

30-015-35120-00-00

DUKE 4 FEDERAL No. 002E

Company Name: PARALLEL PETROLEUM CORPORATION**Location:** Sec: 4 T: 19S R: 21E Spot:**String Information**

Lat: 32.6839429205772 Long: -104.802473792644

Property Name: DUKE 4 FEDERAL**County Name:** Eddy

S

S

Cement Information**Perforation Information**

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Sqz
0	0			

Formation Information

St Code	Formation	Depth
Pgl	Glorieta	1814
Pytu	Tubb	2730
Pabo	Abo	3368
Pwc	Wolfcamp	4240

Hole: Unknown

TD:

TVD: 4800

PBTD:

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

State of New Mexico
Energy, Minerals & Natural Resources

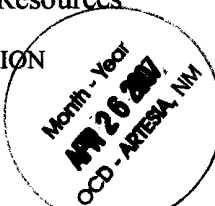
OIL CONSERVATION DIVISION

1220 S. St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised June 10, 2003

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT



I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address PARALLEL PETROLEUM CORPORATION 1004 N BIG SPRING, SUITE 400 MIDLAND, TX 79701		² OGRID Number 230387
⁴ API Number 30-0 15-35120	⁵ Pool Name Four mile Draw; WOLF CAMP, SW	⁶ Pool Code 97553
⁷ Property Code 303087	⁸ Property Name DUKE 4 FEDERAL	⁹ Well Number 2

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	4	19S	21E		818	SOUTH	459	EAST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	4	19S	21E		913	SOUTH	700	WEST	EDDY
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				
		02-13-2007							

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
36785	DCP MIDSTREAM LP 3000 N 'A', BLDG 7 MIDLAND, TX 79705		G	SEC 4, T19S, R21E

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, MC
01-07-2007	02-13-2007	MD8224;TVD 4196	MD:81810;TVD4196	4570-8112 MD	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
11	8.625	1518	1000 SX		
11	5.5	8224	1200 SX		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
	02-13-20007	02-13-2007	24 HOUR		110
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
2"	0	159	830		

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kaye McCormick		OIL CONSERVATION DIVISION	
Printed name: KAYE MC CORMICK		Approved by: BRYAN G. ARANT	
Title: SR PROD & REG TECH		Title: DISTRICT II GEOLOGIST	
Email: kmccormick@pl11.com		Approval Date: APR 26 2007	
Date: 04-24-2007	Phone: 432-685-6563		

Other form - orig to PLM
CC: C-104

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

NM NM 108921

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Otherb. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

DUKE 4 FEDERAL

9. API Well No.

30-015-35120

10. Field and Pool, or Exploratory

WOLF CAMP

11. Sec., T., R., M., or Block and
Survey or Area

SEC. 4, TS 19S, R21E

12. County or Parish

13. State

EDDY

NM

17. Elevations (DF, RKB, RT, GL)*

GR: 4356

2. Name of Operator

PARALLEL PETROLEUM CORPORATION

3. Address

1004 N BIG SPRING, SUITE 400, MIDLAND, TX 79701

3a. Phone No. (include area code)

432-685-6563

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 818 FSL & 459 FEL

At top prod. interval reported below 848 FSL & 708 FEL (C-102 DATED 2-06-07 COPY
ATTACHED)

At total depth 913 FSL & 700 FWL

14. Date Spudded

01-07-2007

15. Date T.D. Reached

01-25-2007

16. Date Completed

☐ D & A☒ Ready to Prod.

02-13-2007

18. Total Depth: MD

8224

19. Plug Back T.D.: MD

8181

20. Depth Bridge Plug Set: MD

TVD

4196

TVD

4196

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

(MAILED 2-6-07)

PLATFORM EXPRESS THREE DETECTOR LITHO-DENSITY, CN/HNGS

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run ☒ No ☐ Yes (Submit report)Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
11	8.625J55	24	0	1518		1000 SX		900 TS	
7.875	5.5/I80	17	0	8224		1200 SX		800 TS	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8	4438							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLF CAMP:	TVD: 4247	4195	4570-5193	0.42	36	OPEN
B)	MD: 4570	8112	5430-6063	0.42	36	OPEN
C)			6440-7123	0.42	36	OPEN
D)			7310-8112	0.42	36	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
4570-8112	FRAC W/15% NEFE ACID, SLICK WATER, 30/70 & 20/40 SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02-13-07	02-13-07	24	→	0	830	159		.689	FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
2"		110	→	0	830	159		PRODUCING	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			→						

