

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2001

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
MAR 26 2010
NMOCD ARTESIA

Submit to appropriate District Office
☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 20 N. Broadway, Oklahoma City, OK 73102		² OGRID Number 6137
³ Property Code	⁵ Property Name HB 2 STATE	³ API Number 30-015-32715
⁹ Proposed Pool Bone Spring		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	24S	29E		660'	SOUTH	660'	WEST	EDDY

⁸ Proposed 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	24S	29E		330'	NORTH	990'	WEST	EDDY

Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3044'
¹⁶ Multiple N	¹⁷ Proposed Depth 11,834'	¹⁸ Formation Bone Springs	¹⁹ Contractor	²⁰ Spud Date 1/23/04

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	540'	500sx circ 60sx	
12 1/4"	9 5/8"	36#	3073'	1300sx circ 200	
8 3/4"	7"	26#	10,400'	770 sx	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Devon Energy Production Company, L. P. proposes to sidetrack the existing wellbore by setting a CIBP & cement and a whipstock @ ~ 7100' inside the 7" casing. We propose to drill to a BHL of 330' FNL & 990' FWL @ a proposed TD @ 11,834' MD (7,740' TVD). We will RIH w/ 4 1/2" 11.60# casing & set @ 11,834' and cement w/ 900 sx cement. TOC @ 6600' A 5000# BOP system will be used

Attached: C-102
Directional Survey

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature



Printed name:
Judy A. Barnett

Title:
Regulatory Analyst

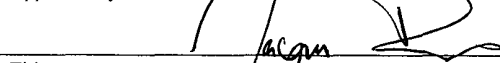
E-mail Address: Judith.Barnett@dmn.com

Date:
3/26/10

Phone:
405 228.8699

OIL CONSERVATION DIVISION

Approved by.



Title.

Approval Date:

4/14/2010

Expiration Date.

Conditions of Approval Attached ☐

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0718

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-32715	Pool Code 11520	Pool Name BONE SPRING
Property Code	Property Name HB 2 STATE	Well Number 3
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3044'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	24-S	29-E		660	SOUTH	660'	WEST	EDDY

Bottom Hole Location If Different From Surface

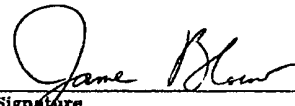
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	2	24S	29E		330	NORTH	990'	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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

LOT 4	LOT 3	LOT 2	LOT 1
GEODETIC COORDINATES NAD 1927 NME Y= 451631.0 X= 615064.7 LAT. 32°14'27.97"N LONG. 103°57'40.23"W		RECEIVED APR 0 8 2004 OCD-ARTESIA	
660' 660'			

OPERATOR CERTIFICATION

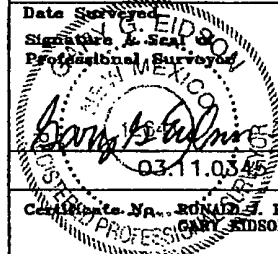
I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.


Signature
James Blount
Printed Name
Operations Engineer
Title
03/30/04
Date

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 25 2003

Date Surveyed
Signature & Seal of Professional Surveyor

3/24/03
03.11.0345
C. J. KIDSON 3239
12641



Weatherford®

Drilling Services

Proposal



devon

H.B. 2 STATE #3H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 17, 2010

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Company: Devon Energy Date: 3/17/2010 Time: 12:02.18 Page: 1
 Field: Eddy Co., NM (NAD 27) Co-ordinate(NE) Reference: Well: H.B State #3H, Grid North
 Site: H.B 2 State #3H Vertical (TVD) Reference: SITE 3069.0
 Well: H.B 2 State #3H Section (VS) Reference: Well (0.00N,0.00E,4.40Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Eddy Co., NM (NAD 27)

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

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

Site: H.B State #3H

Site Position: Northing: 451631.00 ft Latitude: 32 14 27.969 N
 From: Map Easting: 615064.70 ft Longitude: 103 57 40.228 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3044.00 ft Grid Convergence: 0.20 deg

