PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: LaSalle 25G-212

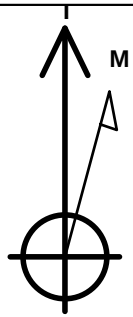
Surface Location: LaSalle 25F-HZ Pad Sec.25-T5N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4640.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1380173.65	3245133.02	40.373640	-104.620170	

RKB - 15' WELL @ 4655.0ft (RKB - 15')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 2030'FNL, 500'FEL	6731.0	-659.0	4561.3	Point



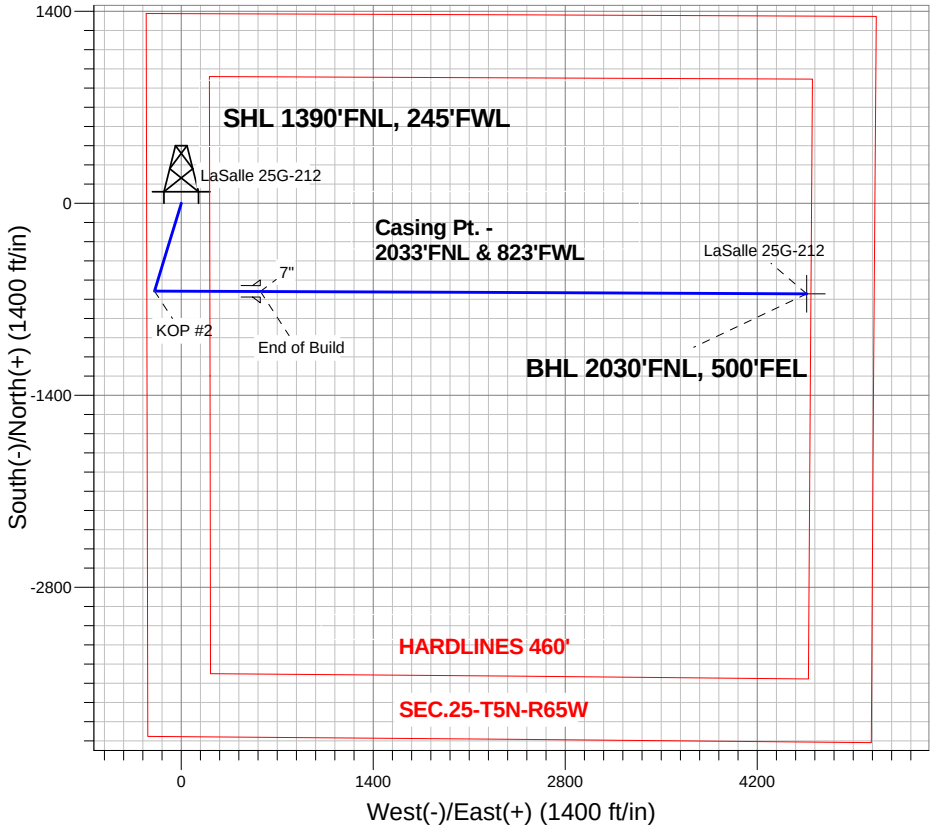
Azimuths to True North
Magnetic North: 8.56°

Magnetic Field
Strength: 52955.3snT
Dip Angle: 66.99°
Date: 2/25/2013
Model: IGRF2010

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP #1
6011.6	6060.9	KOP #2
6775.5	7269.5	End of Build

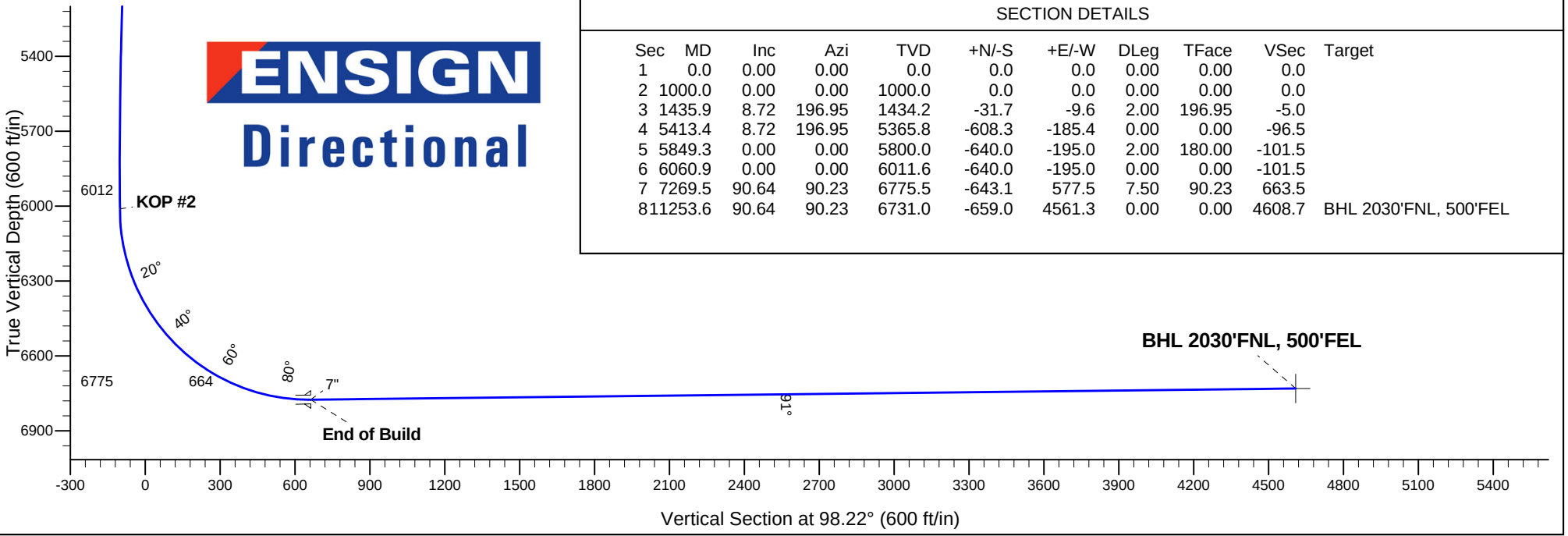
LaSalle 25F-HZ Pad Sec.25-T5N-R65W
LaSalle 25G-212
Plan #1 (2-25-13)



ENSIGN Directional

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1435.9	8.72	196.95	1434.2	-31.7	-9.6	2.00	196.95	-5.0	
4	5413.4	8.72	196.95	5365.8	-608.3	-185.4	0.00	0.00	-96.5	
5	5849.3	0.00	0.00	5800.0	-640.0	-195.0	2.00	180.00	-101.5	
6	6060.9	0.00	0.00	6011.6	-640.0	-195.0	0.00	0.00	-101.5	
7	7269.5	90.64	90.23	6775.5	-643.1	577.5	7.50	90.23	663.5	
8	11253.6	90.64	90.23	6731.0	-659.0	4561.3	0.00	0.00	4608.7	BHL 2030'FNL, 500'FEL



ENSIGN Directional

PETROLEUM DEVELOPMENT CORP Weld County CO

SEC.25-T5N-R65W
LaSalle 25F-HZ Pad Sec.25-T5N-R65W
LaSalle 25G-212

Wellbore #1

Plan: Plan #1 (2-25-13)

Standard Planning Report

01 March, 2013

PDC ENERGY
Growing E&P Value

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Project SEC.25-T5N-R65W, Weld County, Colorado

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site LaSalle 25F-HZ Pad Sec.25-T5N-R65W

Site Position:		**Northing:**	1,380,231.95 ft	**Latitude:**	40.373800
From:	Lat/Long	**Easting:**	3,245,132.45 ft	**Longitude:**	-104.620170
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.57 °

Well LaSalle 25G-212

Well Position	**+N/-S**	-58.3 ft	**Northing:**	1,380,173.65 ft	**Latitude:**	40.373640
	+E/-W	0.0 ft	**Easting:**	3,245,133.02 ft	**Longitude:**	-104.620170
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,640.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/25/2013	8.56	66.99	52,955

Design Plan #1 (2-25-13)

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	98.22

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,435.9	8.72	196.95	1,434.2	-31.7	-9.6	2.00	2.00	0.00	196.95	
5,413.4	8.72	196.95	5,365.8	-608.3	-185.4	0.00	0.00	0.00	0.00	
5,849.3	0.00	0.00	5,800.0	-640.0	-195.0	2.00	-2.00	0.00	180.00	
6,060.9	0.00	0.00	6,011.6	-640.0	-195.0	0.00	0.00	0.00	0.00	
7,269.5	90.64	90.23	6,775.5	-643.1	577.5	7.50	7.50	0.00	90.23	
11,253.6	90.64	90.23	6,731.0	-659.0	4,561.3	0.00	0.00	0.00	0.00	BHL 2030'FNL, 500

