



Southern Business Unit

P. O. Box 3487
Houston, TX 77253-3487

5555 San Felipe Road
Houston, TX 77056-2799

Telephone: (713) 296-2096
FAX: (713) 499-6750

October 12, 2004

New Mexico Oil Conservation Division
Attn: Mr. Will Jones
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Amending PLC-140

Dear Mr. Jones:

Please amend the commingle order shown above as follows:

Include IB "32" State No. 6. This well is a new well that came online in March 2004. The well is currently producing to the Indian Basin 132 production facility along with IB "32" State wells 1, 2, 3 & 7. Gas from this facility is measured and metered and then enters the Indian Basin Gas Loop for processing at the Indian Basin Gas Plant. Oil and water are measured and recombined and sent to the EIB production facility; where they are once again separated oil is then sold through the EIB Lact units, and water is disposed in the Indian Basin disposal well system.

Include IB "32" State No. 7. This well is a new well that came online in May 2004. The well is currently producing to the Indian Basin 132 production facility along with IB "32" State wells 1, 2, 3 & 7. Gas from this facility is measured and metered and then enters the Indian Basin Gas Loop for processing at the Indian Basin Gas Plant. Oil and water are measured and recombined and sent to the EIB production facility; where they are once again separated oil is then sold through the EIB Lact units, and water is disposed in the Indian Basin disposal well system.

Please see the updated diagrams of the Station 132 Satellite Facility and the EIB Production Facility attached with this letter. If you need more information please contact me at phone number 713-296-2096 or through email at ckendrix@MarathonOil.com

Sincerely,

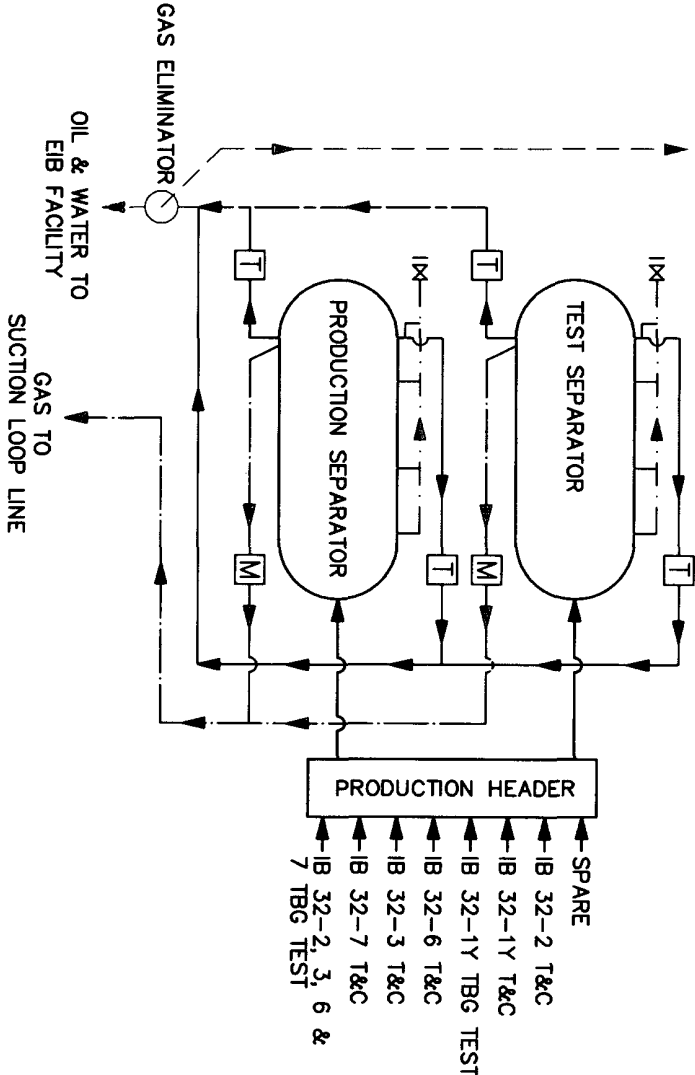
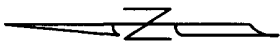
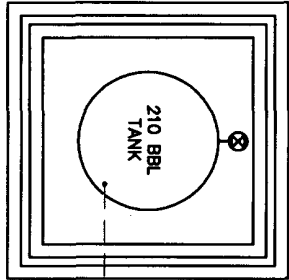
Charles E. Kendrix

attachmens: Station 132 facility diagram, EIB Production facility diagram

cc: Mr. Tim Gum

MARATHON OIL COMPANY
SERVING WELLS: IB 32 ST. 1Y, 2, 3, 6 & 7
STATION NO:132
UL "J" SEC. 32 T-21-S, R-24-E
EDDY CO. N.M.

