

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

RECEIVED

March 13, 2013

NMOC D ARTESIA

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 41239	² Pool Code 64450	³ Pool Name Willow Lake Southwest, Bone Spring
⁴ Property Code 39791	⁵ Property Name NERMAL 4 STATE	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3006.9

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
3	4	25 S	28 E		207	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	4	25 S	28 E		330	SOUTH	1980	WEST	EDDY

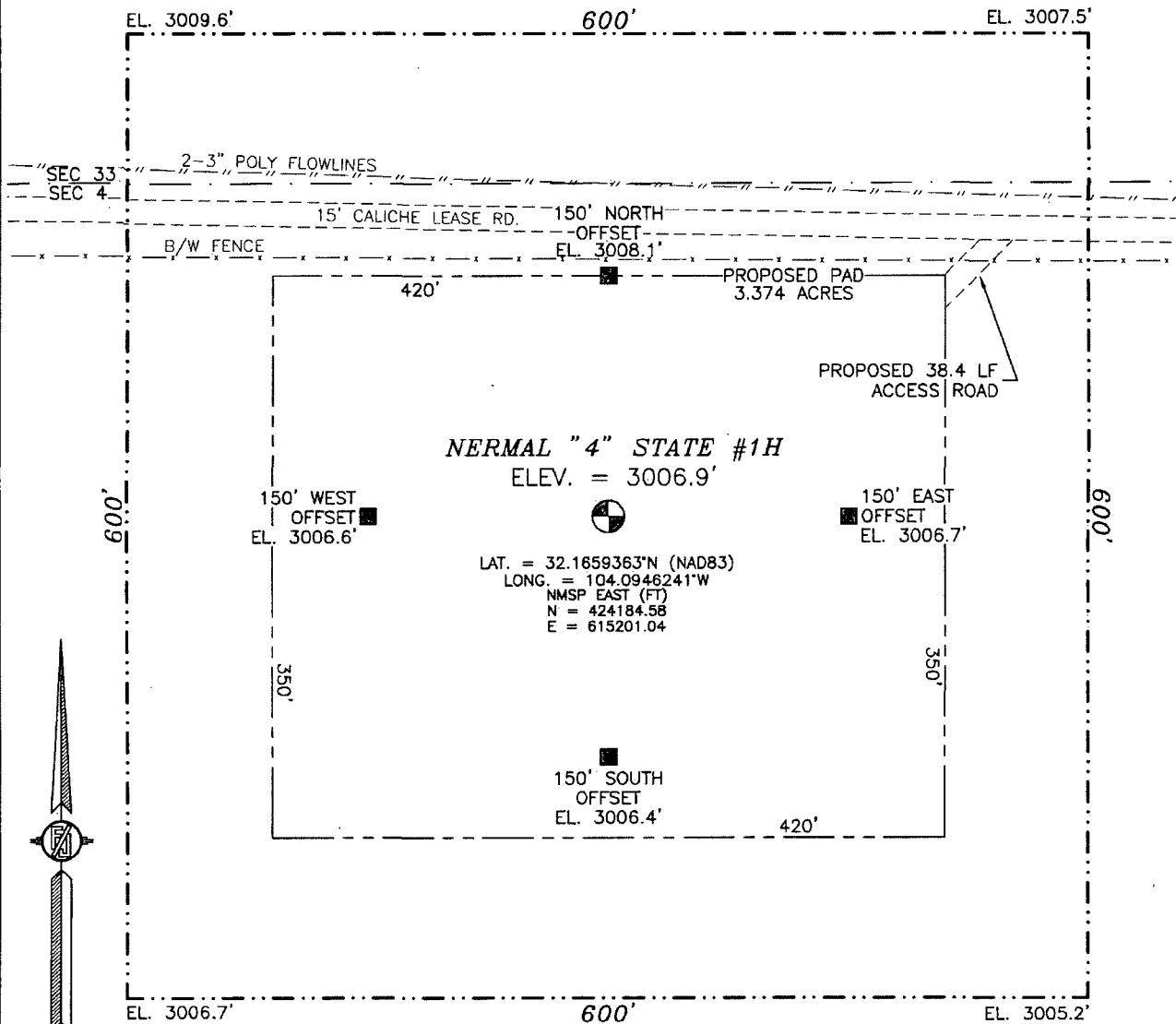
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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.