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
1,040.0	0.80	196.95	1,040.0	-0.3	-0.1	0.0	2.00	2.00	0.00
1,080.0	1.60	196.95	1,080.0	-1.1	-0.3	-0.2	2.00	2.00	0.00
1,120.0	2.40	196.95	1,120.0	-2.4	-0.7	-0.4	2.00	2.00	0.00
1,160.0	3.20	196.95	1,159.9	-4.3	-1.3	-0.7	2.00	2.00	0.00
1,200.0	4.00	196.95	1,199.8	-6.7	-2.0	-1.1	2.00	2.00	0.00
1,240.0	4.80	196.95	1,239.7	-9.6	-2.9	-1.5	2.00	2.00	0.00
1,280.0	5.60	196.95	1,279.6	-13.1	-4.0	-2.1	2.00	2.00	0.00
1,320.0	6.40	196.95	1,319.3	-17.1	-5.2	-2.7	2.00	2.00	0.00
1,360.0	7.20	196.95	1,359.1	-21.6	-6.6	-3.4	2.00	2.00	0.00
1,400.0	8.00	196.95	1,398.7	-26.7	-8.1	-4.2	2.00	2.00	0.00
1,435.9	8.72	196.95	1,434.2	-31.7	-9.6	-5.0	2.00	2.00	0.00
1,440.0	8.72	196.95	1,438.3	-32.3	-9.8	-5.1	0.00	0.00	0.00
1,480.0	8.72	196.95	1,477.8	-38.1	-11.6	-6.0	0.00	0.00	0.00
1,520.0	8.72	196.95	1,517.3	-43.9	-13.4	-7.0	0.00	0.00	0.00
1,560.0	8.72	196.95	1,556.9	-49.7	-15.1	-7.9	0.00	0.00	0.00
1,600.0	8.72	196.95	1,596.4	-55.5	-16.9	-8.8	0.00	0.00	0.00
1,640.0	8.72	196.95	1,636.0	-61.3	-18.7	-9.7	0.00	0.00	0.00
1,680.0	8.72	196.95	1,675.5	-67.1	-20.4	-10.6	0.00	0.00	0.00
1,720.0	8.72	196.95	1,715.0	-72.9	-22.2	-11.6	0.00	0.00	0.00
1,760.0	8.72	196.95	1,754.6	-78.7	-24.0	-12.5	0.00	0.00	0.00
1,800.0	8.72	196.95	1,794.1	-84.5	-25.7	-13.4	0.00	0.00	0.00
1,840.0	8.72	196.95	1,833.7	-90.2	-27.5	-14.3	0.00	0.00	0.00
1,880.0	8.72	196.95	1,873.2	-96.0	-29.3	-15.2	0.00	0.00	0.00
1,920.0	8.72	196.95	1,912.7	-101.8	-31.0	-16.2	0.00	0.00	0.00
1,960.0	8.72	196.95	1,952.3	-107.6	-32.8	-17.1	0.00	0.00	0.00
2,000.0	8.72	196.95	1,991.8	-113.4	-34.6	-18.0	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,040.0	8.72	196.95	2,031.3	-119.2	-36.3	-18.9	0.00	0.00	0.00
2,080.0	8.72	196.95	2,070.9	-125.0	-38.1	-19.8	0.00	0.00	0.00
2,120.0	8.72	196.95	2,110.4	-130.8	-39.9	-20.7	0.00	0.00	0.00
2,160.0	8.72	196.95	2,150.0	-136.6	-41.6	-21.7	0.00	0.00	0.00
2,200.0	8.72	196.95	2,189.5	-142.4	-43.4	-22.6	0.00	0.00	0.00
2,240.0	8.72	196.95	2,229.0	-148.2	-45.2	-23.5	0.00	0.00	0.00
2,280.0	8.72	196.95	2,268.6	-154.0	-46.9	-24.4	0.00	0.00	0.00
2,320.0	8.72	196.95	2,308.1	-159.8	-48.7	-25.3	0.00	0.00	0.00
2,360.0	8.72	196.95	2,347.6	-165.6	-50.5	-26.3	0.00	0.00	0.00
2,400.0	8.72	196.95	2,387.2	-171.4	-52.2	-27.2	0.00	0.00	0.00
2,440.0	8.72	196.95	2,426.7	-177.2	-54.0	-28.1	0.00	0.00	0.00
2,480.0	8.72	196.95	2,466.3	-183.0	-55.8	-29.0	0.00	0.00	0.00
2,520.0	8.72	196.95	2,505.8	-188.8	-57.5	-29.9	0.00	0.00	0.00
2,560.0	8.72	196.95	2,545.3	-194.6	-59.3	-30.9	0.00	0.00	0.00
2,600.0	8.72	196.95	2,584.9	-200.4	-61.1	-31.8	0.00	0.00	0.00
2,640.0	8.72	196.95	2,624.4	-206.2	-62.8	-32.7	0.00	0.00	0.00
2,680.0	8.72	196.95	2,663.9	-212.0	-64.6	-33.6	0.00	0.00	0.00
2,720.0	8.72	196.95	2,703.5	-217.8	-66.4	-34.5	0.00	0.00	0.00
2,760.0	8.72	196.95	2,743.0	-223.6	-68.1	-35.5	0.00	0.00	0.00
2,800.0	8.72	196.95	2,782.6	-229.4	-69.9	-36.4	0.00	0.00	0.00
2,840.0	8.72	196.95	2,822.1	-235.2	-71.7	-37.3	0.00	0.00	0.00
2,880.0	8.72	196.95	2,861.6	-241.0	-73.4	-38.2	0.00	0.00	0.00
2,920.0	8.72	196.95	2,901.2	-246.8	-75.2	-39.1	0.00	0.00	0.00
2,960.0	8.72	196.95	2,940.7	-252.6	-77.0	-40.1	0.00	0.00	0.00
3,000.0	8.72	196.95	2,980.3	-258.4	-78.7	-41.0	0.00	0.00	0.00
3,040.0	8.72	196.95	3,019.8	-264.2	-80.5	-41.9	0.00	0.00	0.00
3,080.0	8.72	196.95	3,059.3	-270.0	-82.3	-42.8	0.00	0.00	0.00
3,120.0	8.72	196.95	3,098.9	-275.8	-84.0	-43.7	0.00	0.00	0.00
3,160.0	8.72	196.95	3,138.4	-281.6	-85.8	-44.7	0.00	0.00	0.00
3,200.0	8.72	196.95	3,177.9	-287.4	-87.6	-45.6	0.00	0.00	0.00
3,240.0	8.72	196.95	3,217.5	-293.2	-89.3	-46.5	0.00	0.00	0.00
3,280.0	8.72	196.95	3,257.0	-299.0	-91.1	-47.4	0.00	0.00	0.00
3,320.0	8.72	196.95	3,296.6	-304.8	-92.9	-48.3	0.00	0.00	0.00
3,360.0	8.72	196.95	3,336.1	-310.6	-94.6	-49.3	0.00	0.00	0.00
3,400.0	8.72	196.95	3,375.6	-316.4	-96.4	-50.2	0.00	0.00	0.00
3,440.0	8.72	196.95	3,415.2	-322.2	-98.2	-51.1	0.00	0.00	0.00
3,480.0	8.72	196.95	3,454.7	-328.0	-99.9	-52.0	0.00	0.00	0.00
3,520.0	8.72	196.95	3,494.2	-333.8	-101.7	-52.9	0.00	0.00	0.00
3,560.0	8.72	196.95	3,533.8	-339.6	-103.5	-53.9	0.00	0.00	0.00
3,600.0	8.72	196.95	3,573.3	-345.4	-105.2	-54.8	0.00	0.00	0.00
3,640.0	8.72	196.95	3,612.9	-351.2	-107.0	-55.7	0.00	0.00	0.00
3,680.0	8.72	196.95	3,652.4	-357.0	-108.8	-56.6	0.00	0.00	0.00
3,720.0	8.72	196.95	3,691.9	-362.8	-110.5	-57.5	0.00	0.00	0.00
3,760.0	8.72	196.95	3,731.5	-368.6	-112.3	-58.5	0.00	0.00	0.00
3,800.0	8.72	196.95	3,771.0	-374.4	-114.1	-59.4	0.00	0.00	0.00
3,840.0	8.72	196.95	3,810.5	-380.2	-115.8	-60.3	0.00	0.00	0.00
3,880.0	8.72	196.95	3,850.1	-386.0	-117.6	-61.2	0.00	0.00	0.00
3,920.0	8.72	196.95	3,889.6	-391.8	-119.4	-62.1	0.00	0.00	0.00
3,960.0	8.72	196.95	3,929.2	-397.6	-121.1	-63.1	0.00	0.00	0.00
4,000.0	8.72	196.95	3,968.7	-403.4	-122.9	-64.0	0.00	0.00	0.00
4,040.0	8.72	196.95	4,008.2	-409.2	-124.7	-64.9	0.00	0.00	0.00
4,080.0	8.72	196.95	4,047.8	-415.0	-126.4	-65.8	0.00	0.00	0.00
4,120.0	8.72	196.95	4,087.3	-420.8	-128.2	-66.7	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,160.0	8.72	196.95	4,126.8	-426.6	-130.0	-67.6	0.00	0.00	0.00
4,200.0	8.72	196.95	4,166.4	-432.4	-131.8	-68.6	0.00	0.00	0.00
4,240.0	8.72	196.95	4,205.9	-438.2	-133.5	-69.5	0.00	0.00	0.00
4,280.0	8.72	196.95	4,245.5	-444.0	-135.3	-70.4	0.00	0.00	0.00
4,320.0	8.72	196.95	4,285.0	-449.8	-137.1	-71.3	0.00	0.00	0.00
4,360.0	8.72	196.95	4,324.5	-455.6	-138.8	-72.2	0.00	0.00	0.00
4,400.0	8.72	196.95	4,364.1	-461.4	-140.6	-73.2	0.00	0.00	0.00
4,440.0	8.72	196.95	4,403.6	-467.2	-142.4	-74.1	0.00	0.00	0.00
4,480.0	8.72	196.95	4,443.2	-473.0	-144.1	-75.0	0.00	0.00	0.00
4,520.0	8.72	196.95	4,482.7	-478.8	-145.9	-75.9	0.00	0.00	0.00
4,560.0	8.72	196.95	4,522.2	-484.6	-147.7	-76.8	0.00	0.00	0.00
4,600.0	8.72	196.95	4,561.8	-490.4	-149.4	-77.8	0.00	0.00	0.00