THE FACILITY IS SUBJECT
TO THE SITE SECURITY PLAN FOR
THE INDIAN BASIN FIELD. THE
PLAN IS LOCATED AT:
MARATHON OIL CO.
329 MARATHON RD.
LAKEWOOD, NM 88259



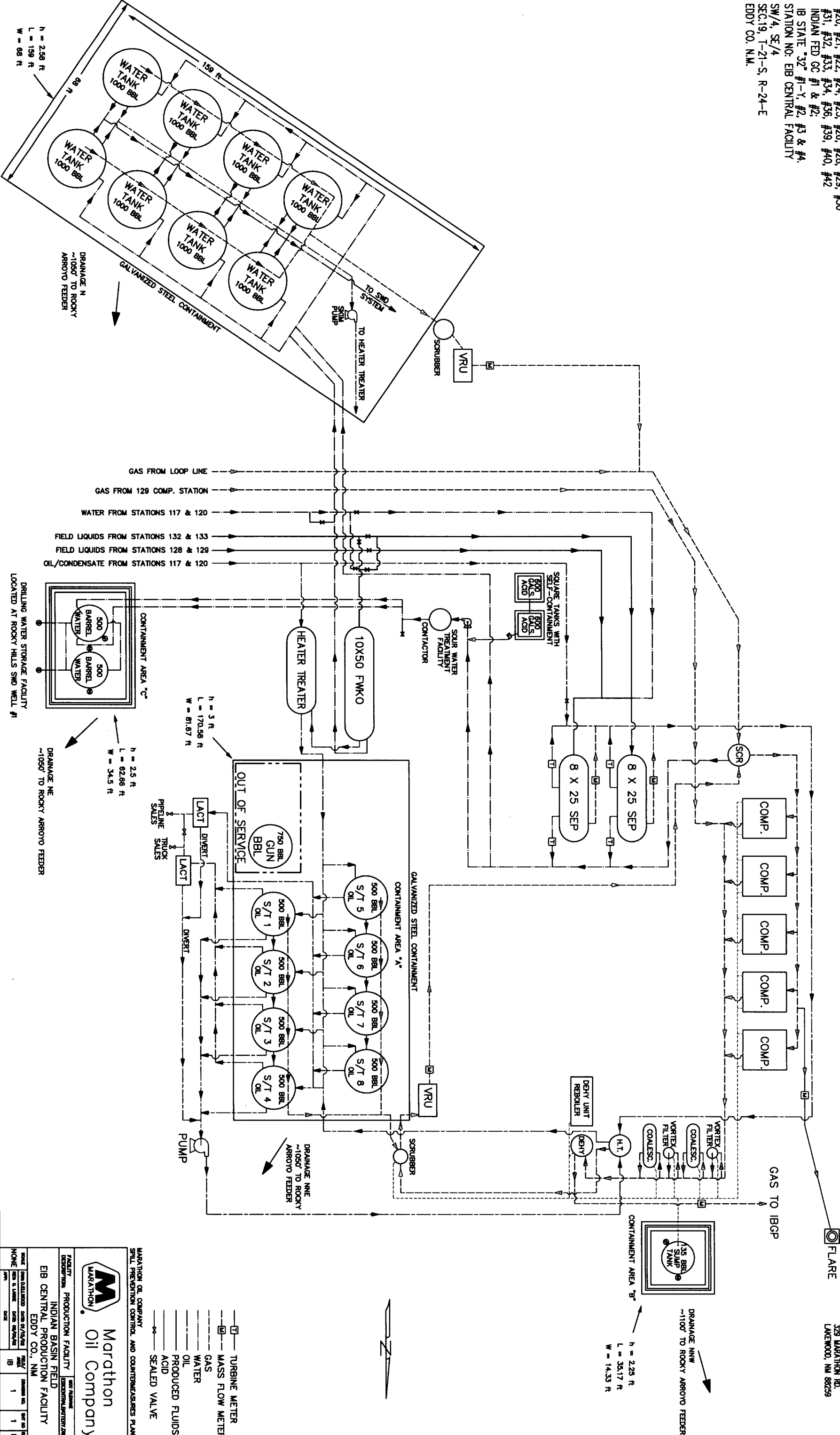
- [M]— MASS FLOW METER
- [T]— TURBINE METER
- [X]— SEALED VALVE
- GAS LINE
- OIL LINE
- WATER LINE
- OIL, WATER & GAS LINE
- TANK BOTTOMS

