

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

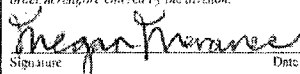
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ APN Number 30-015-43372		² Pool Code 55510	³ Pool Name Scanlon Draw; Bone Spring	
⁴ Property Code 38436	⁵ Property Name EMERALD PWU 20			⁶ Well Number 62H
⁷ GRID NO. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION CO., L.P.			⁹ Elevation 3318'
¹⁰ Surface Location				
UL or lot no. M	Section 20	Township 19S	Range 29E	Feet from the 1238
		North/South line SOUTH		Feet from the 248
		East/West line WEST		County EDDY
¹¹ Bottom Hole Location If Different From Surface				
UL or lot no. P	Section 20	Township 19S	Range 29E	Feet from the 1280
		North/South line SOUTH		Feet from the 270
		East/West line EAST		County EDDY
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

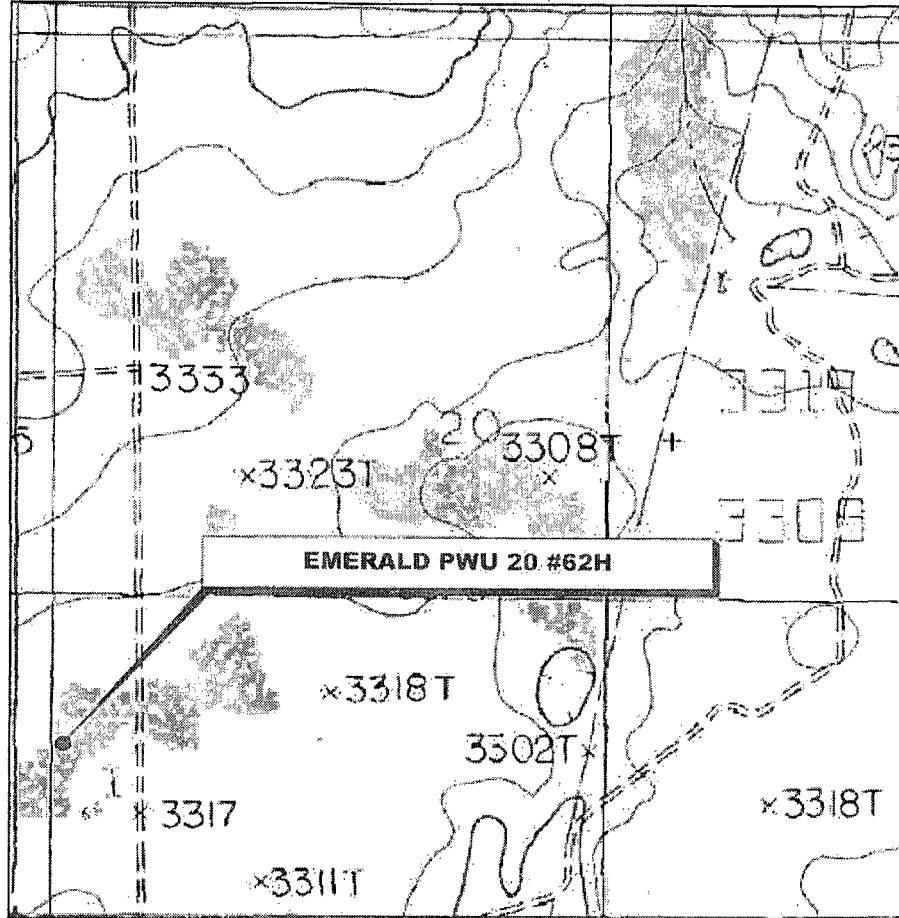
¹⁶ GEODETIC DATA NAD 83 GRID - NM EAST ¹⁷ SURFACE LOCATION N 597558.1 - E 611684.3 LAT: 32.64252748° N LONG: 104.10479159° W ¹⁸ BOTTOM HOLE N 597591.2 - E 616461.6 LAT: 32.64258922° N LONG: 104.08927117° W ¹⁹ DOWN HOLE INFORMATION LANDING & PENETRATION POINT 1239' FSL, 330' FWL ²⁰ LAST PERFORATION 1279' FSL, 330' FEL		²¹ CORNER DATA NAD 83 GRID - NM EAST A: FOUND LIMESTONE ROCK N 596321.1 - E 611438.5 B: FOUND LIMESTONE ROCK 12"x4"x4.5" N 598960.3 - E 611433.1 C: FOUND 1/2" REBAR N 601599.9 - E 611427.2 D: FOUND 1/2" REBAR N 601592.7 - E 614073.1 E: FOUND 1/2" REBAR N 601594.9 - E 616731.0 F: FOUND LIMESTONE ROCK 11"x4.5"x6.5" N 598952.1 - E 616727.9 G: FOUND RAILROAD SPIKE N 596311.3 - E 616734.9 H: FOUND LIMESTONE ROCK 7"x8"x3" N 596312.9 - E 614091.7		²² 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 Date Megan Moravec, Regulatory Analyst Printed Name Megan.Moravec@dvn.com E-mail Address
²³ 248' S.L. LANDING PT ²⁴ PENETRATION POINT ²⁵ TERMINUS (B.H.) ²⁶ LAST PERFORATION		²⁷ 270' ²⁸ 1280'		²⁹ 8-21-2015 Date of Survey ³⁰ 20451 Certificate Number ³¹ REV2: 9-14-2015