4,640.0	8.72	196.95	4,601.3	-496.2	-151.2	-78.7	0.00	0.00	0.00
4,680.0	8.72	196.95	4,640.8	-502.0	-153.0	-79.6	0.00	0.00	0.00
4,720.0	8.72	196.95	4,680.4	-507.8	-154.7	-80.5	0.00	0.00	0.00
4,760.0	8.72	196.95	4,719.9	-513.6	-156.5	-81.4	0.00	0.00	0.00
4,800.0	8.72	196.95	4,759.5	-519.4	-158.3	-82.4	0.00	0.00	0.00
4,840.0	8.72	196.95	4,799.0	-525.2	-160.0	-83.3	0.00	0.00	0.00
4,880.0	8.72	196.95	4,838.5	-531.0	-161.8	-84.2	0.00	0.00	0.00
4,920.0	8.72	196.95	4,878.1	-536.8	-163.6	-85.1	0.00	0.00	0.00
4,960.0	8.72	196.95	4,917.6	-542.6	-165.3	-86.0	0.00	0.00	0.00
5,000.0	8.72	196.95	4,957.1	-548.4	-167.1	-87.0	0.00	0.00	0.00
5,040.0	8.72	196.95	4,996.7	-554.2	-168.9	-87.9	0.00	0.00	0.00
5,080.0	8.72	196.95	5,036.2	-560.0	-170.6	-88.8	0.00	0.00	0.00
5,120.0	8.72	196.95	5,075.8	-565.8	-172.4	-89.7	0.00	0.00	0.00
5,160.0	8.72	196.95	5,115.3	-571.6	-174.2	-90.6	0.00	0.00	0.00
5,200.0	8.72	196.95	5,154.8	-577.4	-175.9	-91.6	0.00	0.00	0.00
5,240.0	8.72	196.95	5,194.4	-583.2	-177.7	-92.5	0.00	0.00	0.00
5,280.0	8.72	196.95	5,233.9	-589.0	-179.5	-93.4	0.00	0.00	0.00
5,320.0	8.72	196.95	5,273.4	-594.8	-181.2	-94.3	0.00	0.00	0.00
5,360.0	8.72	196.95	5,313.0	-600.6	-183.0	-95.2	0.00	0.00	0.00
5,400.0	8.72	196.95	5,352.5	-606.4	-184.8	-96.2	0.00	0.00	0.00
5,413.4	8.72	196.95	5,365.8	-608.3	-185.4	-96.5	0.00	0.00	0.00
5,440.0	8.19	196.95	5,392.1	-612.1	-186.5	-97.1	2.00	-2.00	0.00
5,480.0	7.39	196.95	5,431.7	-617.3	-188.1	-97.9	2.00	-2.00	0.00
5,520.0	6.59	196.95	5,471.4	-621.9	-189.5	-98.6	2.00	-2.00	0.00
5,560.0	5.79	196.95	5,511.2	-626.0	-190.7	-99.3	2.00	-2.00	0.00
5,600.0	4.99	196.95	5,551.0	-629.6	-191.8	-99.8	2.00	-2.00	0.00
5,640.0	4.19	196.95	5,590.9	-632.7	-192.8	-100.3	2.00	-2.00	0.00
5,680.0	3.39	196.95	5,630.8	-635.2	-193.5	-100.7	2.00	-2.00	0.00
5,720.0	2.59	196.95	5,670.7	-637.2	-194.1	-101.0	2.00	-2.00	0.00
5,760.0	1.79	196.95	5,710.7	-638.7	-194.6	-101.3	2.00	-2.00	0.00
5,800.0	0.99	196.95	5,750.7	-639.6	-194.9	-101.4	2.00	-2.00	0.00
5,840.0	0.19	196.95	5,790.7	-640.0	-195.0	-101.5	2.00	-2.00	0.00
5,849.3	0.00	0.00	5,800.0	-640.0	-195.0	-101.5	2.00	-2.00	0.00
5,880.0	0.00	0.00	5,830.7	-640.0	-195.0	-101.5	0.00	0.00	0.00
5,920.0	0.00	0.00	5,870.7	-640.0	-195.0	-101.5	0.00	0.00	0.00
5,960.0	0.00	0.00	5,910.7	-640.0	-195.0	-101.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,950.7	-640.0	-195.0	-101.5	0.00	0.00	0.00
6,040.0	0.00	0.00	5,990.7	-640.0	-195.0	-101.5	0.00	0.00	0.00
6,060.9	0.00	0.00	6,011.6	-640.0	-195.0	-101.5	0.00	0.00	0.00
KOP #2									
6,080.0	1.43	90.23	6,030.7	-640.0	-194.8	-101.2	7.49	7.49	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,120.0	4.43	90.23	6,070.6	-640.0	-192.7	-99.2	7.50	7.50	0.00
6,160.0	7.43	90.23	6,110.4	-640.0	-188.6	-95.1	7.50	7.50	0.00
6,200.0	10.43	90.23	6,149.9	-640.1	-182.4	-89.0	7.50	7.50	0.00
6,240.0	13.43	90.23	6,189.1	-640.1	-174.1	-80.8	7.50	7.50	0.00
6,280.0	16.43	90.23	6,227.7	-640.1	-163.8	-70.6	7.50	7.50	0.00
6,320.0	19.43	90.23	6,265.8	-640.2	-151.5	-58.4	7.50	7.50	0.00
6,360.0	22.43	90.23	6,303.1	-640.2	-137.2	-44.2	7.50	7.50	0.00
6,400.0	25.43	90.23	6,339.7	-640.3	-121.0	-28.2	7.50	7.50	0.00
6,440.0	28.43	90.23	6,375.3	-640.4	-102.9	-10.2	7.50	7.50	0.00
6,480.0	31.43	90.23	6,410.0	-640.4	-82.9	9.5	7.50	7.50	0.00
6,520.0	34.43	90.23	6,443.6	-640.5	-61.2	31.1	7.50	7.50	0.00
6,560.0	37.43	90.23	6,475.9	-640.6	-37.7	54.3	7.50	7.50	0.00
6,600.0	40.43	90.23	6,507.0	-640.7	-12.6	79.2	7.50	7.50	0.00
6,640.0	43.43	90.23	6,536.8	-640.8	14.2	105.7	7.50	7.50	0.00
6,680.0	46.43	90.23	6,565.1	-640.9	42.4	133.6	7.50	7.50	0.00
6,720.0	49.43	90.23	6,591.9	-641.1	72.1	163.0	7.50	7.50	0.00
6,760.0	52.43	90.23	6,617.1	-641.2	103.2	193.8	7.50	7.50	0.00
6,800.0	55.43	90.23	6,640.7	-641.3	135.5	225.8	7.50	7.50	0.00
6,840.0	58.43	90.23	6,662.5	-641.5	169.0	259.0	7.50	7.50	0.00
6,880.0	61.43	90.23	6,682.5	-641.6	203.6	293.3	7.50	7.50	0.00
6,920.0	64.43	90.23	6,700.7	-641.7	239.2	328.5	7.50	7.50	0.00
6,960.0	67.43	90.23	6,717.0	-641.9	275.7	364.7	7.50	7.50	0.00
7,000.0	70.43	90.23	6,731.4	-642.0	313.1	401.6	7.50	7.50	0.00
7,040.0	73.43	90.23	6,743.8	-642.2	351.1	439.3	7.50	7.50	0.00
7,080.0	76.43	90.23	6,754.2	-642.3	389.7	477.5	7.50	7.50	0.00
7,120.0	79.43	90.23	6,762.6	-642.5	428.8	516.3	7.50	7.50	0.00
7,160.0	82.43	90.23	6,768.9	-642.6	468.3	555.4	7.50	7.50	0.00
7,200.0	85.43	90.23	6,773.1	-642.8	508.1	594.8	7.50	7.50	0.00
7,240.0	88.43	90.23	6,775.3	-643.0	548.0	634.3	7.50	7.50	0.00
7,269.5	90.64	90.23	6,775.5	-643.1	577.5	663.5	7.49	7.49	0.00
End of Build - 7"									
7,280.0	90.64	90.23	6,775.4	-643.1	588.0	673.9	0.00	0.00	0.00
7,320.0	90.64	90.23	6,774.9	-643.3	628.0	713.5	0.00	0.00	0.00
7,360.0	90.64	90.23	6,774.5	-643.4	668.0	753.2	0.00	0.00	0.00
7,400.0	90.64	90.23	6,774.0	-643.6	708.0	792.8	0.00	0.00	0.00
7,440.0	90.64	90.23	6,773.6	-643.8	748.0	832.4	0.00	0.00	0.00
7,480.0	90.64	90.23	6,773.2	-643.9	788.0	872.0	0.00	0.00	0.00
7,520.0	90.64	90.23	6,772.7	-644.1	828.0	911.6	0.00	0.00	0.00
7,560.0	90.64	90.23	6,772.3	-644.2	868.0	951.2	0.00	0.00	0.00
7,600.0	90.64	90.23	6,771.8	-644.4	908.0	990.8	0.00	0.00	0.00
7,640.0	90.64	90.23	6,771.4	-644.6	948.0	1,030.4	0.00	0.00	0.00
7,680.0	90.64	90.23	6,770.9	-644.7	988.0	1,070.0	0.00	0.00	0.00
7,720.0	90.64	90.23	6,770.5	-644.9	1,028.0	1,109.6	0.00	0.00	0.00
7,760.0	90.64	90.23	6,770.0	-645.0	1,068.0	1,149.2	0.00	0.00	0.00
7,800.0	90.64	90.23	6,769.6	-645.2	1,108.0	1,188.9	0.00	0.00	0.00
7,840.0	90.64	90.23	6,769.1	-645.4	1,148.0	1,228.5	0.00	0.00	0.00
7,880.0	90.64	90.23	6,768.7	-645.5	1,188.0	1,268.1	0.00	0.00	0.00
7,920.0	90.64	90.23	6,768.2	-645.7	1,228.0	1,307.7	0.00	0.00	0.00
7,960.0	90.64	90.23	6,767.8	-645.8	1,268.0	1,347.3	0.00	0.00	0.00
8,000.0	90.64	90.23	6,767.3	-646.0	1,308.0	1,386.9	0.00	0.00	0.00