Marathon
Oil Company

MID-CONTINENT REGION

FACILITY DESCRIPTION: PRODUCTION FACILITY		MOC FILENAME: STA132_Rev C.DWG	
INDIAN BASIN FIELD			
STATION 132 SATELLITE PRODUCTION FACILITY DIAGRAM			
EDDY CO., NM			
SCALE: NONE	DATE: 01/15/02	APP: DATE: 08/23/04	REV: D
APPROVAL: NONE	DATE: 08/23/04	DATE: 08/23/04	DATE: 08/23/04

MARATHON OIL COMPANY
SERVING WELLS: IHUC #3, #13, #14, #27;
IHU #1, #6, #8, #9, #10, #11, #12, #17, #18, #19
#20, #21, #22, #24, #25, #26, #28, #29, #30
#31, #32, #33, #34, #35, #36, #39, #40, #42
INDIAN FED GC #1 & #2;
IB STATE "32" #1-Y, #2, #3 & #4.
STATION NO: EIB CENTRAL FACILITY
SW/4, SE/4
SEC.19, T-21-S, R-24-E
EDDY CO. N.M.



THE FACILITY IS SUBJECT
TO THE SITE SECURITY PLAN FOR
THE INDIAN BASIN FIELD. THE
PLAN IS LOCATED AT:
MARATHON OIL CO.
329 MARATHON RD.
LAKEWOOD, NM 88239

— TURBINE METER
— MASS FLOW METER
— GAS
— WATER
— OIL
— PRODUCED FLUIDS
— ACID
— SEALED VALVE

Marathon
Oil Company

MARATHON OIL COMPANY
SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN

FACILITY	DESCRIPTION	DATE	REVISION
INDIAN BASIN FIELD	INDIAN BASIN FIELD	10/1/88	1
EIB CENTRAL PRODUCTION FACILITY	EIB CENTRAL PRODUCTION FACILITY	10/1/88	1
EDDY CO., NM	EDDY CO., NM	10/1/88	1

DATE: 10/1/88
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

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 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-33031	² Pool Code 33685	³ Pool Name Indian Basin Upper Perm Associated
⁴ Property Code 22575	⁵ Property Name IB "32" State	⁶ Well Number 6
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁹ Elevation 4115'

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
L	33	21-S	24-E		1777'	South	685'	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	21-S	24-E		632'	South	986'	East	Eddy

¹² Dedicated Acres 320	¹³ Joint or Infill Y	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Charles E. Kendrix Printed Name Engineering Technician cekendrix@marathonoil.com Title and E-mail Address 10/10/2004 Date
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer:
	Certificate Number

