PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: LaSalle 25G-402

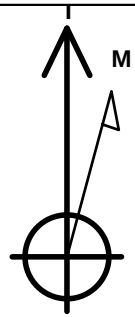
Surface Location: LaSalle 25F-HZ Pad Sec.25-T5N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4640.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1380140.87	3245133.35	40.373550	-104.620170	

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

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 2421'FNL, 500'FEL	6916.0	-1019.6	4558.6	Point



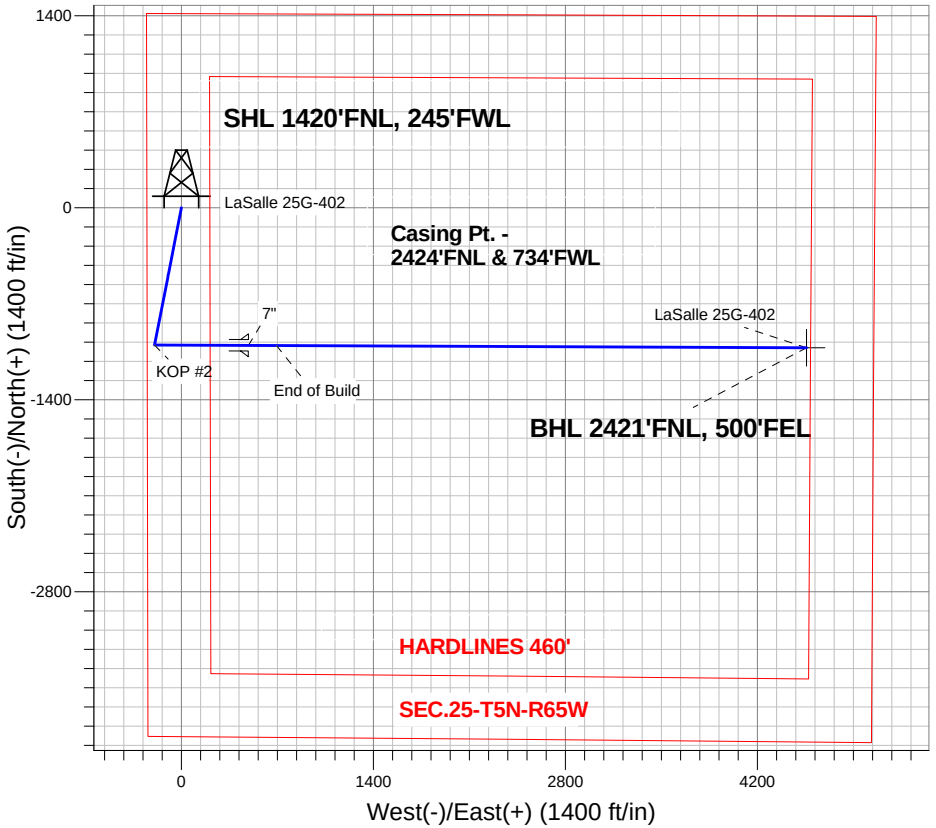
Azimuths to True North
Magnetic North: 8.56°

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

ANNOTATIONS

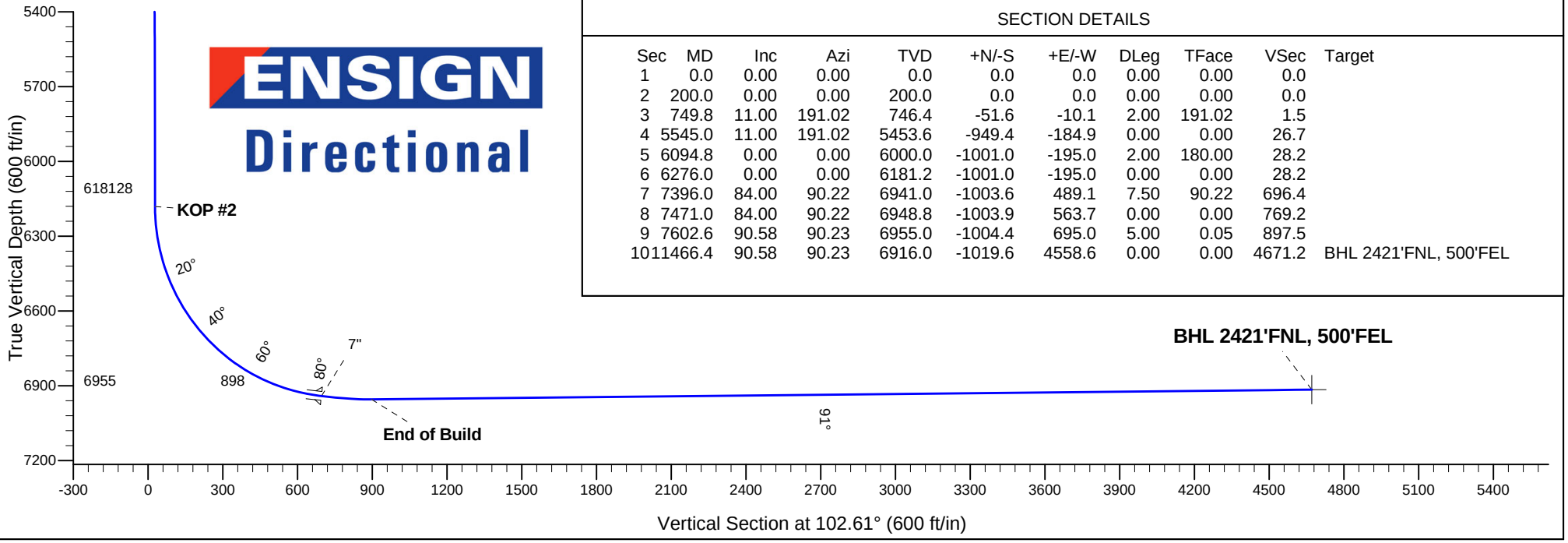
TVD	MD	Annotation
200.0	200.0	KOP #1
6181.2	6276.0	KOP #2
6955.0	7602.6	End of Build

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



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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	749.8	11.00	191.02	746.4	-51.6	-10.1	2.00	191.02	1.5	
4	5545.0	11.00	191.02	5453.6	-949.4	-184.9	0.00	0.00	26.7	
5	6094.8	0.00	0.00	6000.0	-1001.0	-195.0	2.00	180.00	28.2	
6	6276.0	0.00	0.00	6181.2	-1001.0	-195.0	0.00	0.00	28.2	
7	7396.0	84.00	90.22	6941.0	-1003.6	489.1	7.50	90.22	696.4	
8	7471.0	84.00	90.22	6948.8	-1003.9	563.7	0.00	0.00	769.2	
9	7602.6	90.58	90.23	6955.0	-1004.4	695.0	5.00	0.05	897.5	
10	11466.4	90.58	90.23	6916.0	-1019.6	4558.6	0.00	0.00	4671.2	BHL 2421'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-402

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-402
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-402	**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-402

Well Position	**+N/-S**	-91.1 ft	**Northing:**	1,380,140.87 ft	**Latitude:**	40.373550
	+E/-W	0.0 ft	**Easting:**	3,245,133.35 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	102.61

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
749.8	11.00	191.02	746.4	-51.6	-10.1	2.00	2.00	0.00	191.02	
5,545.0	11.00	191.02	5,453.6	-949.4	-184.9	0.00	0.00	0.00	0.00	
6,094.8	0.00	0.00	6,000.0	-1,001.0	-195.0	2.00	-2.00	0.00	180.00	
6,276.0	0.00	0.00	6,181.2	-1,001.0	-195.0	0.00	0.00	0.00	0.00	
7,396.0	84.00	90.22	6,941.0	-1,003.6	489.1	7.50	7.50	0.00	90.22	
7,471.0	84.00	90.22	6,948.8	-1,003.9	563.7	0.00	0.00	0.00	0.00	
7,602.6	90.58	90.23	6,955.0	-1,004.4	695.0	5.00	5.00	0.00	0.05	
11,466.4	90.58	90.23	6,916.0	-1,019.6	4,558.6	0.00	0.00	0.00	0.00	BHL 2421'FNL, 500