8,040.0	90.64	90.23	6,766.9	-646.2	1,348.0	1,426.5	0.00	0.00	0.00
8,080.0	90.64	90.23	6,766.4	-646.3	1,388.0	1,466.1	0.00	0.00	0.00
8,120.0	90.64	90.23	6,766.0	-646.5	1,428.0	1,505.7	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,160.0	90.64	90.23	6,765.6	-646.6	1,468.0	1,545.3	0.00	0.00	0.00
8,200.0	90.64	90.23	6,765.1	-646.8	1,508.0	1,584.9	0.00	0.00	0.00
8,240.0	90.64	90.23	6,764.7	-647.0	1,548.0	1,624.6	0.00	0.00	0.00
8,280.0	90.64	90.23	6,764.2	-647.1	1,588.0	1,664.2	0.00	0.00	0.00
8,320.0	90.64	90.23	6,763.8	-647.3	1,627.9	1,703.8	0.00	0.00	0.00
8,360.0	90.64	90.23	6,763.3	-647.4	1,667.9	1,743.4	0.00	0.00	0.00
8,400.0	90.64	90.23	6,762.9	-647.6	1,707.9	1,783.0	0.00	0.00	0.00
8,440.0	90.64	90.23	6,762.4	-647.7	1,747.9	1,822.6	0.00	0.00	0.00
8,480.0	90.64	90.23	6,762.0	-647.9	1,787.9	1,862.2	0.00	0.00	0.00
8,520.0	90.64	90.23	6,761.5	-648.1	1,827.9	1,901.8	0.00	0.00	0.00
8,560.0	90.64	90.23	6,761.1	-648.2	1,867.9	1,941.4	0.00	0.00	0.00
8,600.0	90.64	90.23	6,760.6	-648.4	1,907.9	1,981.0	0.00	0.00	0.00
8,640.0	90.64	90.23	6,760.2	-648.5	1,947.9	2,020.6	0.00	0.00	0.00
8,680.0	90.64	90.23	6,759.7	-648.7	1,987.9	2,060.3	0.00	0.00	0.00
8,720.0	90.64	90.23	6,759.3	-648.9	2,027.9	2,099.9	0.00	0.00	0.00
8,760.0	90.64	90.23	6,758.9	-649.0	2,067.9	2,139.5	0.00	0.00	0.00
8,800.0	90.64	90.23	6,758.4	-649.2	2,107.9	2,179.1	0.00	0.00	0.00
8,840.0	90.64	90.23	6,758.0	-649.3	2,147.9	2,218.7	0.00	0.00	0.00
8,880.0	90.64	90.23	6,757.5	-649.5	2,187.9	2,258.3	0.00	0.00	0.00
8,920.0	90.64	90.23	6,757.1	-649.7	2,227.9	2,297.9	0.00	0.00	0.00
8,960.0	90.64	90.23	6,756.6	-649.8	2,267.9	2,337.5	0.00	0.00	0.00
9,000.0	90.64	90.23	6,756.2	-650.0	2,307.9	2,377.1	0.00	0.00	0.00
9,040.0	90.64	90.23	6,755.7	-650.1	2,347.9	2,416.7	0.00	0.00	0.00
9,080.0	90.64	90.23	6,755.3	-650.3	2,387.9	2,456.3	0.00	0.00	0.00
9,120.0	90.64	90.23	6,754.8	-650.5	2,427.9	2,496.0	0.00	0.00	0.00
9,160.0	90.64	90.23	6,754.4	-650.6	2,467.9	2,535.6	0.00	0.00	0.00
9,200.0	90.64	90.23	6,753.9	-650.8	2,507.9	2,575.2	0.00	0.00	0.00
9,240.0	90.64	90.23	6,753.5	-650.9	2,547.9	2,614.8	0.00	0.00	0.00
9,280.0	90.64	90.23	6,753.0	-651.1	2,587.9	2,654.4	0.00	0.00	0.00
9,320.0	90.64	90.23	6,752.6	-651.3	2,627.9	2,694.0	0.00	0.00	0.00
9,360.0	90.64	90.23	6,752.2	-651.4	2,667.9	2,733.6	0.00	0.00	0.00
9,400.0	90.64	90.23	6,751.7	-651.6	2,707.9	2,773.2	0.00	0.00	0.00
9,440.0	90.64	90.23	6,751.3	-651.7	2,747.9	2,812.8	0.00	0.00	0.00
9,480.0	90.64	90.23	6,750.8	-651.9	2,787.9	2,852.4	0.00	0.00	0.00
9,520.0	90.64	90.23	6,750.4	-652.1	2,827.9	2,892.0	0.00	0.00	0.00
9,560.0	90.64	90.23	6,749.9	-652.2	2,867.9	2,931.6	0.00	0.00	0.00
9,600.0	90.64	90.23	6,749.5	-652.4	2,907.9	2,971.3	0.00	0.00	0.00
9,640.0	90.64	90.23	6,749.0	-652.5	2,947.9	3,010.9	0.00	0.00	0.00
9,680.0	90.64	90.23	6,748.6	-652.7	2,987.9	3,050.5	0.00	0.00	0.00
9,720.0	90.64	90.23	6,748.1	-652.9	3,027.8	3,090.1	0.00	0.00	0.00
9,760.0	90.64	90.23	6,747.7	-653.0	3,067.8	3,129.7	0.00	0.00	0.00
9,800.0	90.64	90.23	6,747.2	-653.2	3,107.8	3,169.3	0.00	0.00	0.00
9,840.0	90.64	90.23	6,746.8	-653.3	3,147.8	3,208.9	0.00	0.00	0.00
9,880.0	90.64	90.23	6,746.3	-653.5	3,187.8	3,248.5	0.00	0.00	0.00
9,920.0	90.64	90.23	6,745.9	-653.7	3,227.8	3,288.1	0.00	0.00	0.00
9,960.0	90.64	90.23	6,745.4	-653.8	3,267.8	3,327.7	0.00	0.00	0.00
10,000.0	90.64	90.23	6,745.0	-654.0	3,307.8	3,367.3	0.00	0.00	0.00
10,040.0	90.64	90.23	6,744.6	-654.1	3,347.8	3,407.0	0.00	0.00	0.00
10,080.0	90.64	90.23	6,744.1	-654.3	3,387.8	3,446.6	0.00	0.00	0.00
10,120.0	90.64	90.23	6,743.7	-654.4	3,427.8	3,486.2	0.00	0.00	0.00
10,160.0	90.64	90.23	6,743.2	-654.6	3,467.8	3,525.8	0.00	0.00	0.00
10,200.0	90.64	90.23	6,742.8	-654.8	3,507.8	3,565.4	0.00	0.00	0.00
10,240.0	90.64	90.23	6,742.3	-654.9	3,547.8	3,605.0	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Project:	SEC.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**North Reference:**	True
Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,280.0	90.64	90.23	6,741.9	-655.1	3,587.8	3,644.6	0.00	0.00	0.00
10,320.0	90.64	90.23	6,741.4	-655.2	3,627.8	3,684.2	0.00	0.00	0.00
10,360.0	90.64	90.23	6,741.0	-655.4	3,667.8	3,723.8	0.00	0.00	0.00
10,400.0	90.64	90.23	6,740.5	-655.6	3,707.8	3,763.4	0.00	0.00	0.00
10,440.0	90.64	90.23	6,740.1	-655.7	3,747.8	3,803.0	0.00	0.00	0.00
10,480.0	90.64	90.23	6,739.6	-655.9	3,787.8	3,842.7	0.00	0.00	0.00
10,520.0	90.64	90.23	6,739.2	-656.0	3,827.8	3,882.3	0.00	0.00	0.00
10,560.0	90.64	90.23	6,738.7	-656.2	3,867.8	3,921.9	0.00	0.00	0.00
10,600.0	90.64	90.23	6,738.3	-656.4	3,907.8	3,961.5	0.00	0.00	0.00
10,640.0	90.64	90.23	6,737.9	-656.5	3,947.8	4,001.1	0.00	0.00	0.00
10,680.0	90.64	90.23	6,737.4	-656.7	3,987.8	4,040.7	0.00	0.00	0.00
10,720.0	90.64	90.23	6,737.0	-656.8	4,027.8	4,080.3	0.00	0.00	0.00
10,760.0	90.64	90.23	6,736.5	-657.0	4,067.8	4,119.9	0.00	0.00	0.00
10,800.0	90.64	90.23	6,736.1	-657.2	4,107.8	4,159.5	0.00	0.00	0.00
10,840.0	90.64	90.23	6,735.6	-657.3	4,147.8	4,199.1	0.00	0.00	0.00
10,880.0	90.64	90.23	6,735.2	-657.5	4,187.8	4,238.7	0.00	0.00	0.00
10,920.0	90.64	90.23	6,734.7	-657.6	4,227.8	4,278.4	0.00	0.00	0.00
10,960.0	90.64	90.23	6,734.3	-657.8	4,267.8	4,318.0	0.00	0.00	0.00
11,000.0	90.64	90.23	6,733.8	-658.0	4,307.8	4,357.6	0.00	0.00	0.00
11,040.0	90.64	90.23	6,733.4	-658.1	4,347.8	4,397.2	0.00	0.00	0.00
11,080.0	90.64	90.23	6,732.9	-658.3	4,387.8	4,436.8	0.00	0.00	0.00
11,120.0	90.64	90.23	6,732.5	-658.4	4,427.8	4,476.4	0.00	0.00	0.00
11,160.0	90.64	90.23	6,732.0	-658.6	4,467.7	4,516.0	0.00	0.00	0.00
11,200.0	90.64	90.23	6,731.6	-658.8	4,507.7	4,555.6	0.00	0.00	0.00
11,240.0	90.64	90.23	6,731.2	-658.9	4,547.7	4,595.2	0.00	0.00	0.00
11,253.6	90.64	90.23	6,731.0	-659.0	4,561.3	4,608.7	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,269.5	6,775.5	7"	7	8-3/4