Project Area: ☐

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1507381

9/16/2015

LOCATION VERIFICATION MAP



SECTION 20, TWP. 19 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO

OPERATOR: Devon Energy Production
Company, L. P.
LEASE: Emerald PWU 20
WELL NO.: 62H
ELEVATION: 3318'

LOCATION: 1238' FSL & 248' FWL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Illinois Camp, NM (P. E. 1985)

Firm No.: TX 10193838 NM 4655451

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2	9-14-2015	REB
1	9-3-2015	REB
NO.	DATE	PS
JOB NO.: LS1507381		
DWG. NO.: 1507381LVM		

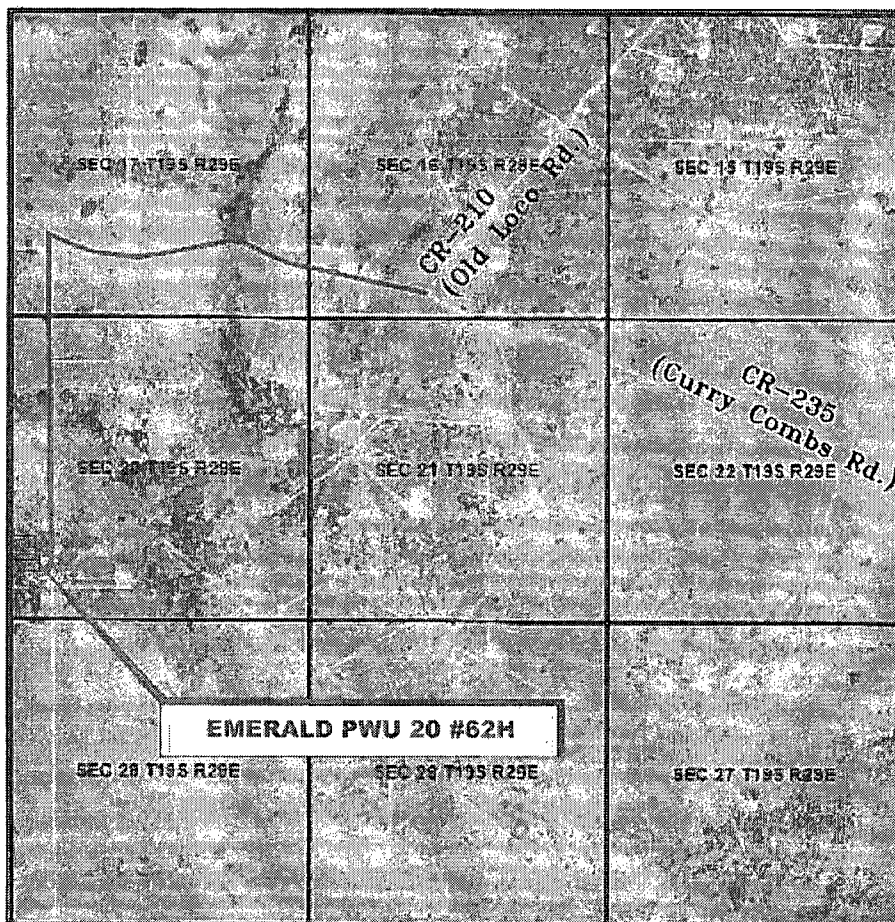
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1"=1000'
DATE: 9-9-2015
SURVEYED BY: BC/CG
DRAWN BY: PDJ
APPROVED BY: REB
SHEET : 1 OF 5

VICINITY MAP

NOT TO SCALE



SECTION 20, TWP. 19 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO

OPERATOR: Devon Energy Production
Company, L. P.