Well: H.B State #3H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 451631.00 ft Latitude: 32 14 27.969 N
 +E/-W 0.00 ft Easting: 615064.70 ft Longitude: 103 57 40.228 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface

Current Datum: SITE Height 3069.00 ft Tie-on Depth: 0.00 ft
 Magnetic Data: 4/30/2010 Above System Datum: Mean Sea Level
 Field Strength: 48721 nT Declination: 7.90 deg
 Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.16 deg
 ft +E/-W Direction
 deg
 7740.00 0.00 0.00 4.40

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7099.57	0.00	0.00	7099.57	0.00	0.00	0.00	0.00	0.00	0.00	
7114.57	2.00	39.79	7114.57	0.20	0.17	13.33	13.33	0.00	39.79	
7119.57	2.00	39.79	7119.57	0.34	0.28	0.00	0.00	0.00	0.00	
7706.61	59.24	39.79	7604.02	220.63	183.78	9.75	9.75	0.00	0.00	
8205.94	90.00	0.00	7740.00	662.00	330.00	9.75	6.16	-7.97	-58.45	Lp
11833.94	90.00	0.00	7740.00	4290.00	330.00	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
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	451631.00	615064.70	
7099.57	0.00	0.00	7099.57	0.00	0.00	0.00	0.00	451631.00	615064.70	Top Whip
7100.00	0.06	39.79	7100.00	0.00	0.00	0.00	13.33	451631.00	615064.70	
7114.57	2.00	39.79	7114.57	0.20	0.17	0.21	13.33	451631.20	615064.87	Btm Whip
7119.57	2.00	39.79	7119.57	0.34	0.28	0.36	0.00	451631.34	615064.98	Build
7200.00	9.84	39.79	7199.50	6.70	5.58	7.11	9.75	451637.70	615070.28	
7300.00	19.59	39.79	7296.11	26.20	21.82	27.80	9.75	451657.20	615086.52	
7400.00	29.34	39.79	7387.02	57.98	48.30	61.52	9.75	451688.98	615113.00	
7500.00	39.09	39.79	7469.61	101.14	84.25	107.30	9.75	451732.14	615148.95	
7600.00	48.84	39.79	7541.50	154.41	128.63	163.82	9.75	451785.41	615193.33	
7700.00	58.59	39.79	7600.60	216.27	180.16	229.45	9.75	451847.27	615244.86	
7706.61	59.24	39.79	7604.02	220.63	183.78	234.07	9.75	451851.63	615248.48	Build/Turn
7800.00	64.28	31.19	7648.25	287.58	231.35	304.48	9.75	451918.58	615296.05	
7900.00	70.20	22.78	7686.98	369.70	272.99	389.54	9.75	452000.70	615337.69	
8000.00	76.48	14.98	7715.68	460.25	303.84	482.20	9.75	452091.25	615368.54	
8100.00	82.99	7.60	7733.51	556.63	323.03	579.77	9.75	452187.63	615387.73	
8200.00	89.61	0.42	7739.98	656.06	329.98	679.44	9.75	452287.06	615394.68	
8205.94	90.00	0.00	7740.00	662.00	330.00	685.36	9.75	452293.00	615394.70	Lp