589°55'51"W 2660.06 FT NW CORNER SEC. 4 LAT. = 32.1665107°N LONG. = 104.1010182°W NMSP EAST (FT) N = 424389.20 E = 613222.06 LOT 4 LOT 3 207' SURFACE LOCATION LOT 2 LOT 1 589°54'45"W 2662.93 FT NE CORNER SEC. 4 LAT. = 32.1664980°N LONG. = 104.0838156°W NMSP EAST (FT) N = 424396.48 E = 618545.04 500°09'47"W 2667.87 FT W O CORNER SEC. 4 LAT. = 32.1591771°N LONG. = 104.1010613°W NMSP EAST (FT) N = 421721.34 E = 613214.47 500°09'53"W 2666.33 FT SW CORNER SEC. 4 LAT. = 32.1519026°N LONG. = 104.1011044°W NMSP EAST (FT) N = 419075.02 E = 613206.86 589°23'22"E 2677.69 FT 330' S O CORNER SEC. 4 LAT. = 32.1518080°N LONG. = 104.0924528°W NMSP EAST (FT) N = 419046.49 E = 615884.40 589°24'37"E 2680.05 FT SE CORNER SEC. 4 LAT. = 32.1517154°N LONG. = 104.0837936°W NMSP EAST (FT) N = 419018.91 E = 618564.31 500°36'17"W 2766.36 FT 500°13'04"E 2611.38 FT		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. <i>Patti Riechers</i> 4/2/2013 Signature Date Patti Riechers, Regulatory Specialist Printed Name Patti.Riechers@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 13, 2013 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: FIDMONTE LARAMILLO, PLS 12797 SURVEY NO. 1618
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SECTION 4, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN DEGREES, MINUTES AND DECIMAL SECONDS FORMAT. BASIS OF BEARING IS NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES MODIFIED TO SURFACE.



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HIGHWAY 285 AND CR 720 (BLACK RIVER VILLAGE) GO SOUTH ON U.S. HIGHWAY 285 APPROX. 5.2 MILES. GO WEST THROUGH CATTLE GUARD AND AROUND TANKS TO A LEASE ROAD. CONTINUE NORTHWEST APPROX. 1.3 MILES. CONTINUE AROUND HORSESHOE IN LEASE ROAD. CONTINUE WEST APPROX. 0.6 OF A MILE, LOCATION IS APPROX. 170 FT. SOUTH.

DEVON ENERGY PRODUCTION COMPANY, L.P.

NERMAL "4" STATE #1H

LOCATED 207 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 4, TOWNSHIP 25 SOUTH,
RANGE 28 EAST, N.M.P.M.

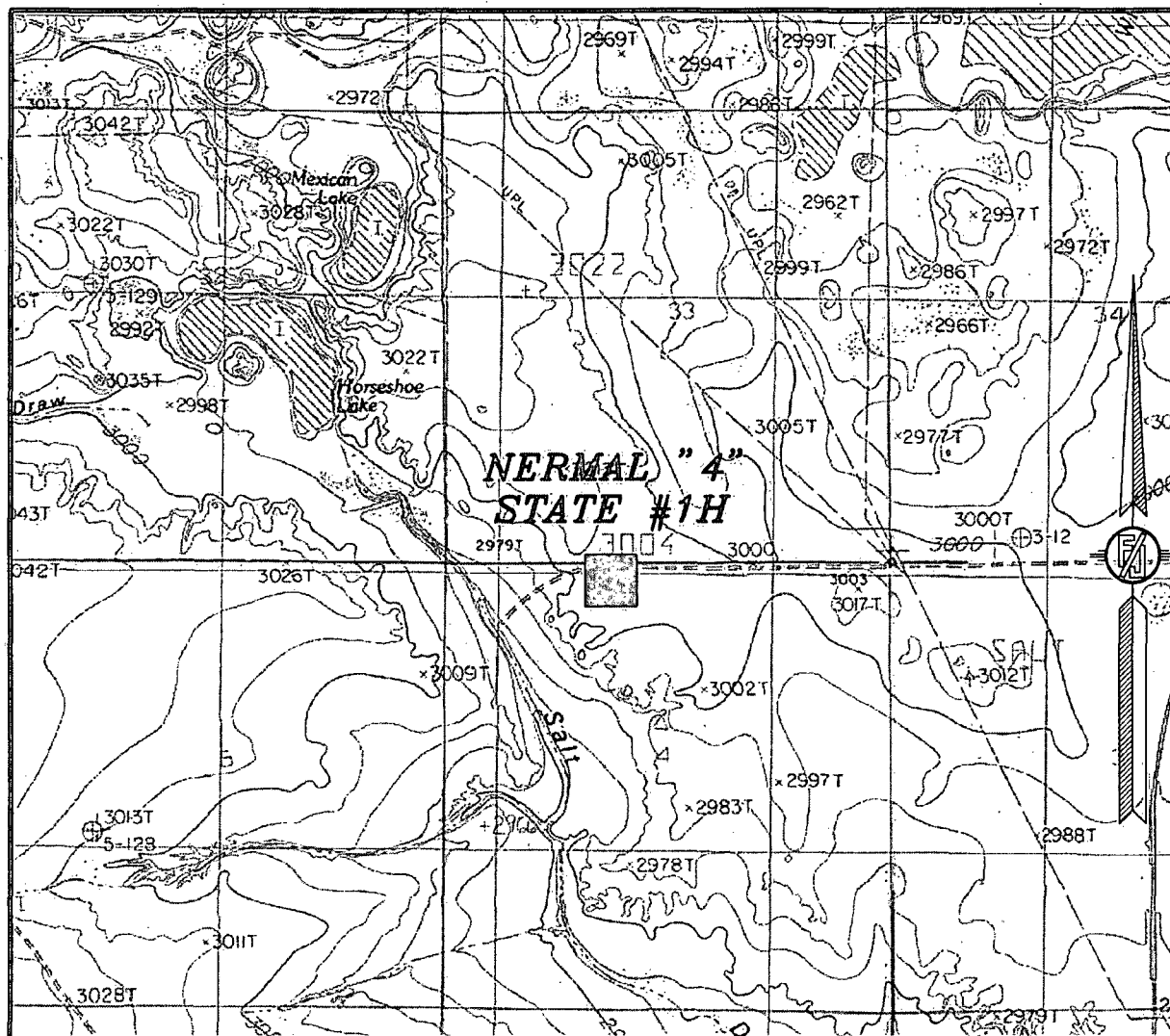
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 13, 2013