LOCATION: 1238' FSL & 248' FWL
ELEVATION: 3318'

LEASE: Emerald PWU 20

WELL NO.: 62H

Firm No.: TX 10193838 NM 4655451

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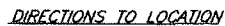
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1	9-3-2015	REB
NO.	DATE	PS
JOB NO.: LS1507381		
DWG. NO.: 1507381VM		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: NTS
DATE: 9-9-2015
SURVEYED BY: BC/CG
DRAWN BY: PDJ
APPROVED BY: REB
SHEET : 2 OF 5

EMERALD PWU 20 #62H
(1238' FSL & 248' FWL)
SECTION 20, T19S, R29E,
N. M. P. M., EDDY COUNTY, NEW MEXICO



Well location is on the left 278 feet.

SCALE: 1" = 100'



BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE GROUND

Firm No.: TX 10193838 NM 4655451

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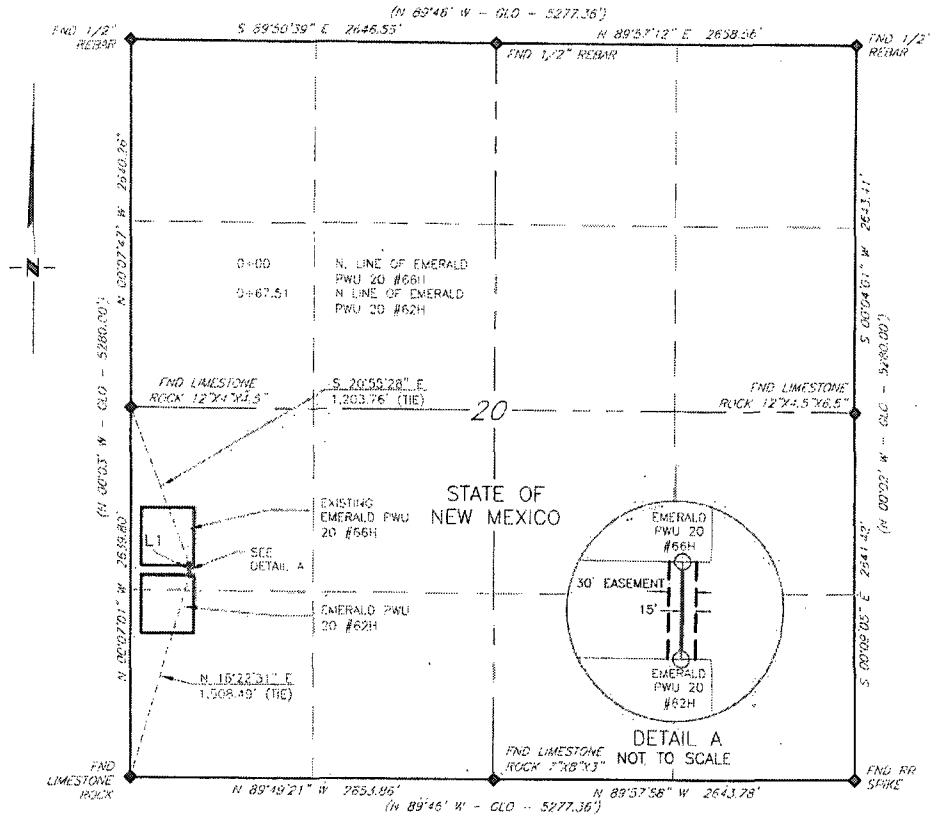
2	9-14-2015	REB
1	9-3-2015	REB
NO.	DATE	PS
JOB NO.: LS1507381		
DWG. NO.: 1507381PAD		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 9-9-2015
SURVEYED BY: BC/CG
DRAWN BY: PDJ
APPROVED BY: REB
SHEET : 3 OF 5

DEVON ENERGY PRODUCTION COMPANY, L. P.
PROPOSED LEASE ROAD
FROM EMERALD PWU 20 #66H
TO EMERALD PWU 20 #62H
SECTION 20, T19S, R29E, NMPM,
EDDY CO., NEW MEXICO



LINE TABLE		
LINE	BEARING	LENGTH
L1	S 00°38'57\"	67.51'

SCALE: 1" = 1000'
0' 500' 1000'

BEARINGS ARE MAG. BY
NM EAST & DISTANCES ARE
HORIZ. GROUND.

