	471.41	10.00	457745.68	774445.90	
9200.00	84.79	353.67	8922.68	517.76	-57.48	520.94	10.00	457794.91	774440.43	
9250.00	89.79	353.67	8925.04	567.38	-62.99	570.87	10.00	457844.53	774434.92	
9259.59	90.75	353.67	8925.00	576.91	-64.04	580.46	10.00	457854.06	774433.87	LP
9300.00	90.75	353.67	8924.47	617.07	-68.50	620.86	0.00	457894.22	774429.41	
9400.00	90.75	353.67	8923.16	716.45	-79.54	720.86	0.00	457993.60	774418.37	
9500.00	90.75	353.67	8921.85	815.84	-90.57	820.85	0.00	458092.99	774407.34	
9600.00	90.75	353.67	8920.54	915.22	-101.60	920.84	0.00	458192.37	774396.31	
9700.00	90.75	353.67	8919.24	1014.60	-112.63	1020.83	0.00	458291.75	774385.28	
9800.00	90.75	353.67	8917.93	1113.98	-123.67	1120.82	0.00	458391.13	774374.24	
9900.00	90.75	353.67	8916.62	1213.36	-134.70	1220.81	0.00	458490.51	774363.21	
10000.00	90.75	353.67	8915.31	1312.74	-145.73	1320.80	0.00	458589.89	774352.18	
10100.00	90.75	353.67	8914.00	1412.12	-156.76	1420.80	0.00	458689.27	774341.15	
10200.00	90.75	353.67	8912.69	1511.50	-167.80	1520.79	0.00	458788.65	774330.11	
10300.00	90.75	353.67	8911.38	1610.88	-178.83	1620.78	0.00	458888.03	774319.08	
10400.00	90.75	353.67	8910.08	1710.26	-189.86	1720.77	0.00	458987.41	774308.05	
10500.00	90.75	353.67	8908.77	1809.64	-200.89	1820.76	0.00	459086.79	774297.02	
10600.00	90.75	353.67	8907.46	1909.03	-211.93	1920.75	0.00	459186.18	774285.98	
10700.00	90.75	353.67	8906.15	2008.41	-222.96	2020.74	0.00	459285.56	774274.95	
10800.00	90.75	353.67	8904.84	2107.79	-233.99	2120.74	0.00	459384.94	774263.92	
10900.00	90.75	353.67	8903.53	2207.17	-245.02	2220.73	0.00	459484.32	774252.89	
11000.00	90.75	353.67	8902.22	2306.55	-256.06	2320.72	0.00	459583.70	774241.85	
11100.00	90.75	353.67	8900.92	2405.93	-267.09	2420.71	0.00	459683.08	774230.82	
11200.00	90.75	353.67	8899.61	2505.31	-278.12	2520.70	0.00	459782.46	774219.79	
11300.00	90.75	353.67	8898.30	2604.69	-289.15	2620.69	0.00	459881.84	774208.76	
11400.00	90.75	353.67	8896.99	2704.07	-300.19	2720.68	0.00	459981.22	774197.72	
11500.00	90.75	353.67	8895.68	2803.45	-311.22	2820.68	0.00	460080.60	774186.69	
11600.00	90.75	353.67	8894.37	2902.83	-322.25	2920.67	0.00	460179.98	774175.66	
11700.00	90.75	353.67	8893.06	3002.22	-333.29	3020.66	0.00	460279.37	774164.62	
11800.00	90.75	353.67	8891.76	3101.60	-344.32	3120.65	0.00	460378.75	774153.59	
11900.00	90.75	353.67	8890.45	3200.98	-355.35	3220.64	0.00	460478.13	774142.56	
12000.00	90.75	353.67	8889.14	3300.36	-366.38	3320.63	0.00	460577.51	774131.53	
12100.00	90.75	353.67	8887.83	3399.74	-377.42	3420.62	0.00	460676.89	774120.49	
12200.00	90.75	353.67	8886.52	3499.12	-388.45	3520.62	0.00	460776.27	774109.46	
12300.00	90.75	353.67	8885.21	3598.50	-399.48	3620.61	0.00	460875.65	774098.43	
12316.31	90.75	353.67	8885.00	3614.71	-401.28	3636.92	0.00	460891.86	774096.63	PBHL

Targets

Name	Description Dip.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL		8885.00	3614.71	-401.28	460891.86	774096.63	32 15 53.350 N	103 34 49.118 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Thistle Unit #34H
Well: Thistle Unit #34H
Wellpath: 1

Date: 7/12/2012 Time: 06:00:44 Page: 3
Co-ordinate(NE) Reference: Well: Thistle Unit #34H, Grid North
Vertical (TVD) Reference: SITE 3690.0
Section (VS) Reference: Well (0.00N,0.00E,353.67Az)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
8352.09	8352.09	KOP
9259.59	8925.00	LP
12316.30	8885.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: July 12, 2012

Job Number: _____

Customer: Devon Energy

Well Name: Thistle Unit #34H

API Number: _____

Rig Name: _____

Location: Lea County, NM

Block: _____

Engineer: RWJ

US State Plane 1983

System: New Mexico Eastern Zone

Projection: Transverse Mercator/Gauss Kruger

Datum: North American Datum 1983

Ellipsoid: GRS 1980

North/South 457277.150 USFT

East/West 774497.910 USFT

Grid Convergence: .40°

Total Correction: +7.01°

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Latitude 32.2548786 DEG

Longitude -103.5790895 DEG

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.25488° N 32° 15 min 17.563 sec

Longitude = 103.57909° W 103° 34 min 44.722 sec

Magnetic Declination = 7.41° [True North Offset]

Local Gravity = .9988 g CheckSum = 6546

Local Field Strength = 48505 nT Magnetic Vector X = 23921 nT

Magnetic Dip = 60.18° Magnetic Vector Y = 3110 nT

Magnetic Model = IGRF-2010g11 Magnetic Vector Z = 42082 nT

Spud Date = Dec 15, 2012 Magnetic Vector H = 24123 nT

Signed: _____

Date: _____