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,000.0	1,000.0	0.0	0.0	KOP #1
6,060.9	6,011.6	-640.0	-195.0	KOP #2
7,269.5	6,775.5	-643.1	577.5	End of Build

ENSIGN Directional

PETROLEUM DEVELOPMENT CORP Weld County CO

SEC.25-T5N-R65W
LaSalle 25F-HZ Pad Sec.25-T5N-R65W
LaSalle 25G-212

Wellbore #1
Plan #1 (2-25-13)

Anticollision Report

01 March, 2013

PDC ENERGY
Growing E&P Value

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (2-25-13)

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 2/28/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,253.6	Plan #1 (2-25-13) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
LaSalle 25F-HZ Pad Sec.25-T5N-R65W						
LaSalle 25F-332 - Wellbore #1 - Plan #1 (2-25-13)	1,000.0	1,000.0	29.1	24.9	6.826	CC, ES
LaSalle 25F-332 - Wellbore #1 - Plan #1 (2-25-13)	11,253.6	11,319.4	490.2	233.1	1.907	SF
LaSalle 25G-402 - Wellbore #1 - Plan #1 (2-25-13)	200.0	200.0	32.8	32.1	48.619	CC, ES
LaSalle 25G-402 - Wellbore #1 - Plan #1 (2-25-13)	11,253.6	11,466.4	434.8	199.4	1.847	SF