SURVEY NO. 1618

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

SECTION 4, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
MALAGA

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

NERMAL "4" STATE #1H

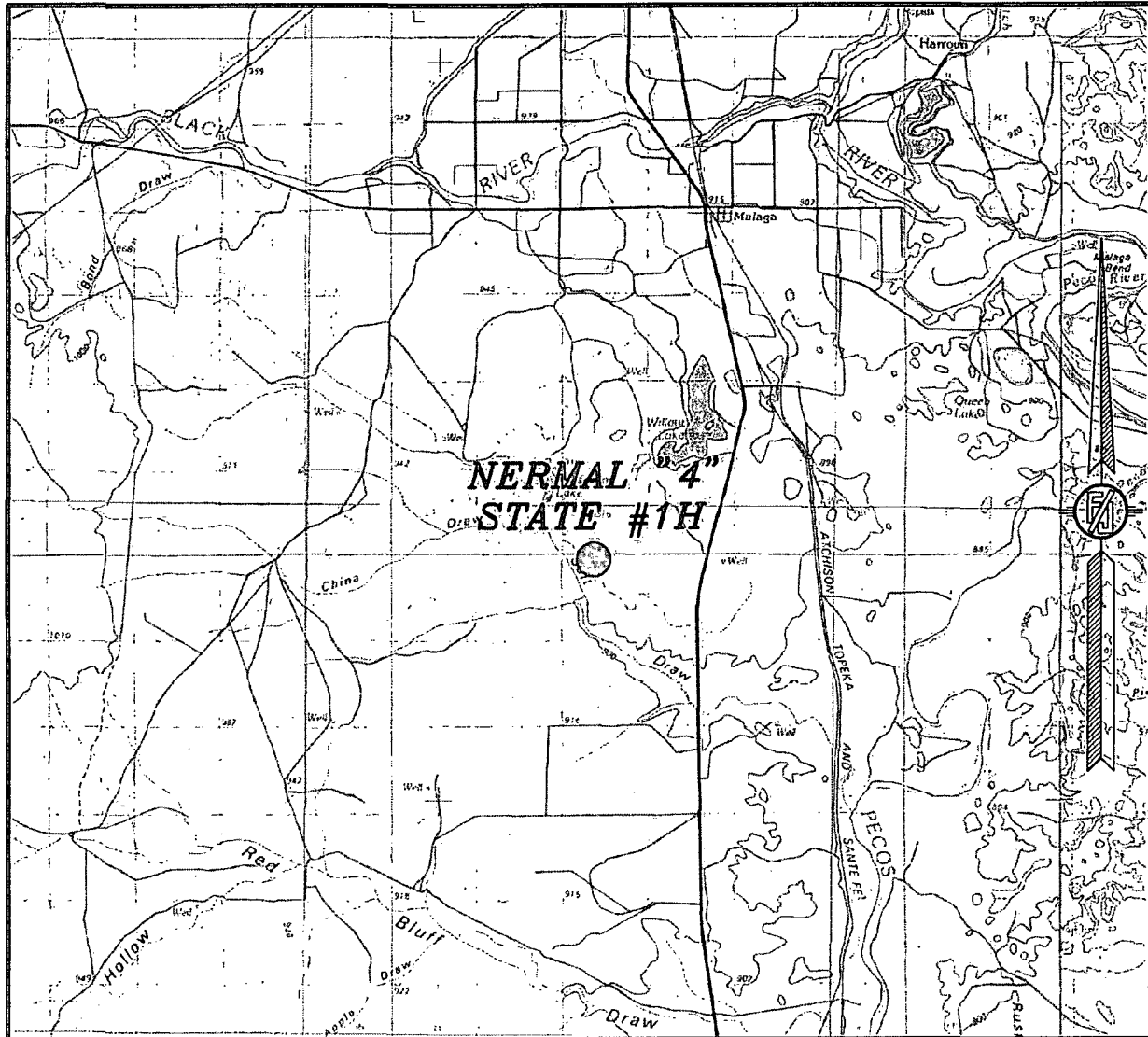
LOCATED 207 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 4, TOWNSHIP 25 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 13, 2013