Company: Devon Energy	Date: 3/17/2010	Time: 12:02:18	Page: 2
Field: Eddy Co., NM (NAD 27)	Co-ordinate(NE) Reference:	Well: H.B State #3H, Grid North	
Site: H.B 2 State #3H	Vertical (TVD) Reference:	SITE 3069.0	
Well: H.B 2 State #3H	Section (VS) Reference:	Well (0.00N,0.00E,4.40Azi)	
Wellpath: 1	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	Comment
8300.00	90.00	0.00	7740.00	756.06	330.00	779.14	0.00	452387.06	615394.70	
8400.00	90.00	0.00	7740.00	856.06	330.00	878.85	0.00	452487.06	615394.70	
8500.00	90.00	0.00	7740.00	956.06	330.00	978.56	0.00	452587.06	615394.70	
8600.00	90.00	0.00	7740.00	1056.06	330.00	1078.26	0.00	452687.06	615394.70	
8700.00	90.00	0.00	7740.00	1156.06	330.00	1177.97	0.00	452787.06	615394.70	
8800.00	90.00	0.00	7740.00	1256.06	330.01	1277.67	0.00	452887.06	615394.71	
8900.00	90.00	0.00	7740.00	1356.06	330.01	1377.38	0.00	452987.06	615394.71	
9000.00	90.00	0.00	7740.00	1456.06	330.01	1477.08	0.00	453087.06	615394.71	
9100.00	90.00	0.00	7740.00	1556.06	330.01	1576.79	0.00	453187.06	615394.71	
9200.00	90.00	0.00	7740.00	1656.06	330.01	1676.49	0.00	453287.06	615394.71	
9300.00	90.00	0.00	7740.00	1756.06	330.01	1776.20	0.00	453387.06	615394.71	
9400.00	90.00	0.00	7739.99	1856.06	330.01	1875.91	0.00	453487.06	615394.71	
9500.00	90.00	0.00	7739.99	1956.06	330.01	1975.61	0.00	453587.06	615394.71	
9600.00	90.00	0.00	7739.99	2056.06	330.01	2075.32	0.00	453687.06	615394.71	
9700.00	90.00	0.00	7739.99	2156.06	330.01	2175.02	0.00	453787.06	615394.71	
9800.00	90.00	0.00	7739.99	2256.06	330.01	2274.73	0.00	453887.06	615394.71	
9900.00	90.00	0.00	7739.99	2356.06	330.02	2374.43	0.00	453987.06	615394.72	
10000.00	90.00	0.00	7739.99	2456.06	330.02	2474.14	0.00	454087.06	615394.72	
10100.00	90.00	0.00	7739.99	2556.06	330.02	2573.84	0.00	454187.06	615394.72	
10200.00	90.00	0.00	7739.99	2656.06	330.02	2673.55	0.00	454287.06	615394.72	
10300.00	90.00	0.00	7739.99	2756.06	330.02	2773.25	0.00	454387.06	615394.72	
10400.00	90.00	0.00	7739.99	2856.06	330.02	2872.96	0.00	454487.06	615394.72	
10500.00	90.00	0.00	7739.99	2956.06	330.02	2972.67	0.00	454587.06	615394.72	
10600.00	90.00	0.00	7739.99	3056.06	330.02	3072.37	0.00	454687.06	615394.72	
10700.00	90.00	0.00	7739.99	3156.06	330.02	3172.08	0.00	454787.06	615394.72	
10800.00	90.00	0.00	7739.99	3256.06	330.02	3271.78	0.00	454887.06	615394.72	
10900.00	90.00	0.00	7739.99	3356.06	330.03	3371.49	0.00	454987.06	615394.73	
11000.00	90.00	0.00	7739.99	3456.06	330.03	3471.19	0.00	455087.06	615394.73	
11100.00	90.00	0.00	7739.99	3556.06	330.03	3570.90	0.00	455187.06	615394.73	
11200.00	90.00	0.00	7739.99	3656.06	330.03	3670.60	0.00	455287.06	615394.73	
11300.00	90.00	0.00	7739.99	3756.06	330.03	3770.31	0.00	455387.06	615394.73	
11400.00	90.00	0.00	7739.99	3856.06	330.03	3870.02	0.00	455487.06	615394.73	
11500.00	90.00	0.00	7739.99	3956.06	330.03	3969.72	0.00	455587.06	615394.73	
11600.00	90.00	0.00	7739.99	4056.06	330.03	4069.43	0.00	455687.06	615394.73	
11700.00	90.00	0.00	7739.98	4156.06	330.03	4169.13	0.00	455787.06	615394.73	
11800.00	90.00	0.00	7739.98	4256.06	330.03	4268.84	0.00	455887.06	615394.73	
11833.94	90.00	0.00	7740.00	4290.00	330.00	4302.67	0.00	455921.00	615394.70	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
Lp			7740.00	662.00	330.00	452293.00	615394.70	32 14 34.509 N	103 57 36.359 W
Pbhl			7740.00	4290.00	330.00	455921.00	615394.70	32 15 10.412 N	103 57 36.212 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Company: Devon Energy	Date: 3/17/2010	Time: 12:02:18	Page: 3
Field: Eddy Co., NM (NAD 27)	Co-ordinate(NE) Reference:	Well: H.B State #3H	Grid North
Site: H.B 2 State #3H	Vertical (TVD) Reference:	SITE 3069.0	
Well: H.B 2 State #3H	Section (VS) Reference:	Well (0.00N,0.00E,4.40Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
7099.57	7099.57	Top Whip
7114.57	7114.57	Btm Whip
7119.57	7119.56	Build
7706.61	7604.02	Build/Turn
8205.94	7740.00	Lp
11833.94	7739.98	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: March 17, 2010