Offset Design LaSalle 25F-HZ Pad Sec.25-T5N-R65W - LaSalle 25F-332 - Wellbore #1 - Plan #1 (2-25-13) **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	0.00	29.1	0.0	29.1				
100.0	100.0	100.0	100.0	0.1	0.1	0.00	29.1	0.0	29.1	28.9	0.22	129.686	
200.0	200.0	200.0	200.0	0.3	0.3	0.00	29.1	0.0	29.1	28.5	0.67	43.229	
300.0	300.0	300.0	300.0	0.6	0.6	0.00	29.1	0.0	29.1	28.0	1.12	25.937	
400.0	400.0	400.0	400.0	0.8	0.8	0.00	29.1	0.0	29.1	27.6	1.57	18.527	
500.0	500.0	500.0	500.0	1.0	1.0	0.00	29.1	0.0	29.1	27.1	2.02	14.410	
600.0	600.0	600.0	600.0	1.2	1.2	0.00	29.1	0.0	29.1	26.7	2.47	11.790	
700.0	700.0	700.0	700.0	1.5	1.5	0.00	29.1	0.0	29.1	26.2	2.92	9.976	
800.0	800.0	800.0	800.0	1.7	1.7	0.00	29.1	0.0	29.1	25.8	3.37	8.646	
900.0	900.0	900.0	900.0	1.9	1.9	0.00	29.1	0.0	29.1	25.3	3.82	7.629	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.00	29.1	0.0	29.1	24.9	4.27	6.826	CC, ES
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.4	163.99	29.1	0.0	30.8	26.1	4.69	6.569	
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	166.27	29.1	0.0	35.9	30.8	5.09	7.051	
1,300.0	1,299.5	1,299.5	1,299.5	2.7	2.8	168.91	29.1	0.0	44.4	38.9	5.49	8.088	
1,400.0	1,398.7	1,398.7	1,398.7	2.9	3.0	171.25	29.1	0.0	56.4	50.5	5.89	9.577	
1,500.0	1,497.6	1,497.6	1,497.6	3.2	3.3	173.07	29.1	0.0	71.2	64.9	6.30	11.296	
1,600.0	1,596.4	1,596.4	1,596.4	3.4	3.5	174.28	29.1	0.0	86.3	79.5	6.73	12.820	
1,700.0	1,695.3	1,695.3	1,695.3	3.7	3.7	175.14	29.1	0.0	101.4	94.2	7.16	14.156	
1,800.0	1,794.1	1,794.1	1,794.1	4.0	3.9	175.77	29.1	0.0	116.5	108.9	7.60	15.332	
1,900.0	1,893.0	1,893.0	1,893.0	4.3	4.1	176.26	29.1	0.0	131.6	123.6	8.04	16.374	
2,000.0	1,991.8	1,991.8	1,991.8	4.7	4.4	176.64	29.1	0.0	146.7	138.2	8.48	17.301	
2,100.0	2,090.6	2,090.6	2,090.6	5.0	4.6	176.96	29.1	0.0	161.9	152.9	8.93	18.132	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Offset Design LaSalle 25F-HZ Pad Sec.25-T5N-R65W - LaSalle 25F-332 - Wellbore #1 - Plan #1 (2-25-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
2,200.0	2,189.5	2,189.5	2,189.5	5.3	4.8	177.22	29.1	0.0	177.0	167.6	9.38	18.879	
2,300.0	2,288.3	2,288.3	2,288.3	5.7	5.0	177.44	29.1	0.0	192.1	182.3	9.83	19.554	
2,400.0	2,387.2	2,387.2	2,387.2	6.0	5.3	177.62	29.1	0.0	207.3	197.0	10.28	20.167	
2,500.0	2,486.0	2,486.0	2,486.0	6.3	5.5	177.79	29.1	0.0	222.4	211.7	10.73	20.725	
2,600.0	2,584.9	2,584.9	2,584.9	6.7	5.7	177.93	29.1	0.0	237.6	226.4	11.19	21.236	
2,700.0	2,683.7	2,683.7	2,683.7	7.0	5.9	178.05	29.1	0.0	252.7	241.1	11.64	21.705	
2,800.0	2,782.6	2,782.6	2,782.6	7.4	6.1	178.16	29.1	0.0	267.9	255.8	12.10	22.136	
2,900.0	2,881.4	2,881.4	2,881.4	7.7	6.4	178.26	29.1	0.0	283.0	270.5	12.56	22.534	
3,000.0	2,980.3	2,980.3	2,980.3	8.1	6.6	178.35	29.1	0.0	298.2	285.1	13.02	22.903	
3,100.0	3,079.1	3,087.2	3,087.2	8.4	6.8	178.31	28.2	-1.0	312.3	298.8	13.48	23.175	
3,200.0	3,177.9	3,197.0	3,196.9	8.8	7.0	177.89	24.5	-4.9	323.2	309.3	13.91	23.233	
3,300.0	3,276.8	3,307.3	3,306.7	9.2	7.2	177.12	17.8	-11.9	331.0	316.6	14.36	23.052	
3,400.0	3,375.6	3,408.5	3,407.3	9.5	7.4	176.21	10.0	-20.2	336.7	321.9	14.80	22.759	
3,500.0	3,474.5	3,508.2	3,506.4	9.9	7.6	175.35	2.3	-28.3	342.5	327.3	15.24	22.479	
3,600.0	3,573.3	3,607.9	3,605.4	10.2	7.8	174.51	-5.4	-36.4	348.4	332.7	15.69	22.211	
3,700.0	3,672.2	3,707.6	3,704.5	10.6	8.0	173.70	-13.1	-44.5	354.3	338.2	16.14	21.953	
3,800.0	3,771.0	3,807.3	3,803.6	11.0	8.3	172.92	-20.8	-52.7	360.4	343.8	16.60	21.706	
3,900.0	3,869.9	3,907.0	3,902.6	11.3	8.5	172.17	-28.5	-60.8	366.4	349.4	17.07	21.468	
4,000.0	3,968.7	4,006.7	4,001.7	11.7	8.7	171.44	-36.2	-68.9	372.6	355.0	17.54	21.239	
4,100.0	4,067.5	4,106.4	4,100.8	12.1	9.0	170.73	-44.0	-77.1	378.8	360.8	18.02	21.019	
4,200.0	4,166.4	4,206.1	4,199.8	12.4	9.2	170.05	-51.7	-85.2	385.0	366.5	18.50	20.807	
4,300.0	4,265.2	4,305.8	4,298.9	12.8	9.4	169.38	-59.4	-93.3	391.4	372.4	18.99	20.604	
4,400.0	4,364.1	4,405.5	4,398.0	13.1	9.7	168.74	-67.1	-101.4	397.7	378.2	19.49	20.407	
4,500.0	4,462.9	4,505.2	4,497.0	13.5	9.9	168.12	-74.8	-109.6	404.1	384.1	19.99	20.218	
4,600.0	4,561.8	4,604.9	4,596.1	13.9	10.2	167.52	-82.5	-117.7	410.6	390.1	20.49	20.036	
4,700.0	4,660.6	4,704.6	4,695.2	14.2	10.5	166.94	-90.2	-125.8	417.1	396.1	21.00	19.861	
4,800.0	4,759.5	4,804.3	4,794.3	14.6	10.7	166.37	-97.9	-133.9	423.6	402.1	21.51	19.691	
4,900.0	4,858.3	4,904.0	4,893.3	15.0	11.0	165.83	-105.6	-142.1	430.2	408.2	22.03	19.528	
5,000.0	4,957.1	5,003.7	4,992.4	15.3	11.3	165.29	-113.3	-150.2	436.8	414.3	22.55	19.370	
5,100.0	5,056.0	5,103.4	5,091.5	15.7	11.5	164.78	-121.1	-158.3	443.5	420.4	23.07	19.218	
5,200.0	5,154.8	5,203.1	5,190.5	16.1	11.8	164.28	-128.8	-166.5	450.1	426.5	23.60	19.071	
5,300.0	5,253.7	5,302.8	5,289.6	16.4	12.1	163.79	-136.5	-174.6	456.9	432.7	24.14	18.930	
5,400.0	5,352.5	5,400.0	5,386.2	16.8	12.4	163.34	-144.0	-182.5	463.6	439.0	24.66	18.799	
5,500.0	5,451.6	5,491.1	5,476.8	17.1	12.6	163.06	-149.9	-188.7	470.5	445.3	25.15	18.704	
5,600.0	5,551.0	5,580.7	5,566.3	17.3	12.8	162.93	-153.7	-192.7	476.2	450.6	25.57	18.620	
5,700.0	5,650.8	5,670.3	5,655.8	17.5	12.9	162.94	-155.6	-194.8	480.7	454.7	25.94	18.528	
5,800.0	5,750.7	5,765.2	5,750.7	17.7	13.1	163.04	-155.9	-195.0	483.7	457.5	26.28	18.409	
5,900.0	5,850.7	5,865.2	5,850.7	17.8	13.3	0.00	-155.9	-195.0	484.1	453.8	30.30	15.979	
6,000.0	5,950.7	5,965.2	5,950.7	17.9	13.5	0.00	-155.9	-195.0	484.1	453.5	30.64	15.803	
6,045.1	5,995.8	6,010.3	5,995.8	18.0	13.6	-90.29	-155.9	-195.0	484.2	457.0	27.19	17.804	
6,100.0	6,050.7	6,065.1	6,050.7	18.1	13.7	-90.35	-155.9	-195.0	484.2	456.7	27.40	17.667	
6,200.0	6,149.9	6,165.1	6,150.6	18.2	13.9	-91.58	-155.9	-193.9	484.3	456.5	27.81	17.414	
6,300.0	6,246.8	6,267.0	6,251.7	18.3	14.1	-93.06	-155.9	-181.6	484.8	456.7	28.14	17.233	
6,400.0	6,339.7	6,370.6	6,351.8	18.3	14.2	-94.50	-156.0	-155.5	485.7	457.3	28.38	17.113	
6,500.0	6,426.9	6,476.0	6,449.2	18.4	14.3	-95.87	-156.2	-115.2	486.7	458.1	28.61	17.011	
6,600.0	6,507.0	6,583.2	6,541.6	18.4	14.4	-97.14	-156.4	-60.9	488.0	459.0	28.95	16.854	
6,700.0	6,578.7	6,692.1	6,626.7	18.5	14.5	-98.29	-156.6	6.9	489.3	459.7	29.58	16.544	
6,800.0	6,640.7	6,802.7	6,702.3	18.6	15.0	-99.29	-157.0	87.3	490.6	459.9	30.69	15.987	
6,900.0	6,691.9	6,914.6	6,766.2	18.9	16.0	-100.11	-157.3	179.1	491.8	459.4	32.49	15.138	
7,000.0	6,731.4	7,027.7	6,816.6	19.5	17.4	-100.74	-157.7	280.2	492.8	457.8	35.07	14.052	
7,100.0	6,758.7	7,141.6	6,851.6	20.7	19.2	-101.17	-158.1	388.5	493.6	455.1	38.42	12.847	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Offset Design LaSalle 25F-HZ Pad Sec.25-T5N-R65W - LaSalle 25F-332 - Wellbore #1 - Plan #1 (2-25-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,200.0	6,773.1	7,256.1	6,870.2	22.4	21.4	-101.38	-158.6	501.4	493.9	451.5	42.41	11.647	
7,300.0	6,775.2	7,366.4	6,872.6	24.3	23.7	-101.38	-159.0	611.6	493.9	447.2	46.73	10.570	
7,400.0	6,774.0	7,466.4	6,870.9	26.4	25.9	-101.31	-159.4	711.6	493.8	442.8	51.05	9.674	
7,500.0	6,772.9	7,566.4	6,869.2	28.7	28.2	-101.24	-159.8	811.5	493.7	438.1	55.57	8.885	
7,600.0	6,771.8	7,666.4	6,867.5	31.0	30.6	-101.18	-160.2	911.5	493.6	433.3	60.26	8.191	
7,700.0	6,770.7	7,766.4	6,865.8	33.4	33.0	-101.11	-160.6	1,011.5	493.5	428.4	65.09	7.582	
7,800.0	6,769.6	7,866.4	6,864.1	35.9	35.5	-101.04	-161.0	1,111.5	493.4	423.4	70.02	7.047	
7,900.0	6,768.5	7,966.4	6,862.3	38.4	38.1	-100.97	-161.3	1,211.5	493.3	418.2	75.03	6.574	
8,000.0	6,767.3	8,066.4	6,860.6	40.9	40.7	-100.91	-161.7	1,311.5	493.2	413.1	80.12	6.155	
8,100.0	6,766.2	8,166.4	6,858.9	43.5	43.3	-100.84	-162.1	1,411.4	493.1	407.8	85.26	5.783	
8,200.0	6,765.1	8,266.4	6,857.2	46.1	45.9	-100.77	-162.5	1,511.4	493.0	402.5	90.46	5.450	
8,300.0	6,764.0	8,366.4	6,855.5	48.8	48.6	-100.70	-162.9	1,611.4	492.9	397.2	95.69	5.151	
8,400.0	6,762.9	8,466.4	6,853.8	51.4	51.2	-100.63	-163.3	1,711.4	492.8	391.8	100.96	4.881	
8,500.0	6,761.8	8,566.4	6,852.1	54.1	53.9	-100.57	-163.7	1,811.4	492.7	386.4	106.26	4.637	
8,600.0	6,760.6	8,666.4	6,850.4	56.8	56.6	-100.50	-164.1	1,911.4	492.6	381.0	111.58	4.414	
8,700.0	6,759.5	8,766.4	6,848.7	59.4	59.3	-100.43	-164.5	2,011.3	492.5	375.5	116.93	4.212	
8,800.0	6,758.4	8,866.4	6,847.0	62.1	62.0	-100.36	-164.9	2,111.3	492.4	370.1	122.29	4.026	
8,900.0	6,757.3	8,966.4	6,845.2	64.9	64.8	-100.29	-165.2	2,211.3	492.3	364.6	127.68	3.856	
9,000.0	6,756.2	9,066.4	6,843.5	67.6	67.5	-100.23	-165.6	2,311.3	492.2	359.1	133.08	3.698	
9,100.0	6,755.1	9,166.4	6,841.8	70.3	70.2	-100.16	-166.0	2,411.3	492.1	353.6	138.49	3.553	
9,200.0	6,753.9	9,266.4	6,840.1	73.0	73.0	-100.09	-166.4	2,511.3	492.0	348.1	143.92	3.418	
9,300.0	6,752.8	9,366.4	6,838.4	75.8	75.7	-100.02	-166.8	2,611.2	491.9	342.5	149.36	3.293	
9,400.0	6,751.7	9,466.4	6,836.7	78.5	78.5	-99.95	-167.2	2,711.2	491.8	337.0	154.81	3.177	
9,500.0	6,750.6	9,566.4	6,835.0	81.3	81.2	-99.88	-167.6	2,811.2	491.7	331.4	160.27	3.068	
9,600.0	6,749.5	9,666.4	6,833.3	84.0	84.0	-99.82	-168.0	2,911.2	491.6	325.9	165.73	2.966	
9,700.0	6,748.4	9,766.4	6,831.6	86.8	86.7	-99.75	-168.4	3,011.2	491.5	320.3	171.21	2.871	
9,800.0	6,747.2	9,866.4	6,829.9	89.5	89.5	-99.68	-168.8	3,111.1	491.4	314.7	176.69	2.781	
9,900.0	6,746.1	9,966.3	6,828.1	92.3	92.3	-99.61	-169.2	3,211.1	491.3	309.1	182.19	2.697	
10,000.0	6,745.0	10,066.3	6,826.4	95.1	95.1	-99.54	-169.5	3,311.1	491.2	303.6	187.68	2.617	
10,100.0	6,743.9	10,166.3	6,824.7	97.8	97.8	-99.47	-169.9	3,411.1	491.1	298.0	193.19	2.542	
10,200.0	6,742.8	10,266.3	6,823.0	100.6	100.6	-99.41	-170.3	3,511.1	491.1	292.4	198.70	2.471	
10,300.0	6,741.7	10,366.3	6,821.3	103.4	103.4	-99.34	-170.7	3,611.1	491.0	286.8	204.21	2.404	
10,400.0	6,740.5	10,466.3	6,819.6	106.1	106.1	-99.27	-171.1	3,711.0	490.9	281.1	209.73	2.341	
10,500.0	6,739.4	10,566.3	6,817.9	108.9	108.9	-99.20	-171.5	3,811.0	490.8	275.5	215.26	2.280	
10,600.0	6,738.3	10,666.3	6,816.2	111.7	111.7	-99.13	-171.9	3,911.0	490.7	269.9	220.79	2.223	
10,700.0	6,737.2	10,766.3	6,814.5	114.5	114.5	-99.06	-172.3	4,011.0	490.6	264.3	226.32	2.168	
10,800.0	6,736.1	10,866.3	6,812.7	117.2	117.3	-98.99	-172.7	4,111.0	490.5	258.7	231.86	2.116	
10,900.0	6,734.9	10,966.3	6,811.0	120.0	120.1	-98.93	-173.1	4,211.0	490.5	253.0	237.40	2.066	
11,000.0	6,733.8	11,066.3	6,809.3	122.8	122.8	-98.86	-173.4	4,310.9	490.4	247.4	242.95	2.018	
11,100.0	6,732.7	11,166.3	6,807.6	125.6	125.6	-98.79	-173.8	4,410.9	490.3	241.8	248.50	1.973	
11,200.0	6,731.6	11,266.3	6,805.9	128.4	128.4	-98.72	-174.2	4,510.9	490.2	236.1	254.05	1.930	
11,251.7	6,731.0	11,318.0	6,805.0	129.8	129.9	-98.68	-174.4	4,562.6	490.2	233.2	256.93	1.908	
11,253.6	6,731.0	11,319.4	6,805.0	129.9	129.9	-98.68	-174.4	4,564.0	490.2	233.1	257.02	1.907	SF