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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
KOP #1									
240.0	0.80	191.02	240.0	-0.3	-0.1	0.0	2.00	2.00	0.00
280.0	1.60	191.02	280.0	-1.1	-0.2	0.0	2.00	2.00	0.00
320.0	2.40	191.02	320.0	-2.5	-0.5	0.1	2.00	2.00	0.00
360.0	3.20	191.02	359.9	-4.4	-0.9	0.1	2.00	2.00	0.00
400.0	4.00	191.02	399.8	-6.8	-1.3	0.2	2.00	2.00	0.00
440.0	4.80	191.02	439.7	-9.9	-1.9	0.3	2.00	2.00	0.00
480.0	5.60	191.02	479.6	-13.4	-2.6	0.4	2.00	2.00	0.00
520.0	6.40	191.02	519.3	-17.5	-3.4	0.5	2.00	2.00	0.00
560.0	7.20	191.02	559.1	-22.2	-4.3	0.6	2.00	2.00	0.00
600.0	8.00	191.02	598.7	-27.4	-5.3	0.8	2.00	2.00	0.00
640.0	8.80	191.02	638.3	-33.1	-6.4	0.9	2.00	2.00	0.00
680.0	9.60	191.02	677.8	-39.4	-7.7	1.1	2.00	2.00	0.00
720.0	10.40	191.02	717.1	-46.2	-9.0	1.3	2.00	2.00	0.00
749.8	11.00	191.02	746.4	-51.6	-10.1	1.5	2.00	2.00	0.00
760.0	11.00	191.02	756.4	-53.5	-10.4	1.5	0.00	0.00	0.00
800.0	11.00	191.02	795.7	-61.0	-11.9	1.7	0.00	0.00	0.00
840.0	11.00	191.02	835.0	-68.5	-13.3	1.9	0.00	0.00	0.00
880.0	11.00	191.02	874.2	-76.0	-14.8	2.1	0.00	0.00	0.00
920.0	11.00	191.02	913.5	-83.5	-16.3	2.4	0.00	0.00	0.00
960.0	11.00	191.02	952.8	-91.0	-17.7	2.6	0.00	0.00	0.00
1,000.0	11.00	191.02	992.0	-98.5	-19.2	2.8	0.00	0.00	0.00
1,040.0	11.00	191.02	1,031.3	-106.0	-20.6	3.0	0.00	0.00	0.00
1,080.0	11.00	191.02	1,070.6	-113.4	-22.1	3.2	0.00	0.00	0.00
1,120.0	11.00	191.02	1,109.8	-120.9	-23.6	3.4	0.00	0.00	0.00
1,160.0	11.00	191.02	1,149.1	-128.4	-25.0	3.6	0.00	0.00	0.00
1,200.0	11.00	191.02	1,188.4	-135.9	-26.5	3.8	0.00	0.00	0.00
1,240.0	11.00	191.02	1,227.6	-143.4	-27.9	4.0	0.00	0.00	0.00
1,280.0	11.00	191.02	1,266.9	-150.9	-29.4	4.3	0.00	0.00	0.00
1,320.0	11.00	191.02	1,306.2	-158.4	-30.9	4.5	0.00	0.00	0.00
1,360.0	11.00	191.02	1,345.4	-165.9	-32.3	4.7	0.00	0.00	0.00
1,400.0	11.00	191.02	1,384.7	-173.4	-33.8	4.9	0.00	0.00	0.00
1,440.0	11.00	191.02	1,424.0	-180.8	-35.2	5.1	0.00	0.00	0.00
1,480.0	11.00	191.02	1,463.2	-188.3	-36.7	5.3	0.00	0.00	0.00
1,520.0	11.00	191.02	1,502.5	-195.8	-38.1	5.5	0.00	0.00	0.00
1,560.0	11.00	191.02	1,541.8	-203.3	-39.6	5.7	0.00	0.00	0.00
1,600.0	11.00	191.02	1,581.0	-210.8	-41.1	5.9	0.00	0.00	0.00
1,640.0	11.00	191.02	1,620.3	-218.3	-42.5	6.1	0.00	0.00	0.00
1,680.0	11.00	191.02	1,659.6	-225.8	-44.0	6.4	0.00	0.00	0.00
1,720.0	11.00	191.02	1,698.8	-233.3	-45.4	6.6	0.00	0.00	0.00
1,760.0	11.00	191.02	1,738.1	-240.8	-46.9	6.8	0.00	0.00	0.00
1,800.0	11.00	191.02	1,777.4	-248.2	-48.4	7.0	0.00	0.00	0.00
1,840.0	11.00	191.02	1,816.6	-255.7	-49.8	7.2	0.00	0.00	0.00
1,880.0	11.00	191.02	1,855.9	-263.2	-51.3	7.4	0.00	0.00	0.00
1,920.0	11.00	191.02	1,895.1	-270.7	-52.7	7.6	0.00	0.00	0.00
1,960.0	11.00	191.02	1,934.4	-278.2	-54.2	7.8	0.00	0.00	0.00
2,000.0	11.00	191.02	1,973.7	-285.7	-55.7	8.0	0.00	0.00	0.00

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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-402	**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	11.00	191.02	2,012.9	-293.2	-57.1	8.3	0.00	0.00	0.00
2,080.0	11.00	191.02	2,052.2	-300.7	-58.6	8.5	0.00	0.00	0.00
2,120.0	11.00	191.02	2,091.5	-308.2	-60.0	8.7	0.00	0.00	0.00
2,160.0	11.00	191.02	2,130.7	-315.6	-61.5	8.9	0.00	0.00	0.00
2,200.0	11.00	191.02	2,170.0	-323.1	-62.9	9.1	0.00	0.00	0.00
2,240.0	11.00	191.02	2,209.3	-330.6	-64.4	9.3	0.00	0.00	0.00
2,280.0	11.00	191.02	2,248.5	-338.1	-65.9	9.5	0.00	0.00	0.00
2,320.0	11.00	191.02	2,287.8	-345.6	-67.3	9.7	0.00	0.00	0.00
2,360.0	11.00	191.02	2,327.1	-353.1	-68.8	9.9	0.00	0.00	0.00
2,400.0	11.00	191.02	2,366.3	-360.6	-70.2	10.2	0.00	0.00	0.00
2,440.0	11.00	191.02	2,405.6	-368.1	-71.7	10.4	0.00	0.00	0.00
2,480.0	11.00	191.02	2,444.9	-375.6	-73.2	10.6	0.00	0.00	0.00
2,520.0	11.00	191.02	2,484.1	-383.0	-74.6	10.8	0.00	0.00	0.00
2,560.0	11.00	191.02	2,523.4	-390.5	-76.1	11.0	0.00	0.00	0.00
2,600.0	11.00	191.02	2,562.7	-398.0	-77.5	11.2	0.00	0.00	0.00
2,640.0	11.00	191.02	2,601.9	-405.5	-79.0	11.4	0.00	0.00	0.00
2,680.0	11.00	191.02	2,641.2	-413.0	-80.5	11.6	0.00	0.00	0.00
2,720.0	11.00	191.02	2,680.5	-420.5	-81.9	11.8	0.00	0.00	0.00
2,760.0	11.00	191.02	2,719.7	-428.0	-83.4	12.1	0.00	0.00	0.00
2,800.0	11.00	191.02	2,759.0	-435.5	-84.8	12.3	0.00	0.00	0.00
2,840.0	11.00	191.02	2,798.3	-443.0	-86.3	12.5	0.00	0.00	0.00
2,880.0	11.00	191.02	2,837.5	-450.4	-87.7	12.7	0.00	0.00	0.00
2,920.0	11.00	191.02	2,876.8	-457.9	-89.2	12.9	0.00	0.00	0.00
2,960.0	11.00	191.02	2,916.1	-465.4	-90.7	13.1	0.00	0.00	0.00
3,000.0	11.00	191.02	2,955.3	-472.9	-92.1	13.3	0.00	0.00	0.00
3,040.0	11.00	191.02	2,994.6	-480.4	-93.6	13.5	0.00	0.00	0.00
3,080.0	11.00	191.02	3,033.9	-487.9	-95.0	13.7	0.00	0.00	0.00
3,120.0	11.00	191.02	3,073.1	-495.4	-96.5	14.0	0.00	0.00	0.00
3,160.0	11.00	191.02	3,112.4	-502.9	-98.0	14.2	0.00	0.00	0.00
3,200.0	11.00	191.02	3,151.6	-510.4	-99.4	14.4	0.00	0.00	0.00
3,240.0	11.00	191.02	3,190.9	-517.8	-100.9	14.6	0.00	0.00	0.00
3,280.0	11.00	191.02	3,230.2	-525.3	-102.3	14.8	0.00	0.00	0.00
3,320.0	11.00	191.02	3,269.4	-532.8	-103.8	15.0	0.00	0.00	0.00
3,360.0	11.00	191.02	3,308.7	-540.3	-105.3	15.2	0.00	0.00	0.00
3,400.0	11.00	191.02	3,348.0	-547.8	-106.7	15.4	0.00	0.00	0.00
3,440.0	11.00	191.02	3,387.2	-555.3	-108.2	15.6	0.00	0.00	0.00
3,480.0	11.00	191.02	3,426.5	-562.8	-109.6	15.9	0.00	0.00	0.00
3,520.0	11.00	191.02	3,465.8	-570.3	-111.1	16.1	0.00	0.00	0.00
3,560.0	11.00	191.02	3,505.0	-577.7	-112.5	16.3	0.00	0.00	0.00
3,600.0	11.00	191.02	3,544.3	-585.2	-114.0	16.5	0.00	0.00	0.00
3,640.0	11.00	191.02	3,583.6	-592.7	-115.5	16.7	0.00	0.00	0.00
3,680.0	11.00	191.02	3,622.8	-600.2	-116.9	16.9	0.00	0.00	0.00
3,720.0	11.00	191.02	3,662.1	-607.7	-118.4	17.1	0.00	0.00	0.00
3,760.0	11.00	191.02	3,701.4	-615.2	-119.8	17.3	0.00	0.00	0.00
3,800.0	11.00	191.02	3,740.6	-622.7	-121.3	17.5	0.00	0.00	0.00
3,840.0	11.00	191.02	3,779.9	-630.2	-122.8	17.8	0.00	0.00	0.00
3,880.0	11.00	191.02	3,819.2	-637.7	-124.2	18.0	0.00	0.00	0.00
3,920.0	11.00	191.02	3,858.4	-645.1	-125.7	18.2	0.00	0.00	0.00
3,960.0	11.00	191.02	3,897.7	-652.6	-127.1	18.4	0.00	0.00	0.00
4,000.0	11.00	191.02	3,937.0	-660.1	-128.6	18.6	0.00	0.00	0.00
4,040.0	11.00	191.02	3,976.2	-667.6	-130.1	18.8	0.00	0.00	0.00
4,080.0	11.00	191.02	4,015.5	-675.1	-131.5	19.0	0.00	0.00	0.00
4,120.0	11.00	191.02	4,054.8	-682.6	-133.0	19.2	0.00	0.00	0.00