Job Number: _____

Customer: Devon Energy

Well Name: H.B 2 State #3H

API Number: _____

Rig Name: _____

Location: Eddy Co, NM

Block: _____

Engineer: R Joyner

US State Plane 1927

Geodetic Latitude / Longitude

System: New Mexico East 3001 (NON-EXACT) System: Latitude / Longitude

Projection: SPC27 Transverse Mercator

Projection: Geodetic Latitude and Longitude

Datum: NAD 1927 (NADCON CONUS)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Ellipsoid: Clarke 1866

North/South 451631.000 USFT

Latitude 32.2411026 DEG

East/West 615064.700 USFT

Longitude -103.9611745 DEG

Grid Convergence: .20°

Total Correction: +7.70°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.24110° N 32° 14 min 27.969 sec

Longitude = 103.96117° W 103° 57 min 40.228 sec

Magnetic Declination = 7.90° [True North Offset]

Local Gravity = .9988 g CheckSum = 6587

Local Field Strength = 48717 nT Magnetic Vector X = 24009 nT

Magnetic Dip = 60.16° Magnetic Vector Y = 3333 nT

Magnetic Model = IGRF-2010g11 Magnetic Vector Z = 42259 nT

Spud Date = Apr 30, 2010 Magnetic Vector H = 24239 nT

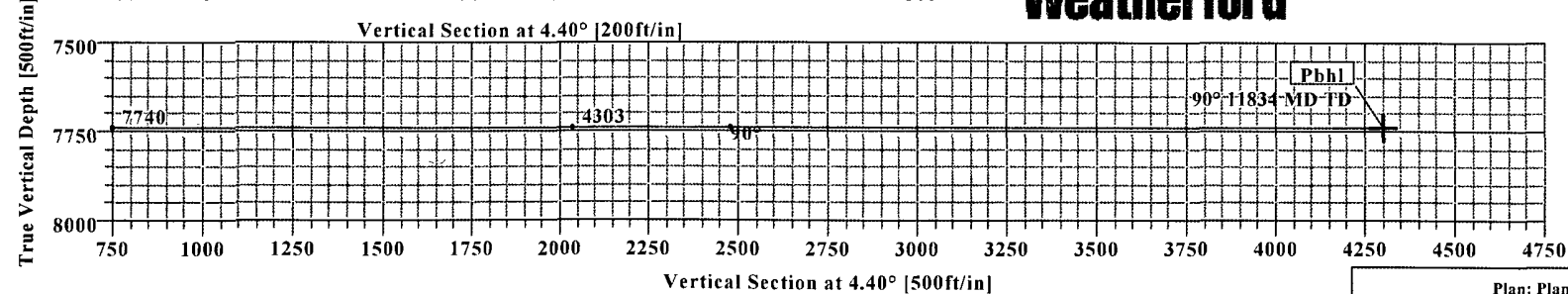