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Offset Design LaSalle 25F-HZ Pad Sec.25-T5N-R65W - LaSalle 25G-402 - Wellbore #1 - Plan #1 (2-25-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-32.8	0.0	32.8				
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-32.8	0.0	32.8	32.6	0.22	145.858	
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-32.8	0.0	32.8	32.1	0.67	48.619	CC, ES
300.0	300.0	298.8	298.8	0.6	0.5	-179.46	-34.5	-0.3	34.5	33.4	1.10	31.344	
400.0	400.0	397.5	397.3	0.8	0.7	-178.11	-39.5	-1.3	39.6	38.0	1.53	25.841	
500.0	500.0	495.6	495.1	1.0	1.0	-176.51	-47.7	-2.9	48.1	46.1	1.98	24.272	
600.0	600.0	593.1	591.8	1.2	1.3	-175.03	-59.2	-5.1	60.0	57.5	2.44	24.558	
700.0	700.0	689.6	687.2	1.5	1.6	-173.82	-73.8	-8.0	75.3	72.4	2.91	25.823	
800.0	800.0	786.2	782.2	1.7	1.9	-172.89	-91.2	-11.4	93.6	90.2	3.40	27.553	
900.0	900.0	884.4	878.5	1.9	2.3	-172.23	-109.6	-15.0	112.7	108.8	3.88	29.069	
1,000.0	1,000.0	982.5	974.9	2.1	2.7	-171.75	-128.0	-18.5	131.7	127.4	4.36	30.233	
1,100.0	1,100.0	1,081.0	1,071.6	2.3	3.1	-8.40	-146.4	-22.1	149.1	144.4	4.72	31.613	
1,200.0	1,199.8	1,180.0	1,168.8	2.5	3.6	-8.33	-165.0	-25.7	163.0	157.9	5.13	31.754	
1,300.0	1,299.5	1,279.5	1,266.4	2.7	4.0	-8.45	-183.6	-29.4	173.6	168.0	5.56	31.197	
1,400.0	1,398.7	1,379.2	1,364.3	2.9	4.4	-8.73	-202.2	-33.0	180.6	174.6	6.00	30.092	
1,500.0	1,497.6	1,479.1	1,462.4	3.2	4.8	-9.13	-221.0	-36.7	185.0	178.5	6.46	28.637	
1,600.0	1,596.4	1,579.0	1,560.4	3.4	5.2	-9.53	-239.7	-40.3	189.1	182.2	6.93	27.290	
1,700.0	1,695.3	1,678.9	1,658.5	3.7	5.7	-9.92	-258.4	-43.9	193.3	185.9	7.41	26.091	
1,800.0	1,794.1	1,778.8	1,756.6	4.0	6.1	-10.29	-277.1	-47.6	197.5	189.6	7.89	25.020	
1,900.0	1,893.0	1,878.7	1,854.6	4.3	6.5	-10.64	-295.8	-51.2	201.6	193.2	8.38	24.057	
2,000.0	1,991.8	1,978.6	1,952.7	4.7	7.0	-10.98	-314.5	-54.9	205.8	196.9	8.87	23.190	
2,100.0	2,090.6	2,078.5	2,050.8	5.0	7.4	-11.31	-333.2	-58.5	210.0	200.6	9.37	22.405	
2,200.0	2,189.5	2,178.4	2,148.9	5.3	7.8	-11.62	-351.9	-62.2	214.2	204.3	9.87	21.692	
2,300.0	2,288.3	2,278.4	2,246.9	5.7	8.2	-11.92	-370.6	-65.8	218.4	208.0	10.38	21.042	
2,400.0	2,387.2	2,378.3	2,345.0	6.0	8.7	-12.21	-389.3	-69.4	222.6	211.7	10.88	20.447	
2,500.0	2,486.0	2,478.2	2,443.1	6.3	9.1	-12.49	-408.0	-73.1	226.8	215.4	11.39	19.901	
2,600.0	2,584.9	2,578.1	2,541.1	6.7	9.5	-12.76	-426.7	-76.7	231.0	219.1	11.91	19.398	
2,700.0	2,683.7	2,678.0	2,639.2	7.0	9.9	-13.02	-445.4	-80.4	235.2	222.8	12.42	18.934	
2,800.0	2,782.6	2,777.9	2,737.3	7.4	10.4	-13.27	-464.1	-84.0	239.4	226.5	12.94	18.504	
2,900.0	2,881.4	2,877.8	2,835.4	7.7	10.8	-13.51	-482.8	-87.7	243.6	230.2	13.46	18.104	
3,000.0	2,980.3	2,977.7	2,933.4	8.1	11.2	-13.74	-501.5	-91.3	247.9	233.9	13.98	17.733	
3,100.0	3,079.1	3,077.6	3,031.5	8.4	11.7	-13.97	-520.2	-95.0	252.1	237.6	14.50	17.386	
3,200.0	3,177.9	3,177.5	3,129.6	8.8	12.1	-14.18	-538.9	-98.6	256.3	241.3	15.02	17.062	
3,300.0	3,276.8	3,277.4	3,227.6	9.2	12.5	-14.39	-557.6	-102.2	260.6	245.0	15.55	16.759	
3,400.0	3,375.6	3,377.3	3,325.7	9.5	13.0	-14.60	-576.3	-105.9	264.8	248.8	16.08	16.474	
3,500.0	3,474.5	3,477.2	3,423.8	9.9	13.4	-14.80	-595.0	-109.5	269.1	252.5	16.60	16.206	
3,600.0	3,573.3	3,577.1	3,521.9	10.2	13.8	-14.99	-613.7	-113.2	273.3	256.2	17.13	15.953	
3,700.0	3,672.2	3,677.0	3,619.9	10.6	14.2	-15.17	-632.4	-116.8	277.6	259.9	17.66	15.715	
3,800.0	3,771.0	3,776.9	3,718.0	11.0	14.7	-15.35	-651.1	-120.5	281.8	263.6	18.19	15.490	
3,900.0	3,869.9	3,876.8	3,816.1	11.3	15.1	-15.53	-669.9	-124.1	286.1	267.4	18.73	15.277	
4,000.0	3,968.7	3,976.7	3,914.1	11.7	15.5	-15.70	-688.6	-127.7	290.4	271.1	19.26	15.075	
4,100.0	4,067.5	4,076.7	4,012.2	12.1	16.0	-15.86	-707.3	-131.4	294.6	274.8	19.80	14.883	
4,200.0	4,166.4	4,176.6	4,110.3	12.4	16.4	-16.02	-726.0	-135.0	298.9	278.6	20.33	14.701	
4,300.0	4,265.2	4,276.5	4,208.4	12.8	16.8	-16.18	-744.7	-138.7	303.2	282.3	20.87	14.528	
4,400.0	4,364.1	4,376.4	4,306.4	13.1	17.2	-16.33	-763.4	-142.3	307.4	286.0	21.40	14.363	
4,500.0	4,462.9	4,476.3	4,404.5	13.5	17.7	-16.47	-782.1	-146.0	311.7	289.8	21.94	14.206	
4,600.0	4,561.8	4,576.2	4,502.6	13.9	18.1	-16.62	-800.8	-149.6	316.0	293.5	22.48	14.055	
4,700.0	4,660.6	4,676.1	4,600.6	14.2	18.5	-16.76	-819.5	-153.3	320.2	297.2	23.02	13.912	
4,800.0	4,759.5	4,776.0	4,698.7	14.6	19.0	-16.89	-838.2	-156.9	324.5	301.0	23.56	13.774	
4,900.0	4,858.3	4,875.9	4,796.8	15.0	19.4	-17.02	-856.9	-160.5	328.8	304.7	24.10	13.643	
5,000.0	4,957.1	4,975.8	4,894.8	15.3	19.8	-17.15	-875.6	-164.2	333.1	308.4	24.64	13.517	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Offset Design LaSalle 25F-HZ Pad Sec.25-T5N-R65W - LaSalle 25G-402 - Wellbore #1 - Plan #1 (2-25-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.0	5,056.0	5,075.7	4,992.9	15.7	20.3	-17.28	-894.3	-167.8	337.4	312.2	25.18	13.396	
5,200.0	5,154.8	5,175.6	5,091.0	16.1	20.7	-17.40	-913.0	-171.5	341.7	315.9	25.73	13.280	
5,300.0	5,253.7	5,275.5	5,189.1	16.4	21.1	-17.52	-931.7	-175.1	345.9	319.7	26.27	13.168	
5,400.0	5,352.5	5,375.4	5,287.1	16.8	21.5	-17.64	-950.4	-178.8	350.2	323.4	26.81	13.061	
5,500.0	5,451.6	5,475.3	5,385.1	17.1	22.0	-17.71	-969.1	-182.4	355.8	328.4	27.32	13.023	
5,600.0	5,551.0	5,579.1	5,487.1	17.3	22.4	-17.65	-988.4	-186.2	364.4	336.7	27.75	13.134	
5,700.0	5,650.8	5,693.1	5,599.6	17.5	22.7	-17.50	-1,006.2	-189.6	373.4	345.4	28.10	13.292	
5,800.0	5,750.7	5,807.5	5,713.2	17.7	23.0	-17.31	-1,019.7	-192.2	381.9	353.5	28.39	13.454	
5,900.0	5,850.7	5,922.4	5,827.7	17.8	23.2	179.85	-1,028.7	-194.0	389.4	349.0	40.35	9.650	
6,000.0	5,950.7	6,037.8	5,943.0	17.9	23.3	179.98	-1,033.2	-194.9	393.3	352.6	40.65	9.674	
6,100.0	6,050.7	6,145.4	6,050.7	18.1	23.4	89.92	-1,033.8	-195.0	393.8	364.4	29.37	13.406	
6,112.0	6,062.6	6,157.4	6,062.6	18.1	23.5	90.02	-1,033.8	-195.0	393.8	364.4	29.39	13.396	
6,200.0	6,149.9	6,244.7	6,149.9	18.2	23.5	91.58	-1,033.8	-195.0	393.9	364.5	29.46	13.372	
6,300.0	6,246.8	6,344.6	6,249.7	18.3	23.6	94.61	-1,033.8	-191.9	395.1	365.7	29.40	13.441	
6,400.0	6,339.7	6,448.1	6,351.9	18.3	23.7	97.70	-1,033.9	-175.7	397.5	368.2	29.37	13.537	
6,500.0	6,426.9	6,554.9	6,454.0	18.4	23.8	100.67	-1,034.0	-144.6	401.0	371.6	29.41	13.633	
6,600.0	6,507.0	6,665.3	6,553.9	18.4	23.8	103.45	-1,034.2	-97.9	405.3	375.7	29.60	13.694	
6,700.0	6,578.7	6,779.3	6,648.9	18.5	23.9	105.99	-1,034.4	-35.1	410.1	380.1	29.99	13.675	
6,800.0	6,640.7	6,896.9	6,736.0	18.6	23.9	108.23	-1,034.7	43.7	415.0	384.3	30.70	13.521	
6,900.0	6,691.9	7,017.8	6,811.9	18.9	24.0	110.11	-1,035.1	137.8	419.7	387.8	31.86	13.174	
7,000.0	6,731.4	7,141.7	6,873.2	19.5	24.3	111.59	-1,035.5	245.2	423.7	390.1	33.61	12.607	
7,100.0	6,758.7	7,268.0	6,917.0	20.7	24.8	112.63	-1,035.9	363.5	426.6	390.6	36.03	11.842	
7,200.0	6,773.1	7,395.8	6,941.0	22.4	25.8	113.20	-1,036.4	488.9	428.3	389.2	39.09	10.958	
7,300.0	6,775.2	7,499.9	6,951.5	24.3	27.1	114.11	-1,036.8	592.5	431.6	389.4	42.15	10.239	
7,400.0	6,774.0	7,615.8	6,954.9	26.4	29.0	114.68	-1,037.3	708.3	433.2	387.0	46.19	9.380	
7,500.0	6,772.9	7,715.8	6,953.9	28.7	30.9	114.69	-1,037.7	808.3	433.3	382.9	50.33	8.608	
7,600.0	6,771.8	7,815.8	6,952.9	31.0	33.0	114.70	-1,038.0	908.3	433.3	378.7	54.64	7.929	
7,700.0	6,770.7	7,915.8	6,951.9	33.4	35.2	114.72	-1,038.4	1,008.3	433.3	374.3	59.09	7.334	
7,800.0	6,769.6	8,015.8	6,950.9	35.9	37.5	114.73	-1,038.8	1,108.3	433.4	369.7	63.64	6.810	
7,900.0	6,768.5	8,115.8	6,949.9	38.4	39.9	114.74	-1,039.2	1,208.3	433.4	365.2	68.27	6.349	
8,000.0	6,767.3	8,215.8	6,948.8	40.9	42.3	114.76	-1,039.6	1,308.3	433.5	360.5	72.97	5.941	
8,100.0	6,766.2	8,315.8	6,947.8	43.5	44.8	114.77	-1,040.0	1,408.2	433.5	355.8	77.72	5.578	
8,200.0	6,765.1	8,415.8	6,946.8	46.1	47.3	114.78	-1,040.4	1,508.2	433.5	351.0	82.52	5.254	
8,300.0	6,764.0	8,515.8	6,945.8	48.8	49.9	114.80	-1,040.8	1,608.2	433.6	346.2	87.35	4.964	
8,400.0	6,762.9	8,615.8	6,944.8	51.4	52.5	114.81	-1,041.2	1,708.2	433.6	341.4	92.22	4.702	
8,500.0	6,761.8	8,715.8	6,943.8	54.1	55.1	114.82	-1,041.6	1,808.2	433.7	336.6	97.11	4.466	
8,600.0	6,760.6	8,815.8	6,942.8	56.8	57.7	114.83	-1,042.0	1,908.2	433.7	331.7	102.02	4.251	
8,700.0	6,759.5	8,915.8	6,941.8	59.4	60.3	114.85	-1,042.4	2,008.2	433.7	326.8	106.96	4.055	
8,800.0	6,758.4	9,015.8	6,940.8	62.1	63.0	114.86	-1,042.8	2,108.2	433.8	321.9	111.91	3.876	
8,900.0	6,757.3	9,115.8	6,939.8	64.9	65.7	114.87	-1,043.2	2,208.2	433.8	316.9	116.87	3.712	
9,000.0	6,756.2	9,215.8	6,938.7	67.6	68.4	114.89	-1,043.6	2,308.2	433.9	312.0	121.85	3.561	
9,100.0	6,755.1	9,315.8	6,937.7	70.3	71.0	114.90	-1,044.0	2,408.2	433.9	307.1	126.84	3.421	
9,200.0	6,753.9	9,415.8	6,936.7	73.0	73.8	114.91	-1,044.3	2,508.2	433.9	302.1	131.84	3.292	
9,300.0	6,752.8	9,515.8	6,935.7	75.8	76.5	114.93	-1,044.7	2,608.2	434.0	297.1	136.84	3.171	
9,400.0	6,751.7	9,615.8	6,934.7	78.5	79.2	114.94	-1,045.1	2,708.2	434.0	292.2	141.86	3.060	
9,500.0	6,750.6	9,715.8	6,933.7	81.3	81.9	114.95	-1,045.5	2,808.2	434.1	287.2	146.87	2.955	
9,600.0	6,749.5	9,815.8	6,932.7	84.0	84.6	114.96	-1,045.9	2,908.2	434.1	282.2	151.90	2.858	
9,700.0	6,748.4	9,915.8	6,931.7	86.8	87.4	114.98	-1,046.3	3,008.2	434.1	277.2	156.93	2.766	
9,800.0	6,747.2	10,015.8	6,930.7	89.5	90.1	114.99	-1,046.7	3,108.1	434.2	272.2	161.97	2.681	
9,900.0	6,746.1	10,115.8	6,929.6	92.3	92.8	115.00	-1,047.1	3,208.1	434.2	267.2	167.01	2.600	
10,000.0	6,745.0	10,215.8	6,928.6	95.1	95.6	115.02	-1,047.5	3,308.1	434.3	262.2	172.05	2.524	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Offset Design LaSalle 25F-HZ Pad Sec.25-T5N-R65W - LaSalle 25G-402 - Wellbore #1 - Plan #1 (2-25-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