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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-402	**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	11.00	191.02	4,094.0	-690.1	-134.4	19.4	0.00	0.00	0.00
4,200.0	11.00	191.02	4,133.3	-697.6	-135.9	19.7	0.00	0.00	0.00
4,240.0	11.00	191.02	4,172.6	-705.1	-137.3	19.9	0.00	0.00	0.00
4,280.0	11.00	191.02	4,211.8	-712.5	-138.8	20.1	0.00	0.00	0.00
4,320.0	11.00	191.02	4,251.1	-720.0	-140.3	20.3	0.00	0.00	0.00
4,360.0	11.00	191.02	4,290.4	-727.5	-141.7	20.5	0.00	0.00	0.00
4,400.0	11.00	191.02	4,329.6	-735.0	-143.2	20.7	0.00	0.00	0.00
4,440.0	11.00	191.02	4,368.9	-742.5	-144.6	20.9	0.00	0.00	0.00
4,480.0	11.00	191.02	4,408.1	-750.0	-146.1	21.1	0.00	0.00	0.00
4,520.0	11.00	191.02	4,447.4	-757.5	-147.6	21.3	0.00	0.00	0.00
4,560.0	11.00	191.02	4,486.7	-765.0	-149.0	21.6	0.00	0.00	0.00
4,600.0	11.00	191.02	4,525.9	-772.5	-150.5	21.8	0.00	0.00	0.00
4,640.0	11.00	191.02	4,565.2	-779.9	-151.9	22.0	0.00	0.00	0.00
4,680.0	11.00	191.02	4,604.5	-787.4	-153.4	22.2	0.00	0.00	0.00
4,720.0	11.00	191.02	4,643.7	-794.9	-154.9	22.4	0.00	0.00	0.00
4,760.0	11.00	191.02	4,683.0	-802.4	-156.3	22.6	0.00	0.00	0.00
4,800.0	11.00	191.02	4,722.3	-809.9	-157.8	22.8	0.00	0.00	0.00
4,840.0	11.00	191.02	4,761.5	-817.4	-159.2	23.0	0.00	0.00	0.00
4,880.0	11.00	191.02	4,800.8	-824.9	-160.7	23.2	0.00	0.00	0.00
4,920.0	11.00	191.02	4,840.1	-832.4	-162.1	23.5	0.00	0.00	0.00
4,960.0	11.00	191.02	4,879.3	-839.9	-163.6	23.7	0.00	0.00	0.00
5,000.0	11.00	191.02	4,918.6	-847.3	-165.1	23.9	0.00	0.00	0.00
5,040.0	11.00	191.02	4,957.9	-854.8	-166.5	24.1	0.00	0.00	0.00
5,080.0	11.00	191.02	4,997.1	-862.3	-168.0	24.3	0.00	0.00	0.00
5,120.0	11.00	191.02	5,036.4	-869.8	-169.4	24.5	0.00	0.00	0.00
5,160.0	11.00	191.02	5,075.7	-877.3	-170.9	24.7	0.00	0.00	0.00
5,200.0	11.00	191.02	5,114.9	-884.8	-172.4	24.9	0.00	0.00	0.00
5,240.0	11.00	191.02	5,154.2	-892.3	-173.8	25.1	0.00	0.00	0.00
5,280.0	11.00	191.02	5,193.5	-899.8	-175.3	25.3	0.00	0.00	0.00
5,320.0	11.00	191.02	5,232.7	-907.3	-176.7	25.6	0.00	0.00	0.00
5,360.0	11.00	191.02	5,272.0	-914.7	-178.2	25.8	0.00	0.00	0.00
5,400.0	11.00	191.02	5,311.3	-922.2	-179.7	26.0	0.00	0.00	0.00
5,440.0	11.00	191.02	5,350.5	-929.7	-181.1	26.2	0.00	0.00	0.00
5,480.0	11.00	191.02	5,389.8	-937.2	-182.6	26.4	0.00	0.00	0.00
5,520.0	11.00	191.02	5,429.1	-944.7	-184.0	26.6	0.00	0.00	0.00
5,545.0	11.00	191.02	5,453.6	-949.4	-184.9	26.7	0.00	0.00	0.00
5,560.0	10.70	191.02	5,468.3	-952.1	-185.5	26.8	2.00	-2.00	0.00
5,600.0	9.90	191.02	5,507.7	-959.2	-186.9	27.0	2.00	-2.00	0.00
5,640.0	9.10	191.02	5,547.1	-965.6	-188.1	27.2	2.00	-2.00	0.00
5,680.0	8.30	191.02	5,586.7	-971.6	-189.3	27.4	2.00	-2.00	0.00
5,720.0	7.50	191.02	5,626.3	-977.0	-190.3	27.5	2.00	-2.00	0.00
5,760.0	6.70	191.02	5,666.0	-981.8	-191.3	27.7	2.00	-2.00	0.00
5,800.0	5.90	191.02	5,705.7	-986.1	-192.1	27.8	2.00	-2.00	0.00
5,840.0	5.10	191.02	5,745.6	-989.9	-192.8	27.9	2.00	-2.00	0.00
5,880.0	4.30	191.02	5,785.4	-993.1	-193.5	28.0	2.00	-2.00	0.00
5,920.0	3.50	191.02	5,825.3	-995.8	-194.0	28.1	2.00	-2.00	0.00
5,960.0	2.70	191.02	5,865.3	-997.9	-194.4	28.1	2.00	-2.00	0.00
6,000.0	1.90	191.02	5,905.2	-999.5	-194.7	28.2	2.00	-2.00	0.00
6,040.0	1.10	191.02	5,945.2	-1,000.5	-194.9	28.2	2.00	-2.00	0.00
6,080.0	0.30	191.02	5,985.2	-1,001.0	-195.0	28.2	2.00	-2.00	0.00
6,094.8	0.00	0.00	6,000.0	-1,001.0	-195.0	28.2	2.00	-2.00	0.00
6,120.0	0.00	0.00	6,025.2	-1,001.0	-195.0	28.2	0.00	0.00	0.00
6,160.0	0.00	0.00	6,065.2	-1,001.0	-195.0	28.2	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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)
6,200.0	0.00	0.00	6,105.2	-1,001.0	-195.0	28.2	0.00	0.00	0.00
6,240.0	0.00	0.00	6,145.2	-1,001.0	-195.0	28.2	0.00	0.00	0.00
6,276.0	0.00	0.00	6,181.2	-1,001.0	-195.0	28.2	0.00	0.00	0.00
KOP #2									
6,280.0	0.30	90.22	6,185.2	-1,001.0	-195.0	28.2	7.50	7.50	0.00
6,320.0	3.30	90.22	6,225.2	-1,001.0	-193.7	29.4	7.50	7.50	0.00
6,360.0	6.30	90.22	6,265.1	-1,001.0	-190.4	32.7	7.50	7.50	0.00
6,400.0	9.30	90.22	6,304.7	-1,001.0	-185.0	38.0	7.50	7.50	0.00
6,440.0	12.30	90.22	6,344.0	-1,001.1	-177.5	45.3	7.50	7.50	0.00
6,480.0	15.30	90.22	6,382.8	-1,001.1	-167.9	54.6	7.50	7.50	0.00
6,520.0	18.30	90.22	6,421.1	-1,001.1	-156.4	65.9	7.50	7.50	0.00
6,560.0	21.30	90.22	6,458.7	-1,001.2	-142.8	79.2	7.50	7.50	0.00
6,600.0	24.30	90.22	6,495.6	-1,001.3	-127.3	94.3	7.50	7.50	0.00
6,640.0	27.30	90.22	6,531.6	-1,001.3	-109.9	111.3	7.50	7.50	0.00
6,680.0	30.30	90.22	6,566.7	-1,001.4	-90.6	130.1	7.50	7.50	0.00
6,720.0	33.30	90.22	6,600.6	-1,001.5	-69.6	150.7	7.50	7.50	0.00
6,760.0	36.30	90.22	6,633.5	-1,001.6	-46.7	173.0	7.50	7.50	0.00
6,800.0	39.30	90.22	6,665.1	-1,001.7	-22.2	197.0	7.50	7.50	0.00
6,840.0	42.30	90.22	6,695.4	-1,001.8	3.9	222.5	7.50	7.50	0.00
6,880.0	45.30	90.22	6,724.2	-1,001.9	31.6	249.5	7.50	7.50	0.00
6,920.0	48.30	90.22	6,751.6	-1,002.0	60.7	278.0	7.50	7.50	0.00
6,960.0	51.30	90.22	6,777.4	-1,002.1	91.3	307.8	7.50	7.50	0.00
7,000.0	54.30	90.22	6,801.6	-1,002.2	123.1	338.9	7.50	7.50	0.00
7,040.0	57.30	90.22	6,824.1	-1,002.3	156.2	371.3	7.50	7.50	0.00
7,080.0	60.30	90.22	6,844.8	-1,002.5	190.4	404.7	7.50	7.50	0.00
7,120.0	63.30	90.22	6,863.7	-1,002.6	225.7	439.1	7.50	7.50	0.00
7,160.0	66.30	90.22	6,880.7	-1,002.8	261.9	474.4	7.50	7.50	0.00
7,200.0	69.30	90.22	6,895.9	-1,002.9	298.9	510.6	7.50	7.50	0.00
7,240.0	72.30	90.22	6,909.0	-1,003.0	336.7	547.5	7.50	7.50	0.00
7,280.0	75.30	90.22	6,920.2	-1,003.2	375.1	585.0	7.50	7.50	0.00
7,320.0	78.30	90.22	6,929.3	-1,003.3	414.0	623.0	7.50	7.50	0.00
7,360.0	81.30	90.22	6,936.4	-1,003.5	453.4	661.5	7.50	7.50	0.00
7,396.0	84.00	90.22	6,941.0	-1,003.6	489.1	696.4	7.50	7.50	0.00
7"									
7,400.0	84.00	90.22	6,941.4	-1,003.6	493.1	700.2	0.00	0.00	0.00
7,440.0	84.00	90.22	6,945.6	-1,003.8	532.8	739.1	0.00	0.00	0.00
7,471.0	84.00	90.22	6,948.8	-1,003.9	563.7	769.2	0.00	0.00	0.00
7,480.0	84.45	90.22	6,949.7	-1,003.9	572.6	778.0	5.00	5.00	0.00
7,520.0	86.45	90.22	6,952.9	-1,004.1	612.5	816.9	5.00	5.00	0.00
7,560.0	88.45	90.22	6,954.7	-1,004.3	652.5	855.9	5.00	5.00	0.00
7,600.0	90.45	90.23	6,955.1	-1,004.4	692.5	895.0	5.00	5.00	0.00
7,602.6	90.58	90.23	6,955.0	-1,004.4	695.1	897.5	4.97	4.97	0.00
End of Build									
7,640.0	90.58	90.23	6,954.7	-1,004.6	732.4	934.1	0.00	0.00	0.00
7,680.0	90.58	90.23	6,954.3	-1,004.7	772.4	973.1	0.00	0.00	0.00
7,720.0	90.58	90.23	6,953.9	-1,004.9	812.4	1,012.2	0.00	0.00	0.00
7,760.0	90.58	90.23	6,953.5	-1,005.0	852.4	1,051.3	0.00	0.00	0.00
7,800.0	90.58	90.23	6,953.1	-1,005.2	892.4	1,090.3	0.00	0.00	0.00