16				17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well as this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the district.</i> <i>Kaye McCormick</i> 02-06-07 Signature Date KAYE MC CORMICK Printed Name
				18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey Signature and Seal of Professional Surveyor:

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PARALLEL PETROLEUM

Location: PATRIOT #1, EDDY COUNTY, NEW MEXICO

Lease: DUKE FED Well: #2, 4-1/2" DRILLPIPE

Job Number: MD0107G_105

Run Date: 1/15/2007 3:59:19 PM

Surveyor: AJ EATON

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.685360 deg. N Longitude: 104.792600 deg. W

Azimuth Correction:

Gyro: 0.25000 deg East to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



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Location: PATRIOT #1, EDDY COUNTY, NEW MEXICO

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Job Number: MD0107G_105

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 4468 FT. RATE GYROSCOPIC MULTISHOT DROP SURVEY RUN INSIDE 4-1/2" DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATRIOT #1 R.K.B.						

100.00	0.12	228.54	0.12	100.00	0.1 228.5	0.07 S 0.08 W
200.00	0.08	354.40	0.18	200.00	0.2 248.9	0.06 S 0.16 W
300.00	0.35	353.25	0.26	300.00	0.4 327.1	0.31 N 0.20 W
400.00	0.46	4.57	0.13	400.00	1.0 348.5	1.02 N 0.21 W
500.00	0.39	49.33	0.33	499.99	1.6 2.9	1.64 N 0.08 E
600.00	1.12	15.61	0.82	599.99	2.9 12.2	2.80 N 0.60 E
700.00	2.63	62.40	2.04	699.93	5.6 31.2	4.80 N 2.90 E
800.00	3.23	46.60	1.00	799.80	10.5 41.8	7.80 N 6.98 E
900.00	3.19	38.83	0.44	899.65	16.1 42.2	11.90 N 10.78 E
1000.00	2.83	99.60	3.06	999.53	20.3 47.6	13.66 N 14.96 E
1100.00	4.58	94.52	1.77	1099.32	25.0 58.8	12.93 N 21.37 E
1200.00	4.81	81.82	1.06	1198.99	32.3 65.9	13.21 N 29.50 E
1300.00	3.11	51.52	2.64	1298.76	39.0 66.6	15.50 N 35.77 E
1400.00	3.11	60.75	0.50	1398.61	44.3 65.3	18.51 N 40.26 E
1481.39	1.85	4.93	3.16	1479.93	47.2 63.7	20.90 N 42.29 E
1500.00	1.86	9.51	0.80	1498.53	47.5 63.1	21.49 N 42.37 E
1600.00	1.23	14.62	0.65	1598.50	49.2 60.6	24.13 N 42.91 E
1672.01	1.46	52.23	1.24	1670.49	50.7 59.9	25.44 N 43.83 E
1767.32	1.33	74.56	0.58	1765.77	52.9 60.0	26.48 N 45.85 E

A Gyrodata Directional Survey

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Lease: DUKE FED Well: #2, 4-1/2" DRILLPIPE