SURVEY NO. 1618

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

SECTION 4, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

NERMAL "4" STATE #1H

LOCATED 207 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 4, TOWNSHIP 25 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

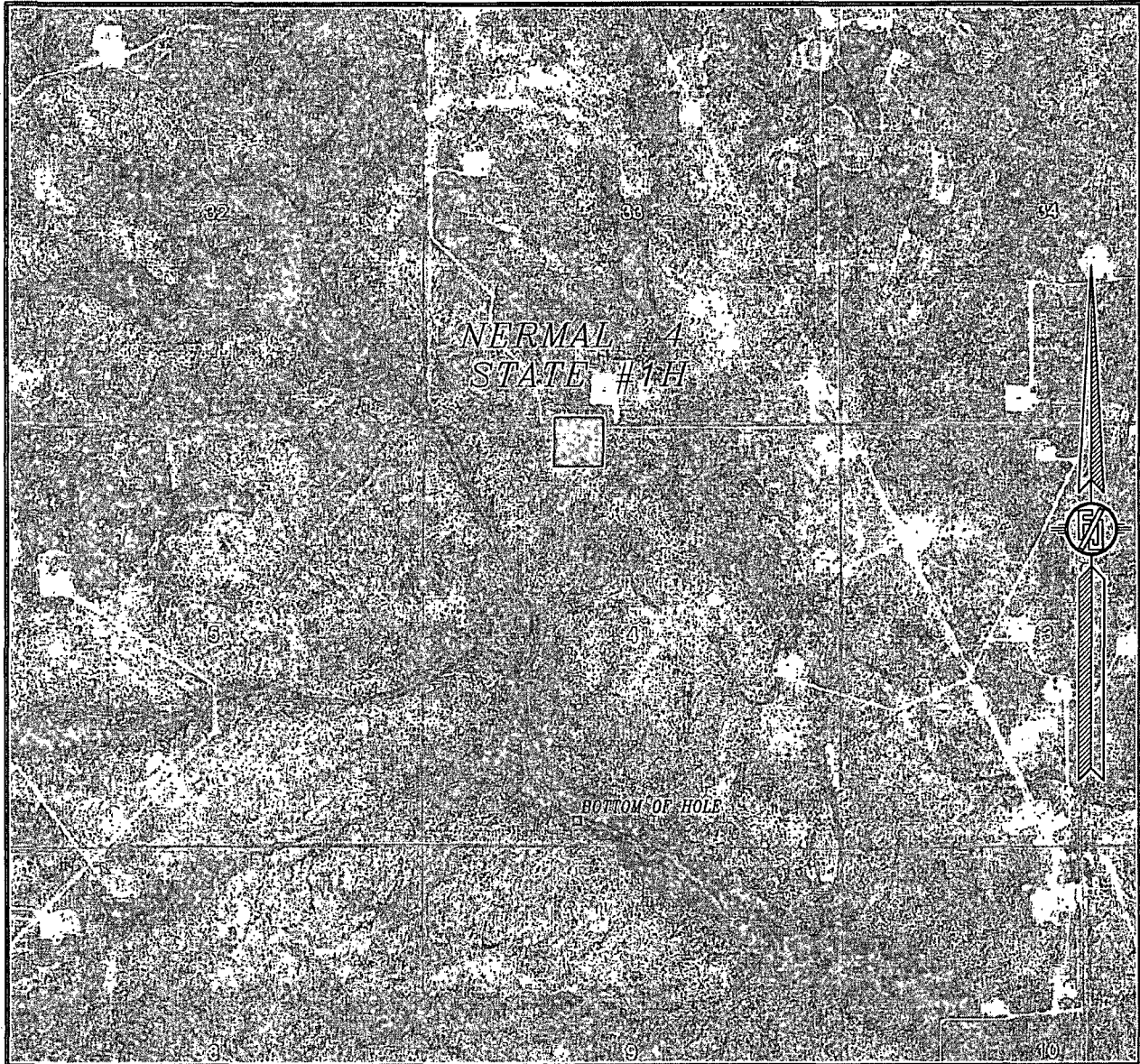
MARCH 13, 2013

SURVEY NO. 1618

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

SECTION 4, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE 2011

DEVON ENERGY PRODUCTION COMPANY, L.P.

NERMAL "4" STATE #1H

LOCATED 207 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 4, TOWNSHIP 25 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

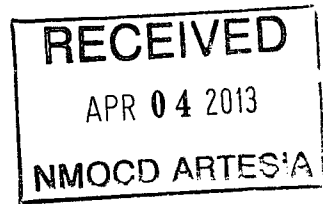
MARCH 13, 2013

SURVEY NO. 1618

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



Weatherford®



Drilling Services

Proposal



devon

NERMAL 4 STATE 1H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 27, 2013

Weatherford International, Ltd.

P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

devon

Nermal 4 State 1H
Eddy County, New Mexico

KB ELEV: 3032
GL ELEV: 3007

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	180.16	0.00	0.00	0.00	0.00	0.00	0.00	
2	7472.04	0.00	180.16	7472.04	0.00	0.00	0.00	0.00	0.00	
3	8372.04	90.00	180.16	8045.00	-572.96	-1.64	10.00	180.16	572.96	
4	12599.82	90.00	180.16	8045.00	-4800.72	-13.78	0.00	0.00	4800.74	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8045.00	-4800.72	-13.78	419383.86	615187.26	Rectangle (4230x100)

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Nermal 4 State 1H	0.00	0.00	424184.58	615201.04	32°09'57.362N	104°05'40.661W	N/A