7,840.0	90.58	90.23	6,952.6	-1,005.4	932.4	1,129.4	0.00	0.00	0.00
7,880.0	90.58	90.23	6,952.2	-1,005.5	972.4	1,168.5	0.00	0.00	0.00
7,920.0	90.58	90.23	6,951.8	-1,005.7	1,012.4	1,207.5	0.00	0.00	0.00
7,960.0	90.58	90.23	6,951.4	-1,005.8	1,052.4	1,246.6	0.00	0.00	0.00
8,000.0	90.58	90.23	6,951.0	-1,006.0	1,092.4	1,285.7	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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)
8,040.0	90.58	90.23	6,950.6	-1,006.1	1,132.4	1,324.7	0.00	0.00	0.00
8,080.0	90.58	90.23	6,950.2	-1,006.3	1,172.4	1,363.8	0.00	0.00	0.00
8,120.0	90.58	90.23	6,949.8	-1,006.5	1,212.4	1,402.9	0.00	0.00	0.00
8,160.0	90.58	90.23	6,949.4	-1,006.6	1,252.4	1,441.9	0.00	0.00	0.00
8,200.0	90.58	90.23	6,949.0	-1,006.8	1,292.4	1,481.0	0.00	0.00	0.00
8,240.0	90.58	90.23	6,948.6	-1,006.9	1,332.4	1,520.1	0.00	0.00	0.00
8,280.0	90.58	90.23	6,948.2	-1,007.1	1,372.4	1,559.1	0.00	0.00	0.00
8,320.0	90.58	90.23	6,947.8	-1,007.2	1,412.4	1,598.2	0.00	0.00	0.00
8,360.0	90.58	90.23	6,947.4	-1,007.4	1,452.4	1,637.3	0.00	0.00	0.00
8,400.0	90.58	90.23	6,947.0	-1,007.6	1,492.4	1,676.3	0.00	0.00	0.00
8,440.0	90.58	90.23	6,946.6	-1,007.7	1,532.4	1,715.4	0.00	0.00	0.00
8,480.0	90.58	90.23	6,946.2	-1,007.9	1,572.4	1,754.5	0.00	0.00	0.00
8,520.0	90.58	90.23	6,945.8	-1,008.0	1,612.4	1,793.6	0.00	0.00	0.00
8,560.0	90.58	90.23	6,945.4	-1,008.2	1,652.4	1,832.6	0.00	0.00	0.00
8,600.0	90.58	90.23	6,945.0	-1,008.4	1,692.4	1,871.7	0.00	0.00	0.00
8,640.0	90.58	90.23	6,944.6	-1,008.5	1,732.4	1,910.8	0.00	0.00	0.00
8,680.0	90.58	90.23	6,944.2	-1,008.7	1,772.4	1,949.8	0.00	0.00	0.00
8,720.0	90.58	90.23	6,943.8	-1,008.8	1,812.4	1,988.9	0.00	0.00	0.00
8,760.0	90.58	90.23	6,943.3	-1,009.0	1,852.4	2,028.0	0.00	0.00	0.00
8,800.0	90.58	90.23	6,942.9	-1,009.1	1,892.4	2,067.0	0.00	0.00	0.00
8,840.0	90.58	90.23	6,942.5	-1,009.3	1,932.4	2,106.1	0.00	0.00	0.00
8,880.0	90.58	90.23	6,942.1	-1,009.5	1,972.4	2,145.2	0.00	0.00	0.00
8,920.0	90.58	90.23	6,941.7	-1,009.6	2,012.4	2,184.2	0.00	0.00	0.00
8,960.0	90.58	90.23	6,941.3	-1,009.8	2,052.4	2,223.3	0.00	0.00	0.00
9,000.0	90.58	90.23	6,940.9	-1,009.9	2,092.4	2,262.4	0.00	0.00	0.00
9,040.0	90.58	90.23	6,940.5	-1,010.1	2,132.4	2,301.4	0.00	0.00	0.00
9,080.0	90.58	90.23	6,940.1	-1,010.2	2,172.4	2,340.5	0.00	0.00	0.00
9,120.0	90.58	90.23	6,939.7	-1,010.4	2,212.4	2,379.6	0.00	0.00	0.00
9,160.0	90.58	90.23	6,939.3	-1,010.6	2,252.4	2,418.6	0.00	0.00	0.00
9,200.0	90.58	90.23	6,938.9	-1,010.7	2,292.4	2,457.7	0.00	0.00	0.00
9,240.0	90.58	90.23	6,938.5	-1,010.9	2,332.4	2,496.8	0.00	0.00	0.00
9,280.0	90.58	90.23	6,938.1	-1,011.0	2,372.4	2,535.8	0.00	0.00	0.00
9,320.0	90.58	90.23	6,937.7	-1,011.2	2,412.4	2,574.9	0.00	0.00	0.00
9,360.0	90.58	90.23	6,937.3	-1,011.3	2,452.3	2,614.0	0.00	0.00	0.00
9,400.0	90.58	90.23	6,936.9	-1,011.5	2,492.3	2,653.0	0.00	0.00	0.00
9,440.0	90.58	90.23	6,936.5	-1,011.7	2,532.3	2,692.1	0.00	0.00	0.00
9,480.0	90.58	90.23	6,936.1	-1,011.8	2,572.3	2,731.2	0.00	0.00	0.00
9,520.0	90.58	90.23	6,935.7	-1,012.0	2,612.3	2,770.2	0.00	0.00	0.00
9,560.0	90.58	90.23	6,935.3	-1,012.1	2,652.3	2,809.3	0.00	0.00	0.00
9,600.0	90.58	90.23	6,934.9	-1,012.3	2,692.3	2,848.4	0.00	0.00	0.00
9,640.0	90.58	90.23	6,934.5	-1,012.4	2,732.3	2,887.4	0.00	0.00	0.00
9,680.0	90.58	90.23	6,934.1	-1,012.6	2,772.3	2,926.5	0.00	0.00	0.00
9,720.0	90.58	90.23	6,933.6	-1,012.8	2,812.3	2,965.6	0.00	0.00	0.00
9,760.0	90.58	90.23	6,933.2	-1,012.9	2,852.3	3,004.6	0.00	0.00	0.00
9,800.0	90.58	90.23	6,932.8	-1,013.1	2,892.3	3,043.7	0.00	0.00	0.00
9,840.0	90.58	90.23	6,932.4	-1,013.2	2,932.3	3,082.8	0.00	0.00	0.00
9,880.0	90.58	90.23	6,932.0	-1,013.4	2,972.3	3,121.8	0.00	0.00	0.00
9,920.0	90.58	90.23	6,931.6	-1,013.6	3,012.3	3,160.9	0.00	0.00	0.00
9,960.0	90.58	90.23	6,931.2	-1,013.7	3,052.3	3,200.0	0.00	0.00	0.00
10,000.0	90.58	90.23	6,930.8	-1,013.9	3,092.3	3,239.1	0.00	0.00	0.00
10,040.0	90.58	90.23	6,930.4	-1,014.0	3,132.3	3,278.1	0.00	0.00	0.00
10,080.0	90.58	90.23	6,930.0	-1,014.2	3,172.3	3,317.2	0.00	0.00	0.00
10,120.0	90.58	90.23	6,929.6	-1,014.3	3,212.3	3,356.3	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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)
10,160.0	90.58	90.23	6,929.2	-1,014.5	3,252.3	3,395.3	0.00	0.00	0.00
10,200.0	90.58	90.23	6,928.8	-1,014.7	3,292.3	3,434.4	0.00	0.00	0.00
10,240.0	90.58	90.23	6,928.4	-1,014.8	3,332.3	3,473.5	0.00	0.00	0.00
10,280.0	90.58	90.23	6,928.0	-1,015.0	3,372.3	3,512.5	0.00	0.00	0.00
10,320.0	90.58	90.23	6,927.6	-1,015.1	3,412.3	3,551.6	0.00	0.00	0.00
10,360.0	90.58	90.23	6,927.2	-1,015.3	3,452.3	3,590.7	0.00	0.00	0.00
10,400.0	90.58	90.23	6,926.8	-1,015.4	3,492.3	3,629.7	0.00	0.00	0.00
10,440.0	90.58	90.23	6,926.4	-1,015.6	3,532.3	3,668.8	0.00	0.00	0.00
10,480.0	90.58	90.23	6,926.0	-1,015.8	3,572.3	3,707.9	0.00	0.00	0.00
10,520.0	90.58	90.23	6,925.6	-1,015.9	3,612.3	3,746.9	0.00	0.00	0.00
10,560.0	90.58	90.23	6,925.2	-1,016.1	3,652.3	3,786.0	0.00	0.00	0.00
10,600.0	90.58	90.23	6,924.8	-1,016.2	3,692.3	3,825.1	0.00	0.00	0.00
10,640.0	90.58	90.23	6,924.4	-1,016.4	3,732.3	3,864.1	0.00	0.00	0.00
10,680.0	90.58	90.23	6,923.9	-1,016.5	3,772.3	3,903.2	0.00	0.00	0.00
10,720.0	90.58	90.23	6,923.5	-1,016.7	3,812.3	3,942.3	0.00	0.00	0.00
10,760.0	90.58	90.23	6,923.1	-1,016.9	3,852.3	3,981.3	0.00	0.00	0.00
10,800.0	90.58	90.23	6,922.7	-1,017.0	3,892.3	4,020.4	0.00	0.00	0.00
10,840.0	90.58	90.23	6,922.3	-1,017.2	3,932.3	4,059.5	0.00	0.00	0.00
10,880.0	90.58	90.23	6,921.9	-1,017.3	3,972.3	4,098.5	0.00	0.00	0.00
10,920.0	90.58	90.23	6,921.5	-1,017.5	4,012.3	4,137.6	0.00	0.00	0.00
10,960.0	90.58	90.23	6,921.1	-1,017.6	4,052.3	4,176.7	0.00	0.00	0.00
11,000.0	90.58	90.23	6,920.7	-1,017.8	4,092.3	4,215.7	0.00	0.00	0.00
11,040.0	90.58	90.23	6,920.3	-1,018.0	4,132.2	4,254.8	0.00	0.00	0.00
11,080.0	90.58	90.23	6,919.9	-1,018.1	4,172.2	4,293.9	0.00	0.00	0.00
11,120.0	90.58	90.23	6,919.5	-1,018.3	4,212.2	4,332.9	0.00	0.00	0.00
11,160.0	90.58	90.23	6,919.1	-1,018.4	4,252.2	4,372.0	0.00	0.00	0.00
11,200.0	90.58	90.23	6,918.7	-1,018.6	4,292.2	4,411.1	0.00	0.00	0.00
11,240.0	90.58	90.23	6,918.3	-1,018.7	4,332.2	4,450.1	0.00	0.00	0.00
11,280.0	90.58	90.23	6,917.9	-1,018.9	4,372.2	4,489.2	0.00	0.00	0.00
11,320.0	90.58	90.23	6,917.5	-1,019.1	4,412.2	4,528.3	0.00	0.00	0.00
11,360.0	90.58	90.23	6,917.1	-1,019.2	4,452.2	4,567.3	0.00	0.00	0.00
11,400.0	90.58	90.23	6,916.7	-1,019.4	4,492.2	4,606.4	0.00	0.00	0.00
11,440.0	90.58	90.23	6,916.3	-1,019.5	4,532.2	4,645.5	0.00	0.00	0.00
11,466.4	90.58	90.23	6,916.0	-1,019.6	4,558.6	4,671.2	0.00	0.00	0.00