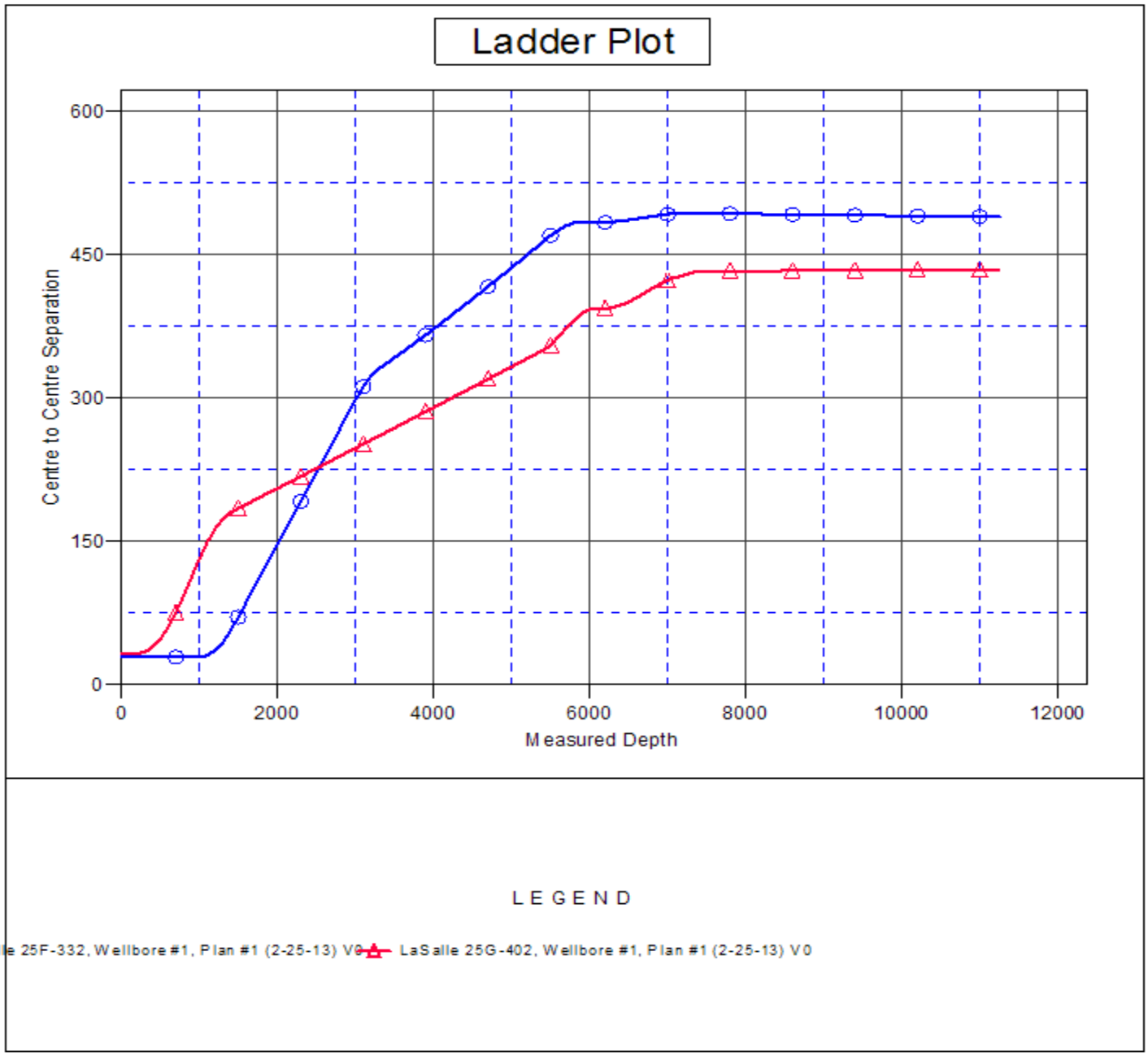
Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.0	6,743.9	10,315.8	6,927.6	97.8	98.3	115.03	-1,047.9	3,408.1	434.3	257.2	177.09	2.452	
10,200.0	6,742.8	10,415.8	6,926.6	100.6	101.1	115.04	-1,048.3	3,508.1	434.3	252.2	182.14	2.385	
10,300.0	6,741.7	10,515.8	6,925.6	103.4	103.8	115.06	-1,048.7	3,608.1	434.4	247.2	187.19	2.321	
10,400.0	6,740.5	10,615.8	6,924.6	106.1	106.6	115.07	-1,049.1	3,708.1	434.4	242.2	192.25	2.260	
10,500.0	6,739.4	10,715.8	6,923.6	108.9	109.4	115.08	-1,049.5	3,808.1	434.5	237.2	197.30	2.202	
10,600.0	6,738.3	10,815.8	6,922.6	111.7	112.1	115.09	-1,049.9	3,908.1	434.5	232.1	202.36	2.147	
10,700.0	6,737.2	10,915.8	6,921.6	114.5	114.9	115.11	-1,050.3	4,008.1	434.6	227.1	207.42	2.095	
10,800.0	6,736.1	11,015.8	6,920.6	117.2	117.7	115.12	-1,050.6	4,108.1	434.6	222.1	212.48	2.045	
10,900.0	6,734.9	11,115.8	6,919.5	120.0	120.4	115.13	-1,051.0	4,208.1	434.6	217.1	217.54	1.998	
11,000.0	6,733.8	11,215.8	6,918.5	122.8	123.2	115.15	-1,051.4	4,308.1	434.7	212.1	222.60	1.953	
11,100.0	6,732.7	11,315.8	6,917.5	125.6	126.0	115.16	-1,051.8	4,408.1	434.7	207.0	227.67	1.909	
11,200.0	6,731.6	11,415.8	6,916.5	128.4	128.8	115.17	-1,052.2	4,508.1	434.8	202.0	232.73	1.868	
11,227.3	6,731.3	11,443.1	6,916.2	129.1	129.5	115.18	-1,052.3	4,535.3	434.8	200.7	234.11	1.857	
11,253.6	6,731.0	11,466.4	6,916.0	129.9	130.2	115.18	-1,052.4	4,558.6	434.8	199.4	235.37	1.847	SF

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4655.0ft (RKB - 15')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: LaSalle 25G-212
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.57°



Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-212
Project:	SEC.25-T5N-R65W	**TVD Reference:**	WELL @ 4655.0ft (RKB - 15')
Reference Site:	LaSalle 25F-HZ Pad Sec.25-T5N-R65W	**MD Reference:**	WELL @ 4655.0ft (RKB - 15')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	LaSalle 25G-212	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (2-25-13)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4655.0ft (RKB - 15')	Coordinates are relative to: LaSalle 25G-212
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.57°