LEGEND

- () RECORDED DATA - GLO
- ◆ FOUND MONUMENT AS NOTED
- PROPOSED EASEMENT

I, Richard E. Brooks, a New Mexico Professional Surveyor, do hereby certify that the plat shown hereon accurately depicts the conditions on the ground at the time of the survey; that all work was done under my direct supervision and meets the State of New Mexico minimum standards for land surveying to the best of my knowledge.

Richard E. Brooks NM PS 20451



Firm No.: TX 10193839 NM 455451

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2	9-14-2015	REB
NO.	DATE	PS
JOB NO.:	LS1507381	
DWG. NO.:	1507381RD1	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 9-9-2015
SURVEYED BY: BC/CG
DRAWN BY: PDJ
APPROVED BY: REB
SHEET: 4 OF 5

DEVON ENERGY PRODUCTION COMPANY, L. P.
PROPOSED LEASE ROAD
FROM EMERALD PWU 20 #66H
TO EMERALD PWU 20 #62H
SECTION 20, T19S, R29E, NMPM,
EDDY CO., NEW MEXICO

ROAD DESCRIPTION

A strip of land 30 feet in width, being 67.51 feet or 4.092 rods in length lying within the Southwest Quarter of Section 20, Township 19 South, Range 29 East, N.M.P.M., Eddy County, State of New Mexico, being 15 feet on each side of the centerline described herein, with the sidelines being shortened or extended to intersect the South Line of Emerald PWU 20 #66H and North Line of the Emerald PWU 20 #62H, across State of New Mexico land and being more particularly described as follows:

Beginning at a point on the South Line of Emerald PWU 20 #66H which bears S 20°55'28" E, a distance of 1,203.76 feet from the West Quarter Corner of Section 20, a Limestone Rock 12"x4"x4.5";

Thence S 00°38'57" E, a distance of 67.51 feet to the intersection of the North Line of the Emerald PWU 20 #62H, and the Point of Terminus which bears N 16°22'31" E, a distance of 1,508.49 feet from the Southwest Corner of Section 20, a Limestone Rock.

Said strip of land contains 0.060 acres, more or less, and is allocated by Quarter-Quarter (forties) as follows:

NW $\frac{1}{4}$ SW $\frac{1}{4}$ 4.092 Rods 0.046 Acres+-

Firm No.: TX 10193838 NM 4655451

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			SCALE: NA
			DATE: 9-9-2015
			SURVEYED BY: BC/CG
			DRAWN BY: PDJ
2	9-14-2015	REB	APPROVED BY: REB
NO.	DATE	PS	SHEET : 5 OF 5
JOB NO.: LS1507381			
DWG. NO.: 1507381LEG			

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SEP 16 2015

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Emerald PWU 20 62H
Eddy Co, NM



Plan Data for Emerald PWU 20 62H

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft									
Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	597558.10	611684.30	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	597558.10	611684.30	0.00	0.00
4900.00	5.00	299.00	4899.37	10.57	-19.07	597568.67	611665.23	-19.09	1.00
5400.00	5.00	299.00	5397.46	31.70	-57.18	597589.80	611627.12	-57.24	0.00
5900.00	0.00	0.00	5896.83	42.27	-76.25	597600.37	611608.05	-76.33	1.00
8393.21	0.00	0.00	8390.04	42.27	-76.25	597600.37	611608.05	-76.33	0.00
9293.21	90.00	90.10	8963.00	41.27	496.70	597599.37	612181.00	496.63	10.00
13555.28	90.00	90.10	8963.00	33.83	4758.76	597591.93	616443.06	4758.69	0.00

Plan Data for Emerald PWU 20 62H

Target Set Information:
Name: Emerald PWU 20 62H Tgt
Position offsets from Slot centre
Name TVD Elevation +N/-S +E/-W Northing Easting
(USft) (USft)(USft) (USft) (USft) (USft)
LP Tgt 8963.00 -5620.00 42.36 80.70 597600.46 611765.00
PBHL 62H 8963.00 -5620.00 33.83 4758.76 597591.93 616443.06