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: IB 32 State #6 -Sidetrack

Target Azimuth: 236
Target TVD: 8535

Closure Direction: 237

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/ South (ft)	East/ West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
0.00	0.00	236.00	0.00	0.00	0.00	0.00	<==== Tie-in Data				
216.00	0.75	144.00	215.99	-0.05	-1.14	0.83	1.41	0.003	-0.426	0.35	SS
433.00	0.25	149.00	432.98	-0.07	-2.70	1.91	3.31	-0.002	0.023	0.23	SS
677.00	0.25	150.00	676.98	-0.01	-3.62	2.45	4.37	0.000	0.004	0.00	SS
922.00	0.25	166.00	921.98	0.21	-4.60	2.85	5.41	0.000	0.065	0.03	SS
1320.00	0.50	199.00	1,319.97	1.89	-7.08	2.49	7.51	0.001	0.083	0.08	SS
1745.00	0.50	164.00	1,744.96	3.95	-10.62	2.40	10.89	0.000	-0.082	0.07	SS
1839.00	0.40	300.10	1,838.96	4.22	-10.85	2.23	11.07	-0.001	1.448	0.89	MWD
1862.00	0.60	294.50	1,861.95	4.32	-10.76	2.05	10.95	0.009	-0.243	0.89	MWD
1893.00	0.70	274.10	1,892.95	4.55	-10.68	1.71	10.81	0.003	-0.658	0.81	MWD
1925.00	1.00	294.90	1,924.95	4.85	-10.54	1.26	10.62	0.009	0.650	1.33	MWD
1957.00	1.10	275.50	1,956.94	5.23	-10.40	0.70	10.42	0.003	-0.606	1.15	MWD
1988.00	1.50	264.30	1,987.94	5.82	-10.41	0.00	10.41	0.013	-0.361	1.52	MWD
2019.00	1.70	264.30	2,018.92	6.58	-10.50	-0.86	10.53	0.006	0.000	0.65	MWD
2051.00	2.10	262.50	2,050.91	7.52	-10.62	-1.91	10.79	0.013	-0.056	1.26	MWD
2082.00	2.60	255.80	2,081.88	8.69	-10.87	-3.15	11.31	0.016	-0.216	1.84	MWD
2114.00	2.90	252.70	2,113.84	10.15	-11.28	-4.63	12.20	0.009	-0.097	1.05	MWD
2146.00	3.20	244.60	2,145.80	11.81	-11.91	-6.21	13.43	0.009	-0.253	1.64	MWD
2176.00	3.70	242.10	2,175.74	13.60	-12.72	-7.82	14.93	0.017	-0.083	1.74	MWD
2207.00	3.80	238.20	2,206.68	15.62	-13.73	-9.58	16.74	0.003	-0.126	0.88	MWD
2239.00	4.50	238.30	2,238.59	17.93	-14.95	-11.55	18.89	0.022	0.003	2.19	MWD
2270.00	5.00	238.60	2,269.49	20.50	-16.29	-13.74	21.31	0.016	0.010	1.61	MWD
2302.00	5.90	239.70	2,301.34	23.53	-17.85	-16.35	24.20	0.028	0.034	2.83	MWD
2334.00	6.50	240.70	2,333.15	26.98	-19.56	-19.35	27.51	0.019	0.031	1.91	MWD
2365.00	7.10	244.90	2,363.94	30.62	-21.24	-22.61	31.02	0.019	0.135	2.51	MWD
2397.00	7.60	243.90	2,395.67	34.67	-23.01	-26.30	34.94	0.016	-0.031	1.61	MWD
2428.00	8.30	242.50	2,426.37	38.92	-24.94	-30.13	39.11	0.023	-0.045	2.34	MWD
2460.00	9.10	242.10	2,458.01	43.74	-27.19	-34.41	43.86	0.025	-0.013	2.51	MWD
2492.00	9.90	241.40	2,489.57	48.99	-29.69	-39.07	49.07	0.025	-0.022	2.53	MWD
2523.00	10.50	241.80	2,520.08	54.45	-32.30	-43.89	54.50	0.019	0.013	1.95	MWD
2555.00	10.90	242.10	2,551.52	60.36	-35.10	-49.14	60.38	0.013	0.009	1.26	MWD
2587.00	11.30	241.40	2,582.92	66.49	-38.01	-54.56	66.50	0.013	-0.022	1.32	MWD
2619.00	11.90	242.80	2,614.27	72.89	-41.02	-60.25	72.89	0.019	0.044	2.07	MWD
2650.00	12.50	241.20	2,644.57	79.40	-44.10	-66.03	79.41	0.019	-0.052	2.22	MWD
2682.00	12.70	243.10	2,675.80	86.34	-47.36	-72.21	86.35	0.006	0.059	1.44	MWD
2713.00	13.20	242.80	2,706.01	93.24	-50.52	-78.39	93.26	0.016	-0.010	1.63	MWD
2745.00	13.30	242.50	2,737.16	100.53	-53.89	-84.91	100.56	0.003	-0.009	0.38	MWD
2776.00	13.60	243.20	2,767.31	107.68	-57.18	-91.32	107.75	0.010	0.023	1.10	MWD
2808.00	13.90	242.50	2,798.39	115.24	-60.65	-98.09	115.33	0.009	-0.022	1.07	MWD
2840.00	14.10	241.80	2,829.44	122.93	-64.27	-104.94	123.05	0.006	-0.022	0.82	MWD
2871.00	14.50	241.40	2,859.48	130.55	-67.91	-111.67	130.70	0.013	-0.013	1.33	MWD
2903.00	15.40	239.70	2,890.40	138.78	-71.97	-118.86	138.95	0.028	-0.053	3.13	MWD
2935.00	16.40	239.70	2,921.17	147.53	-76.39	-126.43	147.71	0.031	0.000	3.13	MWD
2967.00	16.90	239.70	2,951.83	156.68	-81.02	-134.34	156.88	0.016	0.000	1.56	MWD
2999.00	17.10	240.00	2,982.43	166.01	-85.72	-142.43	166.24	0.006	0.009	0.68	MWD
3030.00	17.20	239.30	3,012.05	175.14	-90.34	-150.32	175.38	0.003	-0.023	0.74	MWD
3062.00	17.50	238.30	3,042.60	184.67	-95.28	-158.48	184.92	0.009	-0.031	1.32	MWD
3093.00	17.80	237.20	3,072.14	194.06	-100.30	-166.43	194.32	0.010	-0.035	1.45	MWD
3124.00	18.00	237.50	3,101.64	203.59	-105.44	-174.45	203.84	0.006	0.010	0.71	MWD
3155.00	18.00	237.60	3,131.12	213.16	-110.58	-182.54	213.42	0.000	0.003	0.10	MWD
3219.00	18.30	236.50	3,191.94	233.10	-121.42	-199.27	233.34	0.005	-0.017	0.71	MWD
3250.00	18.30	236.10	3,221.37	242.83	-126.82	-207.36	243.07	0.000	-0.013	0.41	MWD
3314.00	18.30	235.40	3,282.13	262.92	-138.13	-223.97	263.14	0.000	-0.011	0.34	MWD
3406.00	18.50	234.70	3,369.43	291.96	-154.77	-247.78	292.14	0.002	-0.008	0.32	MWD