SITE DETAILS

Nermal 4 State 1H

Site Centre Northing: 424184.58
Easting: 615201.04

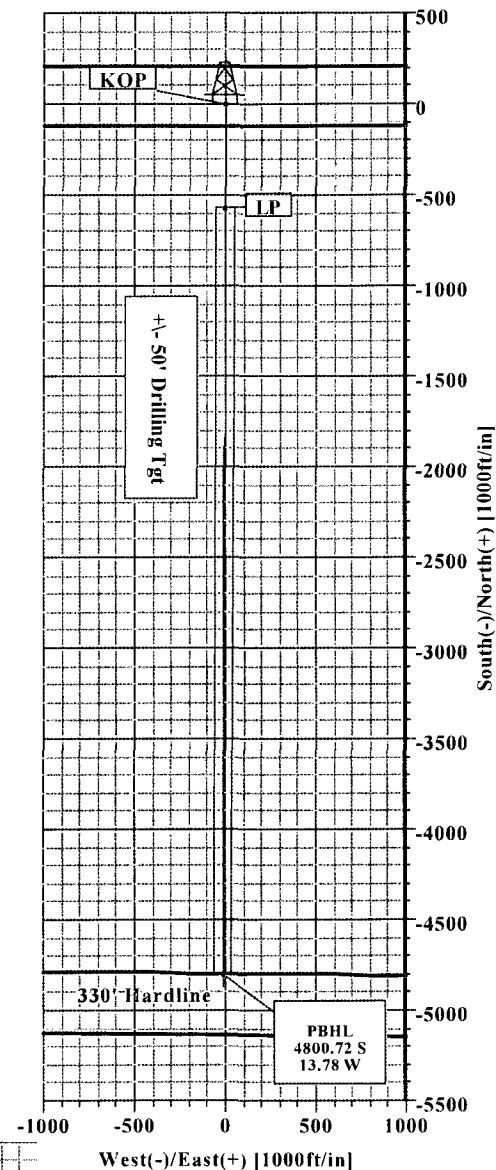
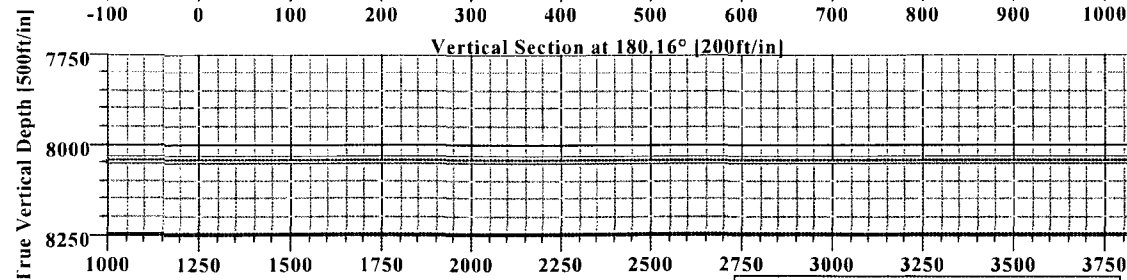
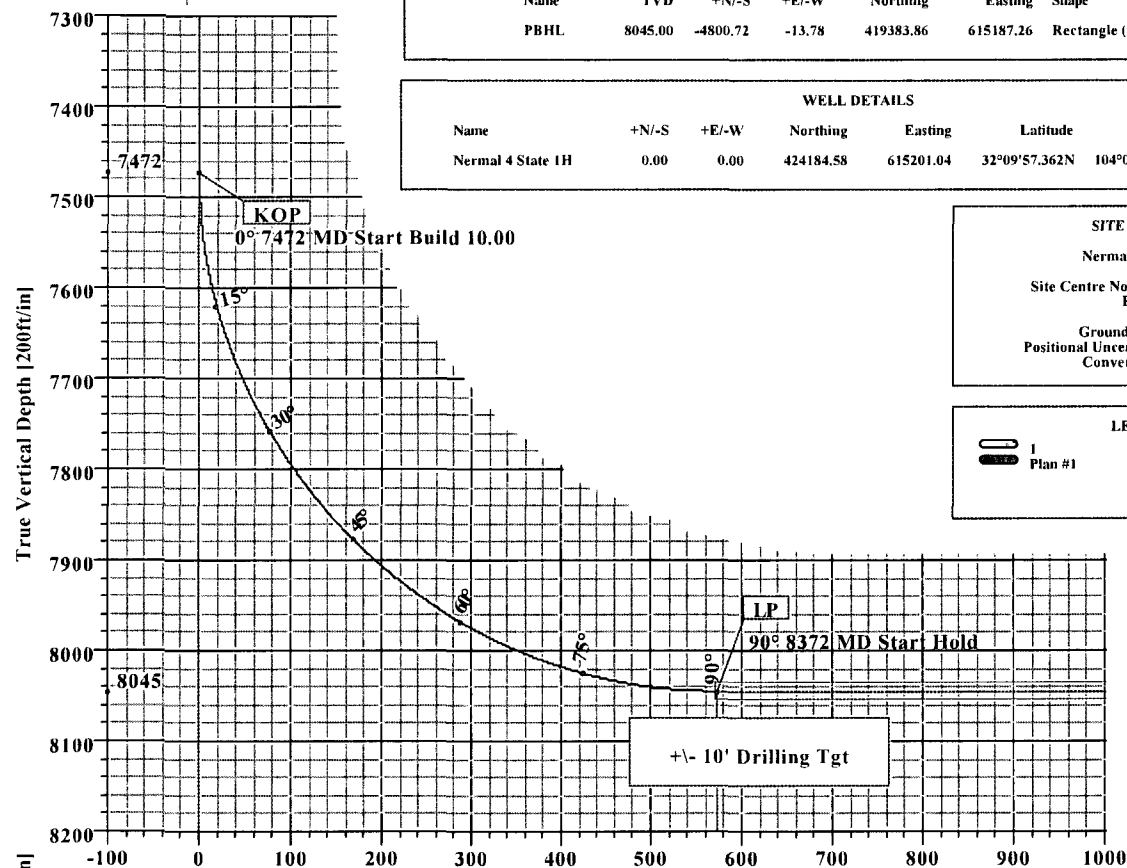
Ground Level: 3007.00
Positional Uncertainty: 0.00
Convergence: 0.13

LEGEND

1 Plan #1



Weatherford



Plan: Plan #1 (Nermal 4 State 1H/1)

Created By: Russell W. Joyner

Date: 3/27/2013



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 3/27/2013 Time: 11:18:18 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Nermal 4 State 1H, Grid North
Site: Nermal 4 State 1H Vertical (TVD) Reference: SITE 3032.0
Well: Nermal 4 State 1H Section (VS) Reference: Well (0.00N,0.00E,180.16Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 3/27/2013
Principal: Yes Version: 1
Tied-to: From Surface

Site: Nermal 4 State 1H

Site Position: Northing: 424184.58 ft Latitude: 32 9 57.362 N
From: Map Easting: 615201.04 ft Longitude: 104 5 40.661 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3007.00 ft Grid Convergence: 0.13 deg