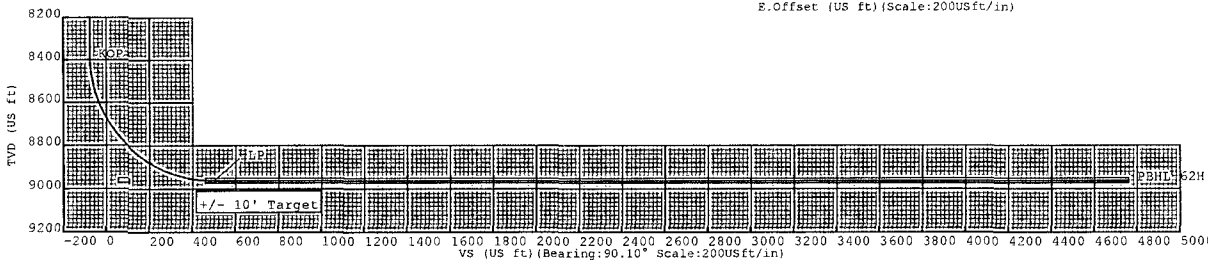
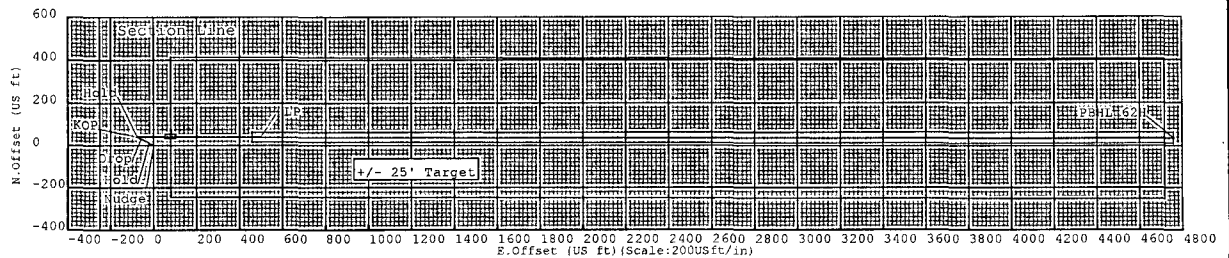
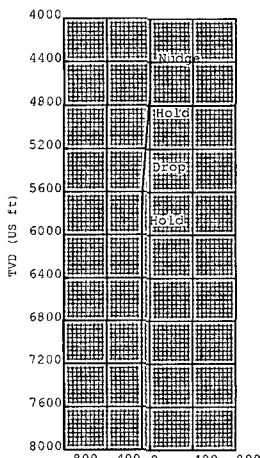
Plan Data for Emerald PWU 20 62H

Well: Emerald PWU 20 62H
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: 90.05°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2015 48396(nT) 7.53° 60.41° 2015-11-01

Plan Data for Emerald PWU 20 62H

Slot: Emerald PWU 20 62H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 597558.10USft Latitude: 32.642528°
+E/-W: 0.00USft Easting: 611684.30USft Longitude: -104.104792°
Elevation Above VRD: 3318.00USft

Emerald PWU 20 62H



SEP 16 2015

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devon

5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*

Site Name: *Emerald PWU 20 62H*

Well Name: *Emerald PWU 20 62H*

Plan: *P1:V1*

4 September 2015




Weatherford

Emerald PWU 20 62H

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: Emerald PWU 20 62H	Units: US ft	North Reference: Grid	Convergence Angle: 0.12	
	Position:	Northing: 597558.10US ft	Latitude: 32° 38' 33.10"	
	Easting: 611684.30US ft	Longitude: -104° 6' 17.25"		
	Elevation above MSL: 3318.00 US ft			
	Comment:			
Slot: Emerald PWU 20 62H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 597558.10US ft	Latitude: 32°38'33.10"	
	+E/-W: 0.00US ft	Easting: 611684.30US ft	Longitude: -104°6'17.25"	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3318.00US ft			
	Comment:			
Well: Emerald PWU 20 62H	Type: Main well	UWI:	Plan: P1:V1	
	File Number:	Comment:		
	Closure Distance: 4758.88US ft	Closure Azimuth: 89.59°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00US ft	+E/-W: 0.00US ft	Az: 90.10°	
	Magnetic Parameters:			
Model: bggm2015	Field Strength: 48396.0nT	Declination: 7.53°	Dip: 60.41°	Date: 01/Nov/2015

Drill floor: Plan: P1:V1			
Rig Height (Kelly Bushing): 25.00us ft	Elevation above MSL: 3343.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Target Set: Emerald PWU 20 62H Tgt Comment:							
Target Name:	Shape:	TVD (US-ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP Tgt	Cuboid	8963.00	42.36	80.70	597600.46	611765.00	
PBHL 62H	Cuboid	8963.00	33.83	4758.76	597591.93	616443.06	

Wellpath created using minimum curvature.