Job Number: MD0107G_105

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1862.63	0.96	72.94	0.38	1861.06	54.8 60.5	27.01 N 47.68 E
1957.94	0.78	64.11	0.24	1956.36	56.2 60.7	27.53 N 49.03 E
2053.25	0.54	72.78	0.27	2051.66	57.3 60.8	27.94 N 50.04 E
2148.56	0.39	90.06	0.22	2146.97	58.0 61.1	28.07 N 50.79 E
2243.87	0.29	100.16	0.12	2242.28	58.5 61.4	28.03 N 51.35 E
2339.18	0.19	148.53	0.23	2337.59	58.7 61.7	27.85 N 51.67 E
2434.49	0.19	161.41	0.05	2432.90	58.7 62.0	27.56 N 51.81 E
2529.80	0.15	159.23	0.05	2528.21	58.6 62.3	27.30 N 51.90 E
2625.11	0.13	172.49	0.04	2623.52	58.6 62.5	27.07 N 51.96 E
2720.42	0.21	78.43	0.26	2718.83	58.7 62.6	27.00 N 52.14 E
2815.73	0.16	65.84	0.06	2814.14	59.0 62.7	27.09 N 52.43 E
2911.04	0.09	9.09	0.14	2909.44	59.2 62.6	27.21 N 52.56 E
3006.35	0.26	339.69	0.20	3004.75	59.3 62.4	27.49 N 52.50 E
3101.66	0.14	337.12	0.13	3100.06	59.3 62.1	27.79 N 52.38 E
3196.97	0.26	93.99	0.36	3195.37	59.5 62.1	27.88 N 52.55 E
3292.28	0.48	99.46	0.24	3290.68	60.0 62.4	27.80 N 53.16 E
3387.59	0.58	119.92	0.22	3385.99	60.6 63.0	27.49 N 53.97 E
3482.90	0.30	155.12	0.40	3481.29	60.8 63.6	27.02 N 54.50 E
3578.21	0.16	197.83	0.22	3576.60	60.7 63.9	26.67 N 54.56 E
3673.52	0.06	74.10	0.20	3671.91	60.7 64.0	26.56 N 54.57 E
3768.83	0.43	56.24	0.39	3767.22	61.1 64.0	26.78 N 54.91 E
3864.14	0.64	44.38	0.24	3862.53	61.9 63.8	27.35 N 55.58 E
3959.45	0.68	47.40	0.06	3957.83	63.0 63.5	28.12 N 56.37 E

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PARALLEL PETROLEUM

Location: PATRIOT #1, EDDY COUNTY, NEW MEXICO

Lease: DUKE FED Well: #2, 4-1/2" DRILLPIPE

Job Number: MD0107G_105

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4054.76	0.67	0.57	0.56	4053.14	63.8 62.9	29.06 N 56.79 E
4150.07	0.56	329.56	0.36	4148.44	64.0 62.1	30.01 N 56.56 E
4245.38	0.78	339.03	0.25	4243.74	64.1 61.1	31.01 N 56.10 E
4340.69	0.64	338.13	0.14	4339.05	64.3 60.0	32.11 N 55.67 E
4436.00	0.84	288.90	0.67	4434.35	63.9 59.1	32.83 N 54.81 E
4468.00	0.95	281.24	0.51	4466.35	63.5 58.8	32.96 N 54.33 E

Final Station Closure: Distance: 63.55 ft Az: 58.75 deg.