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,396.0	6,941.0	7"	7	8-3/4

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP #1
6,276.0	6,181.2	-1,001.0	-195.0	KOP #2
7,602.6	6,955.0	-1,004.4	695.1	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-402

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-402
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-402	**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
Depth Range: Unlimited
Results Limited by: Maximum center-center distance of 10,000.0ft
Warning Levels Evaluated at: 2.00 **Sigma**
Error Model: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic

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

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,466.4	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)	200.0	200.0	61.9	61.3	91.848	CC, ES
LaSalle 25F-332 - Wellbore #1 - Plan #1 (2-25-13)	11,466.4	11,315.5	885.0	627.6	3.439	SF
LaSalle 25G-212 - Wellbore #1 - Plan #1 (2-25-13)	200.0	200.0	32.8	32.1	48.619	CC, ES
LaSalle 25G-212 - Wellbore #1 - Plan #1 (2-25-13)	11,466.4	11,250.4	434.8	199.5	1.848	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	61.9	0.0	61.9				
100.0	100.0	100.0	100.0	0.1	0.1	0.00	61.9	0.0	61.9	61.7	0.22	275.543	
200.0	200.0	200.0	200.0	0.3	0.3	0.00	61.9	0.0	61.9	61.3	0.67	91.848	CC, ES
300.0	300.0	300.0	300.0	0.5	0.6	169.27	61.9	0.0	63.6	62.5	1.11	57.455	
400.0	399.8	399.8	399.8	0.8	0.8	170.06	61.9	0.0	68.8	67.3	1.54	44.613	
500.0	499.5	499.5	499.5	1.0	1.0	171.15	61.9	0.0	77.4	75.4	1.99	38.903	
600.0	598.7	598.7	598.7	1.3	1.2	172.32	61.9	0.0	89.5	87.0	2.44	36.611	
700.0	697.5	697.5	697.5	1.6	1.5	173.42	61.9	0.0	105.0	102.1	2.90	36.178	
800.0	795.7	795.7	795.7	2.0	1.7	174.40	61.9	0.0	123.5	120.2	3.36	36.769	
900.0	893.9	893.9	893.9	2.4	1.9	175.15	61.9	0.0	142.5	138.7	3.82	37.320	
1,000.0	992.0	992.0	992.0	2.8	2.1	175.72	61.9	0.0	161.5	157.3	4.28	37.717	
1,100.0	1,090.2	1,090.2	1,090.2	3.2	2.3	176.17	61.9	0.0	180.6	175.8	4.75	38.016	
1,200.0	1,188.4	1,188.4	1,188.4	3.6	2.6	176.54	61.9	0.0	199.6	194.4	5.22	38.246	
1,300.0	1,286.5	1,286.5	1,286.5	4.1	2.8	176.84	61.9	0.0	218.7	213.0	5.69	38.428	
1,400.0	1,384.7	1,384.7	1,384.7	4.5	3.0	177.09	61.9	0.0	237.7	231.5	6.16	38.574	
1,500.0	1,482.9	1,482.9	1,482.9	4.9	3.2	177.31	61.9	0.0	256.8	250.1	6.64	38.694	
1,600.0	1,581.0	1,581.0	1,581.0	5.3	3.4	177.49	61.9	0.0	275.8	268.7	7.11	38.795	
1,700.0	1,679.2	1,679.2	1,679.2	5.8	3.7	177.66	61.9	0.0	294.9	287.3	7.58	38.879	
1,800.0	1,777.4	1,777.4	1,777.4	6.2	3.9	177.80	61.9	0.0	313.9	305.9	8.06	38.951	
1,900.0	1,875.5	1,875.5	1,875.5	6.6	4.1	177.92	61.9	0.0	333.0	324.4	8.54	39.013	
2,000.0	1,973.7	1,973.7	1,973.7	7.0	4.3	178.04	61.9	0.0	352.0	343.0	9.01	39.067	
2,100.0	2,071.8	2,071.8	2,071.8	7.5	4.5	178.14	61.9	0.0	371.1	361.6	9.49	39.114	