Up Point:					
MD: 0.00USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00USFt	North Offset: 0.00USFt	East Offset: 0.00USFt

5D Plan Report

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 (%/100US ft)	B. Rate (%/100US ft)	T. Rate (%/100US 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	
4400.00	0.00	0.00	4400.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	Nudge
4900.00	5.00	299.00	4899.37	10.57	-19.07	-19.09	1.00	1.00	0.00	299.00	Hold
5400.00	5.00	299.00	5397.46	31.70	-57.18	-57.24	0.00	0.00	0.00	0.00	Drop
5900.00	0.00	0.00	5896.83	42.27	-76.25	-76.33	1.00	-1.00	0.00	180.00	Hold
8393.21	0.00	0.00	8390.04	42.27	-76.25	-76.33	0.00	0.00	0.00	0.00	KOP
9293.21	90.00	90.10	8963.00	41.27	496.70	496.63	10.00	10.00	0.00	90.10	LP
13555.28	90.00	90.10	8963.00	33.83	4758.76	4758.69	0.00	0.00	0.00	0.00	PBHL 62H

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 (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
100.00	0.00	0.00	100.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
200.00	0.00	0.00	200.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
300.00	0.00	0.00	300.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
400.00	0.00	0.00	400.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
500.00	0.00	0.00	500.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
600.00	0.00	0.00	600.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
700.00	0.00	0.00	700.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
800.00	0.00	0.00	800.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
900.00	0.00	0.00	900.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1000.00	0.00	0.00	1000.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1100.00	0.00	0.00	1100.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1200.00	0.00	0.00	1200.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1300.00	0.00	0.00	1300.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1400.00	0.00	0.00	1400.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1500.00	0.00	0.00	1500.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1600.00	0.00	0.00	1600.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1700.00	0.00	0.00	1700.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1800.00	0.00	0.00	1800.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
1900.00	0.00	0.00	1900.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2100.00	0.00	0.00	2100.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2200.00	0.00	0.00	2200.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2300.00	0.00	0.00	2300.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2400.00	0.00	0.00	2400.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2500.00	0.00	0.00	2500.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2600.00	0.00	0.00	2600.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2700.00	0.00	0.00	2700.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2800.00	0.00	0.00	2800.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
2900.00	0.00	0.00	2900.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3000.00	0.00	0.00	3000.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3100.00	0.00	0.00	3100.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3200.00	0.00	0.00	3200.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3300.00	0.00	0.00	3300.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3400.00	0.00	0.00	3400.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3500.00	0.00	0.00	3500.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3600.00	0.00	0.00	3600.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3700.00	0.00	0.00	3700.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3800.00	0.00	0.00	3800.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
3900.00	0.00	0.00	3900.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
4000.00	0.00	0.00	4000.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
4100.00	0.00	0.00	4100.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
4200.00	0.00	0.00	4200.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
4300.00	0.00	0.00	4300.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
4400.00	0.00	0.00	4400.00	0.00	0.00	-0.00	0.00	597558.10	611684.30	
4500.00	1.00	299.00	4499.99	0.42	-0.76	-0.76	1.00	597558.52	611683.54	Nudge
4600.00	2.00	299.00	4599.96	1.69	-3.05	-3.06	1.00	597559.79	611681.25	