SLB MWD Survey Survey Report

Report Date: January 26, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Parallel Petroleum	Vertical Section Azimuth: 270.240°
Field: NM, Eddy County (Parallel Petroleum)	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Parallel Pet. Duke 4 Federal #2 / Parallel Pet. Duke 4 Federal #2	TVD Reference Datum: RKB
Well: Duke 4 Federal #2	TVD Reference Elevation: 4368.0 ft relative to
Borehole: Horizontal	Sea Bed / Ground Level Elevation: 4356.000 ft relative to
UWVAPs:	Magnetic Declination: 8.726°
Survey Name / Date: SLB MWD SVY Duke 4 Fed 21 / January 19, 2007	Total Field Strength: 49225.287 nT
Tort / AHD / DDI / ERD ratio: 163.847° / 4250.29 ft / 6.130 / 1.001	Magnetic Dip: 60.520°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: January 19, 2007
Location Lat/Long: N 32 41 3.610, W 104 47 29.920	Magnetic Declination Model: BGGM 2006
Location Grid N/E Y/X: N 612977.092 ftUS, E 358990.663 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.24749849°	Total Corr Mag North -> Grid North: +8.973°
Grid Scale Factor: 0.99993186	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In / Gyro SVY	3768.80	0.43	56.24	3767.19	-54.80	26.78	54.91	61.09	64.00	0.39	54.78M
	3772.00	0.90	54.78	3770.39	-54.83	26.80	54.94	61.13	64.00	14.70	330.57M
	3804.00	0.71	330.57	3802.39	-54.94	27.12	55.05	61.37	63.78	3.40	280.61M
	3835.00	4.95	280.61	3833.35	-53.52	27.53	53.64	60.29	62.83	14.60	274.90M
	3867.00	10.06	274.90	3865.06	-49.38	28.02	49.50	56.88	60.48	16.12	4.99L
	3899.00	14.81	273.28	3896.30	-42.50	28.50	42.62	51.27	56.24	14.88	0.95R
	3931.00	18.70	273.48	3926.94	-33.29	29.04	33.42	44.27	49.01	12.16	2.19L
	3963.00	22.87	273.07	3956.85	-21.96	29.69	22.08	37.00	36.64	13.04	HS
	3994.00	27.33	273.07	3984.92	-8.83	30.39	8.95	31.68	16.42	14.39	19.36L
	4026.00	31.88	270.07	4012.73	6.97	30.79	-6.84	31.54	347.48	14.95	2.47L
	4058.00	35.97	269.77	4039.28	24.82	30.77	-24.70	39.45	321.25	12.79	9.93L
	4090.00	39.07	268.91	4064.66	44.31	30.54	-44.18	53.71	304.65	9.82	12.21R
	4121.00	43.33	270.25	4087.98	64.72	30.40	-64.59	71.39	295.20	14.03	3.41R
	4153.00	47.94	270.62	4110.35	87.59	30.57	-87.46	92.65	289.27	14.43	4.74R
	4185.00	52.54	271.10	4130.81	112.18	30.95	-112.05	116.25	285.44	14.42	16.12L
	4217.00	54.66	270.35	4149.80	137.94	31.27	-137.81	141.31	282.78	6.89	12.24L
	4249.00	57.14	269.71	4167.73	164.43	31.28	-164.30	167.25	280.78	7.92	4.66L
	4280.00	61.57	269.30	4183.53	191.09	31.05	-190.97	193.47	279.23	14.34	3.77L
	4312.00	65.72	269.00	4197.73	219.76	30.62	-219.63	221.75	277.94	13.00	7.05L
	4344.00	68.89	268.58	4210.08	249.27	30.00	-249.14	250.94	276.87	9.98	5.91L
	4376.00	72.39	268.20	4220.69	279.44	29.15	-279.32	280.83	275.96	10.99	11.52L
	4407.00	76.50	267.34	4229.00	309.27	27.98	-309.15	310.41	275.17	13.52	2.35R
	4439.00	79.38	267.46	4235.68	340.52	26.57	-340.41	341.44	274.46	9.01	12.11R
	4471.00	81.27	267.87	4241.06	372.03	25.28	-371.93	372.78	273.89	6.04	8.09L
	4503.00	84.21	267.45	4245.10	403.74	23.98	-403.64	404.35	273.40	9.28	5.28L
	4535.00	88.11	267.09	4247.25	435.62	22.46	-435.53	436.10	272.95	12.24	1.93R
	4566.00	91.38	267.20	4247.38	466.57	20.92	-466.48	466.95	272.57	10.55	43.25L
	4630.00	91.55	267.04	4245.75	530.45	17.70	-530.38	530.68	271.91	0.36	145.89L
	4662.00	91.24	266.83	4244.97	562.39	15.99	-562.33	562.55	271.63	1.17	92.03R
	4757.00	91.17	268.79	4242.97	657.28	12.37	-657.23	657.35	271.08	2.06	118.93R
	4802.00	90.96	269.17	4242.13	702.26	11.56	-702.22	702.31	270.94	0.96	124.47L
	4884.00	90.50	268.50	4241.09	784.23	9.90	-784.19	784.25	270.72	0.99	123.88L
	4979.00	90.03	267.80	4240.65	879.16	6.83	-879.14	879.17	270.45	0.89	31.06R
	5075.00	91.69	268.80	4239.21	975.09	3.98	-975.08	975.09	270.23	2.02	88.55R
	5170.00	91.75	271.23	4236.36	1070.04	4.01	-1070.03	1070.04	270.21	2.56	87.61R
	5213.00	91.82	272.93	4235.02	1112.99	5.57	-1112.98	1112.99	270.29	3.95	99.73R
	5305.00	91.76	273.28	4232.14	1204.83	10.55	-1204.80	1204.85	270.50	0.39	40.23R
	5398.00	92.61	274.00	4228.60	1297.60	16.45	-1297.54	1297.65	270.73	1.20	121.37L
	5490.00	91.75	272.59	4225.10	1389.40	21.73	-1389.32	1389.49	270.90	1.79	112.89L
	5582.00	90.93	270.65	4222.95	1481.34	24.33	-1481.26	1481.46	270.94	2.29	86.82L
	5676.00	90.96	270.11	4221.40	1575.33	24.95	-1575.24	1575.44	270.91	0.58	151.78L
	5771.00	90.14	269.67	4220.49	1670.32	24.77	-1670.23	1670.42	270.85	0.98	87.27L
	5866.00	90.17	269.04	4220.23	1765.31	23.70	-1765.23	1765.39	270.77	0.66	32.82R