Well: Nermal 4 State 1H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 424184.58 ft Latitude: 32 9 57.362 N
+E/-W 0.00 ft Easting: 615201.04 ft Longitude: 104 5 40.661 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3032.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 5/30/2013 Above System Datum: Mean Sea Level
Field Strength: 48353 nT Declination: 7.58 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 59.99 deg
ft ft +E/-W Direction
deg
0.00 0.00 0.00 180.16

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	180.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7472.04	0.00	180.16	7472.04	0.00	0.00	0.00	0.00	0.00	0.00	
8372.04	90.00	180.16	8045.00	-572.96	-1.64	10.00	10.00	0.00	180.16	
12599.82	90.00	180.16	8045.00	-4800.72	-13.78	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
7400.00	0.00	180.16	7400.00	0.00	0.00	0.00	0.00	424184.58	615201.04	
7472.04	0.00	180.16	7472.04	0.00	0.00	0.00	0.00	424184.58	615201.04	KOP
7500.00	2.80	180.16	7499.99	-0.68	0.00	0.68	10.00	424183.90	615201.04	
7600.00	12.80	180.16	7598.94	-14.23	-0.04	14.23	10.00	424170.35	615201.00	
7700.00	22.80	180.16	7694.03	-44.75	-0.13	44.75	10.00	424139.83	615200.91	
7800.00	32.80	180.16	7782.38	-91.33	-0.26	91.33	10.00	424093.25	615200.78	
7900.00	42.80	180.16	7861.30	-152.53	-0.44	152.53	10.00	424032.05	615200.60	
8000.00	52.80	180.16	7928.39	-226.51	-0.65	226.51	10.00	423958.07	615200.39	
8100.00	62.80	180.16	7981.62	-311.02	-0.89	311.02	10.00	423873.56	615200.15	
8200.00	72.80	180.16	8019.36	-403.49	-1.16	403.49	10.00	423781.09	615199.88	
8300.00	82.80	180.16	8040.48	-501.10	-1.44	501.11	10.00	423683.48	615199.60	
8372.04	90.00	180.16	8045.00	-572.96	-1.64	572.96	10.00	423611.62	615199.40	LP
8400.00	90.00	180.16	8045.00	-600.91	-1.72	600.92	0.00	423583.67	615199.32	
8500.00	90.00	180.16	8045.00	-700.91	-2.01	700.92	0.00	423483.67	615199.03	
8600.00	90.00	180.16	8045.00	-800.91	-2.30	800.92	0.00	423383.67	615198.74	
8700.00	90.00	180.16	8045.00	-900.91	-2.59	900.92	0.00	423283.67	615198.45	
8800.00	90.00	180.16	8045.00	-1000.91	-2.87	1000.92	0.00	423183.67	615198.17	
8900.00	90.00	180.16	8045.00	-1100.91	-3.16	1100.92	0.00	423083.67	615197.88	
9000.00	90.00	180.16	8045.00	-1200.91	-3.45	1200.92	0.00	422983.67	615197.59	
9100.00	90.00	180.16	8045.00	-1300.91	-3.73	1300.92	0.00	422883.67	615197.31	
9200.00	90.00	180.16	8045.00	-1400.91	-4.02	1400.92	0.00	422783.67	615197.02	
9300.00	90.00	180.16	8045.00	-1500.91	-4.31	1500.92	0.00	422683.67	615196.73	
9400.00	90.00	180.16	8045.00	-1600.91	-4.60	1600.92	0.00	422583.67	615196.44	



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Nermal 4 State 1H
Well: Nermal 4 State 1H
Wellpath: 1