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 (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4700.00	3.00	299.00	4699.86	3.81	-6.87	-6.87	1.00	597561.91	611677.43	
4800.00	4.00	299.00	4799.68	6.77	-12.21	-12.22	1.00	597564.87	611672.09	
4900.00	5.00	299.00	4899.37	10.57	-19.07	-19.09	1.00	597568.67	611665.23	Hold
5000.00	5.00	299.00	4998.99	14.80	-26.69	-26.72	0.00	597572.90	611657.61	
5100.00	5.00	299.00	5098.60	19.02	-34.31	-34.35	0.00	597577.12	611649.99	
5200.00	5.00	299.00	5198.22	23.25	-41.94	-41.98	0.00	597581.35	611642.36	
5300.00	5.00	299.00	5297.84	27.47	-49.56	-49.61	0.00	597585.57	611634.74	
5400.00	5.00	299.00	5397.46	31.70	-57.18	-57.24	0.00	597589.80	611627.12	Drop
5500.00	4.00	299.00	5497.15	35.50	-64.05	-64.11	1.00	597593.60	611620.25	
5600.00	3.00	299.00	5596.97	38.46	-69.38	-69.45	1.00	597596.56	611614.92	
5700.00	2.00	299.00	5696.87	40.58	-73.20	-73.27	1.00	597598.68	611611.10	
5800.00	1.00	299.00	5796.83	41.84	-75.49	-75.56	1.00	597599.94	611608.81	
5900.00	0.00	0.00	5896.83	42.27	-76.25	-76.33	1.00	597600.37	611608.05	Hold
6000.00	0.00	0.00	5996.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6100.00	0.00	0.00	6096.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6200.00	0.00	0.00	6196.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6300.00	0.00	0.00	6296.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6400.00	0.00	0.00	6396.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6500.00	0.00	0.00	6496.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6600.00	0.00	0.00	6596.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6700.00	0.00	0.00	6696.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6800.00	0.00	0.00	6796.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
6900.00	0.00	0.00	6896.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7000.00	0.00	0.00	6996.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7100.00	0.00	0.00	7096.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7200.00	0.00	0.00	7196.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7300.00	0.00	0.00	7296.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7400.00	0.00	0.00	7396.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7500.00	0.00	0.00	7496.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7600.00	0.00	0.00	7596.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7700.00	0.00	0.00	7696.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7800.00	0.00	0.00	7796.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
7900.00	0.00	0.00	7896.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
8000.00	0.00	0.00	7996.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
8100.00	0.00	0.00	8096.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
8200.00	0.00	0.00	8196.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
8300.00	0.00	0.00	8296.83	42.27	-76.25	-76.33	0.00	597600.37	611608.05	
8393.21	0.00	0.00	8390.04	42.27	-76.25	-76.33	0.00	597600.37	611608.05	KOP
8400.00	0.68	90.10	8396.83	42.27	-76.21	-76.29	10.00	597600.37	611608.09	
8500.00	10.68	90.10	8496.21	42.25	-66.33	-66.40	10.00	597600.35	611617.97	
8600.00	20.68	90.10	8592.37	42.20	-39.34	-39.41	10.00	597600.30	611644.96	
8700.00	30.68	90.10	8682.38	42.13	3.94	3.86	10.00	597600.23	611688.24	
8800.00	40.68	90.10	8763.50	42.03	62.19	62.11	10.00	597600.13	611746.49	
8900.00	50.68	90.10	8833.28	41.90	133.64	133.57	10.00	597600.00	611817.94	
9000.00	60.68	90.10	8889.60	41.76	216.12	216.05	10.00	597599.86	611900.42	
9100.00	70.68	90.10	8930.73	41.60	307.13	307.06	10.00	597599.70	611991.43	
9200.00	80.68	90.10	8955.43	41.43	403.90	403.83	10.00	597599.53	612088.20	
9293.21	90.00	90.10	8963.00	41.27	496.70	496.63	10.00	597599.37	612181.00	LP
9300.00	90.00	90.10	8963.00	41.26	503.49	503.42	0.00	597599.36	612187.79	
9400.00	90.00	90.10	8963.00	41.08	603.49	603.42	0.00	597599.18	612287.79	
9500.00	90.00	90.10	8963.00	40.91	703.49	703.42	0.00	597599.01	612387.79	
9600.00	90.00	90.10	8963.00	40.73	803.49	803.42	0.00	597598.83	612487.79	
9700.00	90.00	90.10	8963.00	40.56	903.49	903.42	0.00	597598.66	612587.79	
9800.00	90.00	90.10	8963.00	40.38	1003.49	1003.42	0.00	597598.48	612687.79	
9900.00	90.00	90.10	8963.00	40.21	1103.49	1103.42	0.00	597598.31	612787.79	
10000.00	90.00	90.10	8963.00	40.03	1203.49	1203.42	0.00	597598.13	612887.79	
10100.00	90.00	90.10	8963.00	39.86	1303.49	1303.42	0.00	597597.96	612987.79	
10200.00	90.00	90.10	8963.00	39.69	1403.49	1403.42	0.00	597597.79	613087.79	
10300.00	90.00	90.10	8963.00	39.51	1503.49	1503.42	0.00	597597.61	613187.79	