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-402
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-402	**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	2,170.0	2,170.0	2,170.0	7.9	4.8	178.23	61.9	0.0	390.2	380.2	9.96	39.155	
2,300.0	2,268.2	2,268.2	2,268.2	8.3	5.0	178.31	61.9	0.0	409.2	398.8	10.44	39.192	
2,400.0	2,366.3	2,366.3	2,366.3	8.8	5.2	178.39	61.9	0.0	428.3	417.4	10.92	39.225	
2,500.0	2,464.5	2,464.5	2,464.5	9.2	5.4	178.45	61.9	0.0	447.4	436.0	11.40	39.254	
2,600.0	2,562.7	2,562.7	2,562.7	9.6	5.6	178.52	61.9	0.0	466.4	454.6	11.87	39.281	
2,700.0	2,660.8	2,660.8	2,660.8	10.0	5.9	178.58	61.9	0.0	485.5	473.2	12.35	39.305	
2,800.0	2,759.0	2,759.0	2,759.0	10.5	6.1	178.63	61.9	0.0	504.6	491.7	12.83	39.326	
2,900.0	2,857.2	2,857.2	2,857.2	10.9	6.3	178.68	61.9	0.0	523.6	510.3	13.31	39.346	
3,000.0	2,955.3	2,955.3	2,955.3	11.3	6.5	178.73	61.9	0.0	542.7	528.9	13.79	39.364	
3,100.0	3,053.5	3,063.5	3,063.4	11.8	6.8	178.73	61.4	-0.5	561.3	547.0	14.27	39.329	
3,200.0	3,151.6	3,180.9	3,180.7	12.2	7.0	178.48	58.0	-4.1	577.0	562.3	14.75	39.127	
3,300.0	3,249.8	3,299.2	3,298.6	12.6	7.2	177.96	51.2	-11.3	589.5	574.3	15.22	38.719	
3,400.0	3,348.0	3,402.3	3,401.1	13.0	7.4	177.35	43.3	-19.7	599.8	584.1	15.69	38.239	
3,500.0	3,446.1	3,501.6	3,499.8	13.5	7.6	176.78	35.6	-27.8	610.1	594.0	16.15	37.785	
3,600.0	3,544.3	3,600.9	3,598.4	13.9	7.8	176.23	27.9	-35.8	620.5	603.9	16.61	37.346	
3,700.0	3,642.5	3,700.2	3,697.1	14.3	8.0	175.70	20.2	-43.9	630.9	613.8	17.09	36.921	
3,800.0	3,740.6	3,799.5	3,795.8	14.8	8.2	175.19	12.6	-52.0	641.4	623.8	17.57	36.510	
3,900.0	3,838.8	3,898.7	3,894.4	15.2	8.5	174.69	4.9	-60.1	651.9	633.9	18.05	36.114	
4,000.0	3,937.0	3,998.0	3,993.1	15.6	8.7	174.21	-2.8	-68.2	662.5	643.9	18.54	35.730	
4,100.0	4,035.1	4,097.3	4,091.7	16.1	8.9	173.75	-10.5	-76.3	673.1	654.1	19.04	35.360	
4,200.0	4,133.3	4,196.6	4,190.4	16.5	9.2	173.29	-18.1	-84.4	683.8	664.2	19.54	35.001	
4,300.0	4,231.5	4,295.9	4,289.0	16.9	9.4	172.86	-25.8	-92.5	694.5	674.4	20.04	34.655	
4,400.0	4,329.6	4,395.2	4,387.7	17.3	9.7	172.43	-33.5	-100.6	705.2	684.7	20.55	34.321	
4,500.0	4,427.8	4,494.5	4,486.4	17.8	9.9	172.02	-41.2	-108.7	716.0	694.9	21.06	33.998	
4,600.0	4,525.9	4,593.8	4,585.0	18.2	10.2	171.62	-48.9	-116.8	726.8	705.2	21.58	33.686	
4,700.0	4,624.1	4,693.0	4,683.7	18.6	10.4	171.23	-56.5	-124.9	737.6	715.5	22.10	33.384	
4,800.0	4,722.3	4,792.3	4,782.3	19.1	10.7	170.86	-64.2	-133.0	748.5	725.9	22.62	33.092	
4,900.0	4,820.4	4,891.6	4,881.0	19.5	11.0	170.49	-71.9	-141.1	759.4	736.3	23.15	32.810	
5,000.0	4,918.6	4,990.9	4,979.7	19.9	11.2	170.14	-79.6	-149.2	770.4	746.7	23.68	32.537	
5,100.0	5,016.8	5,090.2	5,078.3	20.4	11.5	169.79	-87.2	-157.2	781.3	757.1	24.21	32.273	
5,200.0	5,114.9	5,189.5	5,177.0	20.8	11.8	169.45	-94.9	-165.3	792.3	767.6	24.75	32.018	
5,300.0	5,213.1	5,288.8	5,275.6	21.2	12.0	169.13	-102.6	-173.4	803.3	778.1	25.29	31.771	
5,400.0	5,311.3	5,388.1	5,374.3	21.6	12.3	168.81	-110.3	-181.5	814.4	788.6	25.83	31.532	
5,500.0	5,409.4	5,471.6	5,457.4	22.1	12.5	168.60	-116.0	-187.5	826.4	800.1	26.30	31.416	
5,600.0	5,507.7	5,554.2	5,539.8	22.5	12.7	168.55	-120.0	-191.7	839.8	813.0	26.77	31.369	
5,700.0	5,606.5	5,636.8	5,622.3	22.7	12.9	168.60	-122.3	-194.2	852.2	825.0	27.18	31.354	
5,800.0	5,705.7	5,720.2	5,705.7	22.9	13.0	168.73	-123.1	-195.0	863.1	835.5	27.54	31.343	
5,900.0	5,805.4	5,819.8	5,805.4	23.1	13.2	168.87	-123.1	-195.0	871.4	843.6	27.88	31.254	
6,000.0	5,905.2	5,919.7	5,905.2	23.3	13.4	168.95	-123.1	-195.0	876.4	848.2	28.20	31.073	
6,100.0	6,005.2	6,019.7	6,005.2	23.4	13.6	0.00	-123.1	-195.0	877.9	841.7	36.28	24.200	
6,200.0	6,105.2	6,119.7	6,105.2	23.5	13.8	0.00	-123.1	-195.0	877.9	841.4	36.58	24.001	
6,279.9	6,185.2	6,199.8	6,185.2	23.6	14.0	-90.04	-123.1	-191.2	877.9	848.8	29.12	30.147	
6,300.0	6,205.2	6,219.7	6,204.9	23.6	14.0	-89.85	-123.1	-189.0	877.9	848.8	29.16	30.102	
6,400.0	6,304.7	6,318.3	6,301.8	23.7	14.1	-89.25	-123.2	-170.4	878.0	848.6	29.37	29.896	
6,500.0	6,402.0	6,415.9	6,394.3	23.7	14.2	-88.66	-123.3	-139.8	878.2	848.6	29.52	29.752	
6,600.0	6,495.6	6,512.3	6,481.3	23.8	14.3	-88.09	-123.4	-98.3	878.4	848.7	29.67	29.603	
6,700.0	6,583.8	6,607.8	6,561.6	23.8	14.4	-87.56	-123.6	-46.7	878.7	848.8	29.93	29.360	
6,800.0	6,665.1	6,702.4	6,634.2	23.9	14.5	-87.07	-123.9	13.9	879.1	848.7	30.40	28.916	
6,900.0	6,738.1	6,796.2	6,698.2	23.9	15.0	-86.63	-124.2	82.4	879.4	848.2	31.22	28.165	
7,000.0	6,801.6	6,889.4	6,753.0	24.0	15.8	-86.25	-124.4	157.6	879.8	847.3	32.52	27.053	
7,100.0	6,854.5	6,982.0	6,798.0	24.2	16.8	-85.92	-124.8	238.5	880.1	845.8	34.37	25.607	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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	6,895.9	7,074.1	6,832.8	24.5	18.1	-85.66	-125.1	323.7	880.4	843.6	36.79	23.928	
7,300.0	6,925.0	7,165.9	6,857.0	25.0	19.7	-85.47	-125.4	412.2	880.6	840.9	39.75	22.153	
7,400.0	6,941.4	7,257.4	6,870.3	25.9	21.4	-85.36	-125.8	502.7	880.8	837.6	43.15	20.410	
7,500.0	6,951.5	7,349.4	6,872.9	27.1	23.3	-84.91	-126.2	594.6	881.4	834.5	46.92	18.783	
7,600.0	6,955.1	7,449.3	6,871.2	28.7	25.5	-84.54	-126.5	694.4	881.9	830.8	51.09	17.262	
7,700.0	6,954.1	7,549.3	6,869.5	30.6	27.8	-84.50	-126.9	794.4	881.9	826.4	55.56	15.873	
7,800.0	6,953.1	7,649.3	6,867.8	32.6	30.1	-84.45	-127.3	894.4	882.0	821.8	60.23	14.645	
7,900.0	6,952.0	7,749.3	6,866.1	34.8	32.6	-84.41	-127.7	994.4	882.1	817.0	65.04	13.563	
8,000.0	6,951.0	7,849.3	6,864.4	37.1	35.1	-84.36	-128.1	1,094.4	882.2	812.2	69.96	12.609	
8,100.0	6,950.0	7,949.3	6,862.6	39.5	37.6	-84.32	-128.5	1,194.4	882.2	807.3	74.98	11.766	
8,200.0	6,949.0	8,049.3	6,860.9	41.9	40.2	-84.27	-128.9	1,294.3	882.3	802.2	80.07	11.019	
8,300.0	6,948.0	8,149.3	6,859.2	44.4	42.8	-84.22	-129.3	1,394.3	882.4	797.2	85.22	10.354	
8,400.0	6,947.0	8,249.3	6,857.5	46.9	45.5	-84.18	-129.7	1,494.3	882.5	792.0	90.43	9.759	
8,500.0	6,946.0	8,349.3	6,855.8	49.5	48.1	-84.13	-130.1	1,594.3	882.5	786.9	95.67	9.224	
8,600.0	6,945.0	8,449.3	6,854.1	52.0	50.8	-84.09	-130.4	1,694.3	882.6	781.6	100.95	8.743	
8,700.0	6,944.0	8,549.2	6,852.4	54.7	53.5	-84.04	-130.8	1,794.2	882.7	776.4	106.26	8.306	
8,800.0	6,942.9	8,649.2	6,850.7	57.3	56.2	-84.00	-131.2	1,894.2	882.8	771.2	111.60	7.910	
8,900.0	6,941.9	8,749.2	6,849.0	59.9	58.9	-83.95	-131.6	1,994.2	882.8	765.9	116.96	7.548	
9,000.0	6,940.9	8,849.2	6,847.2	62.6	61.6	-83.91	-132.0	2,094.2	882.9	760.6	122.33	7.217	
9,100.0	6,939.9	8,949.2	6,845.5	65.2	64.3	-83.86	-132.4	2,194.2	883.0	755.3	127.73	6.913	
9,200.0	6,938.9	9,049.2	6,843.8	67.9	67.0	-83.82	-132.8	2,294.2	883.1	749.9	133.13	6.633	
9,300.0	6,937.9	9,149.2	6,842.1	70.6	69.8	-83.77	-133.2	2,394.1	883.1	744.6	138.55	6.374	
9,400.0	6,936.9	9,249.2	6,840.4	73.3	72.5	-83.73	-133.6	2,494.1	883.2	739.2	143.98	6.134	
9,500.0	6,935.9	9,349.2	6,838.7	76.0	75.3	-83.68	-134.0	2,594.1	883.3	733.9	149.42	5.911	
9,600.0	6,934.9	9,449.2	6,837.0	78.7	78.0	-83.64	-134.3	2,694.1	883.4	728.5	154.87	5.704	
9,700.0	6,933.9	9,549.2	6,835.3	81.5	80.8	-83.59	-134.7	2,794.1	883.5	723.1	160.33	5.510	
9,800.0	6,932.8	9,649.2	6,833.6	84.2	83.5	-83.55	-135.1	2,894.1	883.5	717.8	165.79	5.329	
9,900.0	6,931.8	9,749.2	6,831.9	86.9	86.3	-83.50	-135.5	2,994.0	883.6	712.4	171.26	5.160	
10,000.0	6,930.8	9,849.2	6,830.1	89.7	89.0	-83.46	-135.9	3,094.0	883.7	707.0	176.73	5.000	
10,100.0	6,929.8	9,949.2	6,828.4	92.4	91.8	-83.41	-136.3	3,194.0	883.8	701.6	182.21	4.850	
10,200.0	6,928.8	10,049.2	6,826.7	95.2	94.6	-83.37	-136.7	3,294.0	883.9	696.2	187.70	4.709	
10,300.0	6,927.8	10,149.2	6,825.0	97.9	97.3	-83.32	-137.1	3,394.0	884.0	690.8	193.18	4.576	
10,400.0	6,926.8	10,249.2	6,823.3	100.7	100.1	-83.28	-137.5	3,493.9	884.0	685.4	198.67	4.450	
10,500.0	6,925.8	10,349.2	6,821.6	103.4	102.9	-83.23	-137.9	3,593.9	884.1	680.0	204.17	4.330	
10,600.0	6,924.8	10,449.2	6,819.9	106.2	105.7	-83.19	-138.3	3,693.9	884.2	674.6	209.66	4.217	
10,700.0	6,923.7	10,549.2	6,818.2	108.9	108.5	-83.14	-138.6	3,793.9	884.3	669.1	215.16	4.110	
10,800.0	6,922.7	10,649.2	6,816.5	111.7	111.2	-83.10	-139.0	3,893.9	884.4	663.7	220.66	4.008	
10,900.0	6,921.7	10,749.2	6,814.8	114.5	114.0	-83.05	-139.4	3,993.9	884.5	658.3	226.16	3.911	
11,000.0	6,920.7	10,849.2	6,813.0	117.2	116.8	-83.01	-139.8	4,093.8	884.6	652.9	231.66	3.818	
11,100.0	6,919.7	10,949.2	6,811.3	120.0	119.6	-82.96	-140.2	4,193.8	884.7	647.5	237.17	3.730	
11,200.0	6,918.7	11,049.2	6,809.6	122.8	122.4	-82.92	-140.6	4,293.8	884.7	642.1	242.67	3.646	
11,300.0	6,917.7	11,149.2	6,807.9	125.5	125.2	-82.87	-141.0	4,393.8	884.8	636.7	248.18	3.565	
11,400.0	6,916.7	11,249.2	6,806.2	128.3	127.9	-82.83	-141.4	4,493.8	884.9	631.2	253.69	3.488	
11,466.4	6,916.0	11,315.5	6,805.1	130.2	129.8	-82.80	-141.6	4,560.1	885.0	627.6	257.35	3.439	SF