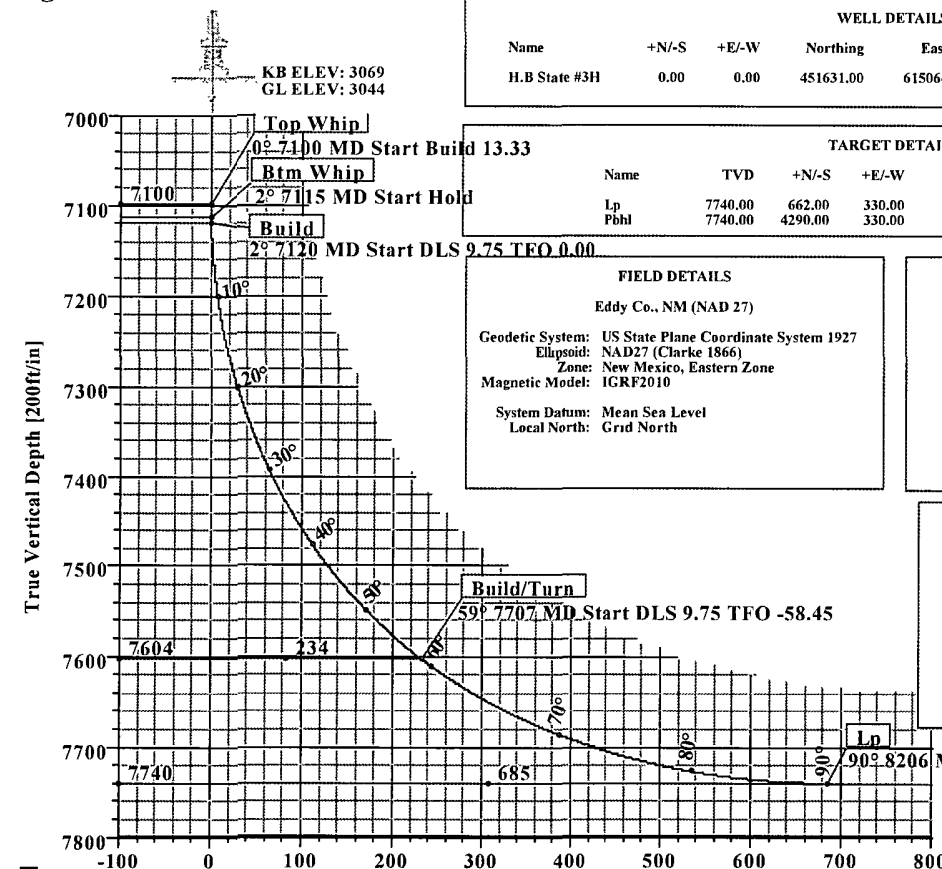
Signed: _____

Date: _____

devon

H.B. 2 State #3H
Eddy Co., New Mexico

Rig ?



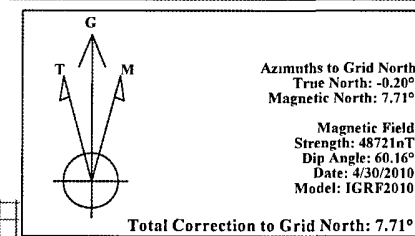
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	7099.57	0.00	0.00	7099.57	0.00	0.00	0.00	0.00	0.00		
3	7114.57	2.00	39.79	7114.57	0.20	0.17	13.33	39.79	0.21		
4	7119.57	2.00	39.79	7119.56	0.34	0.28	0.00	0.00	0.36		
5	7706.61	59.24	39.79	7604.02	220.63	183.78	9.75	0.00	234.07		
6	8205.94	90.00	0.00	7740.00	662.00	330.00	9.75	-58.45	685.36	Lp	
7	11833.94	90.00	0.00	7740.00	4290.00	330.00	0.00	0.00	4302.67	Pbh1	

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
H.B State #3H	0.00	0.00	451631.00	615064.70	32°14'27.969N	103°57'40.228W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
Lp	7740.00	662.00	330.00	452293.00	615394.70	Point	
Pbh1	7740.00	4290.00	330.00	455921.00	615394.70	Point	

FIELD DETAILS
Eddy Co., NM (NAD 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS
H.B State #3H
Site Centre Northing: 451631.00
Easting: 615064.70
Ground Level: 3044.00
Positional Uncertainty: 0.00
Convergence: 0.20



Weatherford