5D Plan Report

Interpolated Points (Relative to Slot centre) (TVD relative to Kelly Bushing)										
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10400.00	90.00	90.10	8963.00	39.34	1603.49	1603.42	0.00	597597.44	613287.79	
10500.00	90.00	90.10	8963.00	39.16	1703.49	1703.42	0.00	597597.26	613387.79	
10600.00	90.00	90.10	8963.00	38.99	1803.49	1803.42	0.00	597597.09	613487.79	
10700.00	90.00	90.10	8963.00	38.81	1903.49	1903.42	0.00	597596.91	613587.79	
10800.00	90.00	90.10	8963.00	38.64	2003.49	2003.42	0.00	597596.74	613687.79	
10900.00	90.00	90.10	8963.00	38.46	2103.49	2103.42	0.00	597596.56	613787.79	
11000.00	90.00	90.10	8963.00	38.29	2203.49	2203.42	0.00	597596.39	613887.79	
11100.00	90.00	90.10	8963.00	38.11	2303.49	2303.42	0.00	597596.21	613987.79	
11200.00	90.00	90.10	8963.00	37.94	2403.49	2403.42	0.00	597596.04	614087.79	
11300.00	90.00	90.10	8963.00	37.77	2503.49	2503.42	0.00	597595.87	614187.79	
11400.00	90.00	90.10	8963.00	37.59	2603.49	2603.42	0.00	597595.69	614287.79	
11500.00	90.00	90.10	8963.00	37.42	2703.49	2703.42	0.00	597595.52	614387.79	
11600.00	90.00	90.10	8963.00	37.24	2803.49	2803.42	0.00	597595.34	614487.79	
11700.00	90.00	90.10	8963.00	37.07	2903.49	2903.42	0.00	597595.17	614587.79	
11800.00	90.00	90.10	8963.00	36.89	3003.49	3003.42	0.00	597594.99	614687.79	
11900.00	90.00	90.10	8963.00	36.72	3103.49	3103.42	0.00	597594.82	614787.79	
12000.00	90.00	90.10	8963.00	36.54	3203.49	3203.42	0.00	597594.64	614887.79	
12100.00	90.00	90.10	8963.00	36.37	3303.49	3303.42	0.00	597594.47	614987.79	
12200.00	90.00	90.10	8963.00	36.20	3403.49	3403.42	0.00	597594.30	615087.79	
12300.00	90.00	90.10	8963.00	36.02	3503.49	3503.42	0.00	597594.12	615187.79	
12400.00	90.00	90.10	8963.00	35.85	3603.49	3603.42	0.00	597593.95	615287.79	
12500.00	90.00	90.10	8963.00	35.67	3703.49	3703.42	0.00	597593.77	615387.79	
12600.00	90.00	90.10	8963.00	35.50	3803.49	3803.42	0.00	597593.60	615487.79	
12700.00	90.00	90.10	8963.00	35.32	3903.49	3903.42	0.00	597593.42	615587.79	
12800.00	90.00	90.10	8963.00	35.15	4003.49	4003.42	0.00	597593.25	615687.79	
12900.00	90.00	90.10	8963.00	34.97	4103.49	4103.42	0.00	597593.07	615787.79	
13000.00	90.00	90.10	8963.00	34.80	4203.49	4203.42	0.00	597592.90	615887.79	
13100.00	90.00	90.10	8963.00	34.62	4303.49	4303.42	0.00	597592.72	615987.79	
13200.00	90.00	90.10	8963.00	34.45	4403.49	4403.42	0.00	597592.55	616087.79	
13300.00	90.00	90.10	8963.00	34.28	4503.49	4503.42	0.00	597592.38	616187.79	
13400.00	90.00	90.10	8963.00	34.10	4603.49	4603.42	0.00	597592.20	616287.79	
13500.00	90.00	90.10	8963.00	33.93	4703.48	4703.42	0.00	597592.03	616387.78	
13555.27	90.00	90.10	8963.00	33.83	4758.76	4758.69	0.00	597591.93	616443.06	PBHL 62H



Weatherford

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: September 04, 2015
Job Number: _____
Customer: Devon Energy
Well Name: Emerald PWU 20 62H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM Nad83 NME
Block: _____
Engineer: _____

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: 597558.1 US Survey Foot	Latitude: 32.642528 Degree
East: 611684.3 US Survey Foot	Longitude: -104.104792 Degree
Convergence: 0.12°	
Declination: 7.53°	
Total Correction: 7.41°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 38' 33.10" N
Longitude = 104° 06' 17.25" W

Magnetic Declination = 7.53 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6550
Local Field Strength = 48396 nT	Magnetic Vector X = 23689 nT
Magnetic Dip = 60.41 deg	Magnetic Vector Y = 3131 nT
Magnetic Model = bggm2015.dat	Magnetic Vector Z = 42086 nT
Run Date = November 01, 2015	Magnetic Vector H = 23895 nT

Signed: _____ Date: _____