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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-212 - 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	32.8	0.0	32.8				
100.0	100.0	100.0	100.0	0.1	0.1	0.00	32.8	0.0	32.8	32.6	0.22	145.858	
200.0	200.0	200.0	200.0	0.3	0.3	0.00	32.8	0.0	32.8	32.1	0.67	48.619	CC, ES
300.0	300.0	300.0	300.0	0.5	0.6	169.52	32.8	0.0	34.5	33.4	1.11	31.142	
400.0	399.8	399.8	399.8	0.8	0.8	170.88	32.8	0.0	39.7	38.1	1.54	25.715	
500.0	499.5	499.5	499.5	1.0	1.0	172.50	32.8	0.0	48.3	46.3	1.99	24.270	
600.0	598.7	598.7	598.7	1.3	1.2	173.98	32.8	0.0	60.4	57.9	2.44	24.718	
700.0	697.5	697.5	697.5	1.6	1.5	175.19	32.8	0.0	76.0	73.1	2.90	26.187	
800.0	795.7	795.7	795.7	2.0	1.7	176.13	32.8	0.0	94.6	91.2	3.36	28.161	
900.0	893.9	893.9	893.9	2.4	1.9	176.78	32.8	0.0	113.6	109.8	3.82	29.761	
1,000.0	992.0	992.0	992.0	2.8	2.1	177.24	32.8	0.0	132.6	128.4	4.28	30.988	
1,100.0	1,090.2	1,095.2	1,095.1	3.2	2.3	177.51	31.3	-0.5	150.2	145.5	4.73	31.778	
1,200.0	1,188.4	1,199.9	1,199.7	3.6	2.5	177.54	26.1	-2.0	164.3	159.1	5.15	31.869	
1,300.0	1,286.5	1,305.5	1,304.9	4.1	2.7	177.38	17.2	-4.7	174.7	169.1	5.60	31.207	
1,400.0	1,384.7	1,411.8	1,410.4	4.5	2.9	177.05	4.5	-8.6	181.5	175.4	6.06	29.960	
1,500.0	1,482.9	1,513.2	1,510.6	4.9	3.2	176.63	-10.1	-13.1	185.7	179.2	6.52	28.472	
1,600.0	1,581.0	1,613.1	1,609.4	5.3	3.5	176.24	-24.6	-17.5	189.8	182.9	6.99	27.145	
1,700.0	1,679.2	1,713.0	1,708.1	5.8	3.8	175.85	-39.1	-21.9	194.0	186.5	7.47	25.961	
1,800.0	1,777.4	1,812.9	1,806.9	6.2	4.1	175.49	-53.5	-26.3	198.2	190.2	7.96	24.900	
1,900.0	1,875.5	1,912.8	1,905.6	6.6	4.4	175.14	-68.0	-30.7	202.3	193.9	8.45	23.955	
2,000.0	1,973.7	2,012.7	2,004.4	7.0	4.7	174.80	-82.5	-35.1	206.5	197.6	8.94	23.097	
2,100.0	2,071.8	2,112.6	2,103.1	7.5	5.0	174.48	-97.0	-39.5	210.7	201.3	9.44	22.321	
2,200.0	2,170.0	2,212.6	2,201.9	7.9	5.4	174.16	-111.5	-44.0	214.9	204.9	9.94	21.615	
2,300.0	2,268.2	2,312.5	2,300.7	8.3	5.7	173.87	-126.0	-48.4	219.1	208.6	10.45	20.972	
2,400.0	2,366.3	2,412.4	2,399.4	8.8	6.0	173.58	-140.4	-52.8	223.3	212.3	10.95	20.383	
2,500.0	2,464.5	2,512.3	2,498.2	9.2	6.4	173.30	-154.9	-57.2	227.5	216.0	11.46	19.842	
2,600.0	2,562.7	2,612.2	2,596.9	9.6	6.7	173.03	-169.4	-61.6	231.7	219.7	11.98	19.344	
2,700.0	2,660.8	2,712.1	2,695.7	10.0	7.1	172.78	-183.9	-66.0	235.9	223.4	12.49	18.884	
2,800.0	2,759.0	2,812.0	2,794.4	10.5	7.4	172.53	-198.4	-70.4	240.1	227.1	13.01	18.458	
2,900.0	2,857.2	2,911.9	2,893.2	10.9	7.8	172.29	-212.9	-74.8	244.4	230.8	13.53	18.062	
3,000.0	2,955.3	3,011.8	2,991.9	11.3	8.1	172.06	-227.4	-79.3	248.6	234.5	14.05	17.693	
3,100.0	3,053.5	3,111.7	3,090.7	11.8	8.5	171.83	-241.8	-83.7	252.8	238.3	14.57	17.349	
3,200.0	3,151.6	3,211.6	3,189.4	12.2	8.8	171.62	-256.3	-88.1	257.1	242.0	15.10	17.028	
3,300.0	3,249.8	3,311.5	3,288.2	12.6	9.2	171.41	-270.8	-92.5	261.3	245.7	15.62	16.727	
3,400.0	3,348.0	3,411.4	3,386.9	13.0	9.6	171.20	-285.3	-96.9	265.6	249.4	16.15	16.444	
3,500.0	3,446.1	3,511.3	3,485.7	13.5	9.9	171.01	-299.8	-101.3	269.8	253.1	16.68	16.177	
3,600.0	3,544.3	3,611.2	3,584.4	13.9	10.3	170.82	-314.3	-105.7	274.0	256.8	17.21	15.927	
3,700.0	3,642.5	3,711.1	3,683.2	14.3	10.6	170.63	-328.8	-110.2	278.3	260.6	17.74	15.690	
3,800.0	3,740.6	3,811.0	3,781.9	14.8	11.0	170.45	-343.2	-114.6	282.6	264.3	18.27	15.466	
3,900.0	3,838.8	3,910.9	3,880.7	15.2	11.4	170.28	-357.7	-119.0	286.8	268.0	18.80	15.255	
4,000.0	3,937.0	4,010.9	3,979.4	15.6	11.7	170.11	-372.2	-123.4	291.1	271.7	19.34	15.054	
4,100.0	4,035.1	4,110.8	4,078.2	16.1	12.1	169.95	-386.7	-127.8	295.3	275.5	19.87	14.864	
4,200.0	4,133.3	4,210.7	4,176.9	16.5	12.5	169.79	-401.2	-132.2	299.6	279.2	20.41	14.682	
4,300.0	4,231.5	4,310.6	4,275.7	16.9	12.8	169.63	-415.7	-136.6	303.9	282.9	20.94	14.510	
4,400.0	4,329.6	4,410.5	4,374.4	17.3	13.2	169.48	-430.1	-141.0	308.2	286.7	21.48	14.346	
4,500.0	4,427.8	4,510.4	4,473.2	17.8	13.5	169.34	-444.6	-145.5	312.4	290.4	22.02	14.189	
4,600.0	4,525.9	4,610.3	4,571.9	18.2	13.9	169.19	-459.1	-149.9	316.7	294.1	22.56	14.040	
4,700.0	4,624.1	4,710.2	4,670.7	18.6	14.3	169.06	-473.6	-154.3	321.0	297.9	23.10	13.897	
4,800.0	4,722.3	4,810.1	4,769.4	19.1	14.6	168.92	-488.1	-158.7	325.3	301.6	23.64	13.760	
4,900.0	4,820.4	4,910.0	4,868.2	19.5	15.0	168.79	-502.6	-163.1	329.5	305.4	24.18	13.630	
5,000.0	4,918.6	5,009.9	4,966.9	19.9	15.4	168.66	-517.1	-167.5	333.8	309.1	24.72	13.504	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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-212 - 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	5,016.8	5,109.8	5,065.7	20.4	15.7	168.54	-531.5	-171.9	338.1	312.8	25.26	13.384	
5,200.0	5,114.9	5,209.7	5,164.4	20.8	16.1	168.42	-546.0	-176.4	342.4	316.6	25.81	13.268	
5,300.0	5,213.1	5,309.6	5,263.2	21.2	16.5	168.30	-560.5	-180.8	346.7	320.3	26.35	13.157	
5,400.0	5,311.3	5,409.5	5,361.9	21.6	16.8	168.18	-575.0	-185.2	351.0	324.1	26.89	13.051	
5,500.0	5,409.4	5,500.0	5,451.6	22.1	17.1	168.14	-586.9	-188.8	356.6	329.2	27.38	13.025	
5,600.0	5,507.7	5,588.3	5,539.3	22.5	17.3	168.24	-595.8	-191.5	364.7	336.9	27.81	13.113	
5,700.0	5,606.5	5,677.0	5,627.8	22.7	17.5	168.39	-602.3	-193.5	372.7	344.5	28.18	13.228	
5,800.0	5,705.7	5,765.6	5,716.3	22.9	17.6	168.57	-606.0	-194.6	380.2	351.7	28.49	13.348	
5,900.0	5,805.4	5,854.7	5,805.4	23.1	17.8	168.76	-607.2	-195.0	387.3	358.5	28.76	13.468	
6,000.0	5,905.2	5,954.6	5,905.2	23.3	17.9	168.93	-607.2	-195.0	392.2	363.2	29.00	13.524	
6,100.0	6,005.2	6,054.5	6,005.2	23.4	18.0	0.00	-607.2	-195.0	393.8	353.0	40.81	9.650	
6,155.3	6,060.5	6,109.9	6,060.5	23.4	18.1	0.23	-607.2	-193.4	393.8	352.8	40.96	9.615	
6,200.0	6,105.2	6,154.3	6,104.7	23.5	18.1	0.83	-607.2	-189.3	393.8	352.7	41.11	9.579	
6,300.0	6,205.2	6,251.0	6,199.7	23.6	18.2	-86.83	-607.3	-171.5	394.4	364.9	29.46	13.386	
6,400.0	6,304.7	6,344.7	6,288.9	23.7	18.3	-83.83	-607.4	-142.9	396.2	366.7	29.45	13.451	
6,500.0	6,402.0	6,436.2	6,372.0	23.7	18.3	-80.98	-607.6	-104.7	398.9	369.4	29.51	13.516	
6,600.0	6,495.6	6,525.8	6,448.3	23.8	18.4	-78.32	-607.8	-57.9	402.4	372.7	29.68	13.555	
6,700.0	6,583.8	6,613.7	6,517.4	23.8	18.4	-75.90	-608.0	-3.6	406.3	376.4	29.99	13.551	
6,800.0	6,665.1	6,700.0	6,578.7	23.9	18.5	-73.73	-608.2	57.1	410.5	380.1	30.44	13.488	
6,900.0	6,738.1	6,785.4	6,632.3	23.9	18.6	-71.83	-608.5	123.5	414.7	383.6	31.11	13.333	
7,000.0	6,801.6	6,869.6	6,677.5	24.0	18.8	-70.23	-608.8	194.5	418.7	386.7	32.03	13.071	
7,100.0	6,854.5	6,950.0	6,713.1	24.2	19.1	-68.95	-609.1	266.5	422.2	389.0	33.23	12.707	
7,200.0	6,895.9	7,035.7	6,742.6	24.5	19.9	-67.90	-609.4	347.0	425.0	390.2	34.87	12.189	
7,300.0	6,925.0	7,118.0	6,762.2	25.0	21.0	-67.20	-609.7	426.9	427.1	390.3	36.87	11.585	
7,400.0	6,941.4	7,200.0	6,773.1	25.9	22.4	-66.79	-610.0	508.1	428.3	389.1	39.27	10.907	
7,500.0	6,951.5	7,284.1	6,775.3	27.1	24.0	-65.98	-610.4	592.2	431.3	389.0	42.30	10.195	
7,600.0	6,955.1	7,384.0	6,774.2	28.7	26.1	-65.32	-610.8	692.0	433.2	387.7	45.56	9.508	
7,700.0	6,954.1	7,484.0	6,773.1	30.6	28.3	-65.31	-611.2	792.0	433.3	383.6	49.66	8.724	
7,800.0	6,953.1	7,584.0	6,772.0	32.6	30.6	-65.30	-611.6	892.0	433.3	379.3	53.95	8.031	
7,900.0	6,952.0	7,684.0	6,770.9	34.8	33.0	-65.28	-611.9	992.0	433.3	375.0	58.38	7.423	
8,000.0	6,951.0	7,784.0	6,769.8	37.1	35.5	-65.27	-612.3	1,092.0	433.4	370.5	62.91	6.889	
8,100.0	6,950.0	7,884.0	6,768.6	39.5	38.0	-65.26	-612.7	1,192.0	433.4	365.9	67.53	6.418	
8,200.0	6,949.0	7,984.0	6,767.5	41.9	40.5	-65.25	-613.1	1,292.0	433.5	361.2	72.22	6.002	
8,300.0	6,948.0	8,084.0	6,766.4	44.4	43.1	-65.23	-613.5	1,392.0	433.5	356.5	76.96	5.632	
8,400.0	6,947.0	8,184.0	6,765.3	46.9	45.7	-65.22	-613.9	1,491.9	433.5	351.8	81.76	5.303	
8,500.0	6,946.0	8,284.0	6,764.2	49.5	48.3	-65.21	-614.3	1,591.9	433.6	347.0	86.58	5.008	
8,600.0	6,945.0	8,384.0	6,763.1	52.0	51.0	-65.19	-614.7	1,691.9	433.6	342.2	91.45	4.742	
8,700.0	6,944.0	8,484.0	6,761.9	54.7	53.6	-65.18	-615.1	1,791.9	433.7	337.3	96.33	4.502	
8,800.0	6,942.9	8,584.0	6,760.8	57.3	56.3	-65.17	-615.5	1,891.9	433.7	332.4	101.25	4.284	
8,900.0	6,941.9	8,684.0	6,759.7	59.9	59.0	-65.15	-615.9	1,991.9	433.7	327.6	106.18	4.085	
9,000.0	6,940.9	8,784.0	6,758.6	62.6	61.7	-65.14	-616.3	2,091.9	433.8	322.7	111.13	3.903	
9,100.0	6,939.9	8,884.0	6,757.5	65.2	64.4	-65.13	-616.7	2,191.9	433.8	317.7	116.09	3.737	
9,200.0	6,938.9	8,984.0	6,756.4	67.9	67.1	-65.12	-617.1	2,291.9	433.9	312.8	121.06	3.584	
9,300.0	6,937.9	9,084.0	6,755.2	70.6	69.9	-65.10	-617.5	2,391.9	433.9	307.8	126.05	3.442	
9,400.0	6,936.9	9,184.0	6,754.1	73.3	72.6	-65.09	-617.9	2,491.9	433.9	302.9	131.05	3.311	
9,500.0	6,935.9	9,284.0	6,753.0	76.0	75.3	-65.08	-618.3	2,591.9	434.0	297.9	136.05	3.190	
9,600.0	6,934.9	9,384.0	6,751.9	78.7	78.1	-65.06	-618.7	2,691.9	434.0	293.0	141.06	3.077	
9,700.0	6,933.9	9,484.0	6,750.8	81.5	80.8	-65.05	-619.1	2,791.9	434.1	288.0	146.08	2.971	
9,800.0	6,932.8	9,584.0	6,749.6	84.2	83.6	-65.04	-619.5	2,891.8	434.1	283.0	151.11	2.873	
9,900.0	6,931.8	9,684.0	6,748.5	86.9	86.3	-65.02	-619.9	2,991.8	434.1	278.0	156.14	2.781	
10,000.0	6,930.8	9,784.0	6,747.4	89.7	89.1	-65.01	-620.3	3,091.8	434.2	273.0	161.17	2.694	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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-212 - Wellbore #1 - Plan #1 (2-25-13)