5962.00	90.48	269.24	4219.68	1861.29	22.26	-1861.22	1861.35	270.69	0.38	33.39R	
6057.00	91.89	270.17	4217.72	1956.26	21.77	-1956.19	1956.31	270.64	1.78	149.86L	
6152.00	91.58	269.99	4214.84	2051.22	21.91	-2051.15	2051.26	270.61	0.38	84.61R	
6248.00	91.76	271.91	4212.04	2147.17	23.50	-2147.09	2147.22	270.63	2.01	107.76L	
6343.00	91.34	270.60	4209.48	2242.12	25.58	-2242.03	2242.17	270.65	1.45	52.21L	
6439.00	91.65	270.20	4206.97	2338.08	26.25	-2337.99	2338.14	270.64	0.53	168.11R	
6534.00	90.89	270.36	4204.86	2433.06	26.71	-2432.97	2433.11	270.63	0.82	148.48L	
6629.00	90.14	269.90	4204.01	2528.05	26.93	-2527.96	2528.11	270.61	0.93	63.43R	
6725.00	90.17	269.96	4203.75	2624.05	26.81	-2623.96	2624.10	270.59	0.07	139.40R	
6820.00	90.03	270.08	4203.59	2719.05	26.84	-2718.96	2719.09	270.57	0.19	52.21R	
6915.00	91.65	272.17	4202.19	2814.02	28.71	-2813.93	2814.07	270.58	2.78	115.47L	
7011.00	90.00	268.71	4200.81	2909.99	29.44	-2909.89	2910.04	270.58	3.99	40.59R	
7042.00	91.82	270.27	4200.32	2940.98	29.17	-2940.89	2941.03	270.57	7.73	74.35R	
7074.00	91.89	270.52	4199.28	2972.97	29.39	-2972.87	2973.01	270.57	0.81	129.82L	
7104.00	91.69	270.28	4198.34	3002.95	29.60	-3002.85	3003.00	270.56	1.04	177.36R	
7138.00	90.17	270.35	4197.79	3036.95	29.78	-3036.85	3036.99	270.56	4.48	59.80R	
7233.00	92.03	273.55	4195.97	3131.87	33.01	-3131.76	3131.93	270.60	3.90	LS	
7329.00	90.76	273.55	4193.63	3227.68	38.96	-3227.54	3227.78	270.69	1.32	90.00L	
7424.00	90.76	273.01	4192.37	3322.54	44.39	-3322.38	3322.68	270.77	0.57	43.56R	
7520.00	91.17	273.40	4190.75	3418.39	49.76	-3418.22	3418.58	270.83	0.59	172.95R	
7615.00	89.31	273.63	4190.36	3513.23	55.58	-3513.03	3513.47	270.91	1.97	174.96L	
7710.00	88.97	273.60	4191.78	3608.06	61.57	-3607.83	3608.36	270.98	0.36	18.43R	
7805.00	89.21	273.68	4193.29	3702.88	67.60	-3702.63	3703.25	271.05	0.27	62.24L	
7900.00	89.31	273.49	4194.52	3797.71	73.54	-3797.44	3798.15	271.11	0.23	42.51R	
7995.00	89.55	273.71	4195.46	3892.54	79.51	-3892.24	3893.05	271.17	0.34	3.01L	
8090.00	89.93	273.69	4195.89	3987.37	85.64	-3987.04	3987.96	271.23	0.40	55.01R	
8147.00	90.21	274.09	4195.83	4044.25	89.50	-4043.91	4044.90	271.27	0.86	90.00R	
Proj. to TD.	8224.00	90.21	274.10	4195.54	4121.08	95.00	-4120.71	4121.81	271.32	0.01	—

Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00
12.00
3768.80

MD To (ft)

12.00
3768.80
8224.00

EOU Freq Survey Tool Type

Act-Stns SLB_CNSG+DPIPE-Depth Only
Act-Stns SLB_CNSG+DPIPE
Act-Stns SLB_UNKNOWN (default tool used)

Borehole -> Survey

Pilot Hole -> Duke 4 Fed #2 Gyro 0' to 4468'
Pilot Hole -> Duke 4 Fed #2 Gyro 0' to 4468'
Horizontal -> SLB MWD SVY Duke 4 Fed 21

*Italicized stations are NOT used in position calculations.