Date: 3/27/2013 Time: 11:18:18 Page: 2
Co-ordinate(NE) Reference: Well: Nermal 4 State 1H, Grid North
Vertical (TVD) Reference: SITE 3032.0
Section (VS) Reference: Well (0.00N,0.00E,180.16Azi)
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
9500.00	90.00	180.16	8045.00	-1700.91	-4.88	1700.92	0.00	422483.67	615196.16	
9600.00	90.00	180.16	8045.00	-1800.91	-5.17	1800.92	0.00	422383.67	615195.87	
9700.00	90.00	180.16	8045.00	-1900.91	-5.46	1900.92	0.00	422283.67	615195.58	
9800.00	90.00	180.16	8045.00	-2000.91	-5.74	2000.92	0.00	422183.67	615195.30	
9900.00	90.00	180.16	8045.00	-2100.91	-6.03	2100.92	0.00	422083.67	615195.01	
10000.00	90.00	180.16	8045.00	-2200.91	-6.32	2200.92	0.00	421983.67	615194.72	
10100.00	90.00	180.16	8045.00	-2300.91	-6.60	2300.92	0.00	421883.67	615194.44	
10200.00	90.00	180.16	8045.00	-2400.91	-6.89	2400.92	0.00	421783.67	615194.15	
10300.00	90.00	180.16	8045.00	-2500.91	-7.18	2500.92	0.00	421683.67	615193.86	
10400.00	90.00	180.16	8045.00	-2600.90	-7.47	2600.92	0.00	421583.68	615193.57	
10500.00	90.00	180.16	8045.00	-2700.90	-7.75	2700.92	0.00	421483.68	615193.29	
10600.00	90.00	180.16	8045.00	-2800.90	-8.04	2800.92	0.00	421383.68	615193.00	
10700.00	90.00	180.16	8045.00	-2900.90	-8.33	2900.92	0.00	421283.68	615192.71	
10800.00	90.00	180.16	8045.00	-3000.90	-8.61	3000.92	0.00	421183.68	615192.43	
10900.00	90.00	180.16	8045.00	-3100.90	-8.90	3100.92	0.00	421083.68	615192.14	
11000.00	90.00	180.16	8045.00	-3200.90	-9.19	3200.92	0.00	420983.68	615191.85	
11100.00	90.00	180.16	8045.00	-3300.90	-9.47	3300.92	0.00	420883.68	615191.57	
11200.00	90.00	180.16	8045.00	-3400.90	-9.76	3400.92	0.00	420783.68	615191.28	
11300.00	90.00	180.16	8045.00	-3500.90	-10.05	3500.92	0.00	420683.68	615190.99	
11400.00	90.00	180.16	8045.00	-3600.90	-10.34	3600.92	0.00	420583.68	615190.70	
11500.00	90.00	180.16	8045.00	-3700.90	-10.62	3700.92	0.00	420483.68	615190.42	
11600.00	90.00	180.16	8045.00	-3800.90	-10.91	3800.92	0.00	420383.68	615190.13	
11700.00	90.00	180.16	8045.00	-3900.90	-11.20	3900.92	0.00	420283.68	615189.84	
11800.00	90.00	180.16	8045.00	-4000.90	-11.48	4000.92	0.00	420183.68	615189.56	
11900.00	90.00	180.16	8045.00	-4100.90	-11.77	4100.92	0.00	420083.68	615189.27	
12000.00	90.00	180.16	8045.00	-4200.90	-12.06	4200.92	0.00	419983.68	615188.98	
12100.00	90.00	180.16	8045.00	-4300.90	-12.35	4300.92	0.00	419883.68	615188.69	
12200.00	90.00	180.16	8045.00	-4400.90	-12.63	4400.92	0.00	419783.68	615188.41	
12300.00	90.00	180.16	8045.00	-4500.90	-12.92	4500.92	0.00	419683.68	615188.12	
12400.00	90.00	180.16	8045.00	-4600.90	-13.21	4600.92	0.00	419583.68	615187.83	
12500.00	90.00	180.16	8045.00	-4700.90	-13.49	4700.92	0.00	419483.68	615187.55	
12599.82	90.00	180.16	8045.00	-4800.72	-13.78	4800.74	0.00	419383.86	615187.26	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL			8045.00	-4800.72	-13.78	419383.86	615187.26	32 9 9.855 N	104 5 40.945 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7472.04	7472.04	KOP
8372.04	8045.00	LP
12599.82	8045.00	PBHL

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

GeoDec v5.03

Report Date: March 27, 2013

Job Number: _____

Customer: Devon

Well Name: Nermal 4 State 1H

API Number: _____

Rig Name: _____

Location: Eddy Co., NM

Block: _____

Engineer: RWJ

US State Plane 1983

Geodetic Latitude / Longitude

System: New Mexico Eastern Zone

System: Latitude / Longitude

Projection: Transverse Mercator/Gauss Kruger

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Ellipsoid: GRS 1980

North/South 424184.580 USFT

Latitude 32.1659363 DEG

East/West 615201.040 USFT

Longitude -104.0946241 DEG

Grid Convergence: .13°

Total Correction: +7.56°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.16594° N 32° 9 min 57.371 sec

Longitude = 104.09462° W 104° 5 min 40.647 sec

Magnetic Declination =

7.69°

[True North Offset]

Local Gravity =

.9988 g

Checksum =

6795

Local Field Strength =

48320 nT

Magnetic Vector X =

23982 nT

Magnetic Dip =

59.95°

Magnetic Vector Y =

3238 nT

Magnetic Model =

bggm2012

Magnetic Vector Z =

41823 nT

Spud Date =

May 30, 2013

Magnetic Vector H =

24199 nT

Signed: _____

Date: _____