Offset Site Error: 0.0 ft

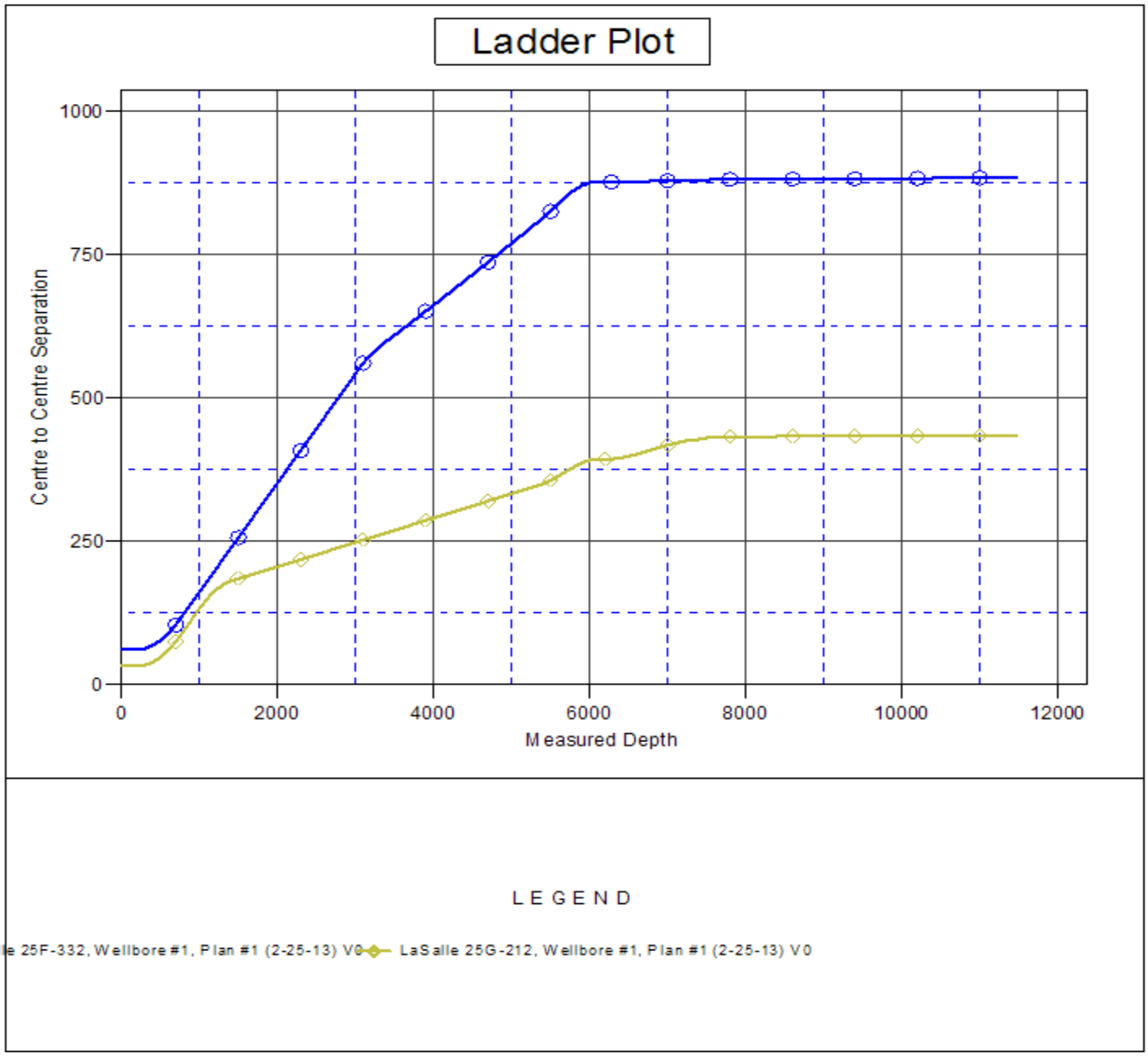
Survey Program: 0-MWD

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	6,929.8	9,884.0	6,746.3	92.4	91.8	-65.00	-620.7	3,191.8	434.2	268.0	166.21	2.612	
10,200.0	6,928.8	9,984.0	6,745.2	95.2	94.6	-64.99	-621.1	3,291.8	434.3	263.0	171.25	2.536	
10,300.0	6,927.8	10,084.0	6,744.1	97.9	97.4	-64.97	-621.5	3,391.8	434.3	258.0	176.30	2.463	
10,400.0	6,926.8	10,184.0	6,742.9	100.7	100.1	-64.96	-621.9	3,491.8	434.3	253.0	181.35	2.395	
10,500.0	6,925.8	10,284.0	6,741.8	103.4	102.9	-64.95	-622.3	3,591.8	434.4	248.0	186.40	2.330	
10,600.0	6,924.8	10,384.0	6,740.7	106.2	105.7	-64.93	-622.7	3,691.8	434.4	243.0	191.45	2.269	
10,700.0	6,923.7	10,484.0	6,739.6	108.9	108.5	-64.92	-623.1	3,791.8	434.5	238.0	196.50	2.211	
10,800.0	6,922.7	10,584.0	6,738.5	111.7	111.2	-64.91	-623.5	3,891.8	434.5	232.9	201.56	2.156	
10,900.0	6,921.7	10,684.0	6,737.4	114.5	114.0	-64.89	-623.9	3,991.8	434.5	227.9	206.62	2.103	
11,000.0	6,920.7	10,784.0	6,736.2	117.2	116.8	-64.88	-624.3	4,091.8	434.6	222.9	211.68	2.053	
11,100.0	6,919.7	10,884.0	6,735.1	120.0	119.6	-64.87	-624.7	4,191.8	434.6	217.9	216.74	2.005	
11,200.0	6,918.7	10,984.0	6,734.0	122.8	122.4	-64.86	-625.1	4,291.7	434.7	212.9	221.80	1.960	
11,300.0	6,917.7	11,084.0	6,732.9	125.5	125.1	-64.84	-625.5	4,391.7	434.7	207.8	226.87	1.916	
11,400.0	6,916.7	11,184.0	6,731.8	128.3	127.9	-64.83	-625.9	4,491.7	434.7	202.8	231.93	1.874	
11,466.4	6,916.0	11,250.4	6,731.0	130.2	129.8	-64.82	-626.2	4,558.1	434.8	199.5	235.29	1.848	SF

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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-402
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°



Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	**Local Co-ordinate Reference:**	Well LaSalle 25G-402
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-402	**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-402
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°