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: IB 32 State #6 -Sidetrack

Target Azimuth: 236
Target TVD: 8535

Closure Direction: 237

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/ South (ft)	East/ West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
3503.00	18.50	234.70	3,461.41	322.73	-172.55	-272.89	322.87	0.000	0.000	0.00	MWD
3567.00	18.30	234.40	3,522.14	342.92	-184.27	-289.35	343.04	-0.003	-0.005	0.35	MWD
3598.00	18.30	234.40	3,551.58	352.65	-189.93	-297.27	352.76	0.000	0.000	0.00	MWD
3661.00	18.50	233.70	3,611.35	372.53	-201.61	-313.36	372.62	0.003	-0.011	0.47	MWD
3693.00	18.50	234.00	3,641.70	382.68	-207.60	-321.56	382.75	0.000	0.009	0.30	MWD
3756.00	18.90	234.40	3,701.37	402.86	-219.41	-337.95	402.93	0.006	0.006	0.67	MWD
3819.00	18.80	234.40	3,761.00	423.21	-231.26	-354.50	423.26	-0.002	0.000	0.16	MWD
3882.00	19.60	232.60	3,820.49	443.91	-243.59	-371.14	443.94	0.013	-0.029	1.58	MWD
3913.00	20.30	231.60	3,849.63	454.46	-250.09	-379.49	454.49	0.023	-0.032	2.51	MWD
3945.00	20.30	230.20	3,879.64	465.52	-257.09	-388.10	465.53	0.000	-0.044	1.52	MWD
3977.00	20.10	229.90	3,909.68	476.51	-264.19	-396.58	476.51	-0.006	-0.009	0.70	MWD
4008.00	19.80	230.50	3,938.82	487.03	-270.96	-404.70	487.03	-0.010	0.019	1.17	MWD
4039.00	19.60	231.20	3,968.00	497.44	-277.55	-412.80	497.44	-0.006	0.023	1.00	MWD
4103.00	18.90	233.70	4,028.42	518.49	-290.42	-429.52	518.49	-0.011	0.039	1.69	MWD
4135.00	18.60	233.70	4,058.73	528.77	-296.51	-437.81	528.77	-0.009	0.000	0.94	MWD
4197.00	18.70	234.40	4,117.47	548.58	-308.15	-453.86	548.59	0.002	0.011	0.40	MWD
4229.00	18.80	235.80	4,147.77	558.87	-314.03	-462.30	558.87	0.003	0.044	1.44	MWD
4261.00	18.70	236.10	4,178.07	569.15	-319.79	-470.82	569.16	-0.003	0.009	0.43	MWD
4292.00	18.50	235.40	4,207.45	579.04	-325.35	-479.00	579.04	-0.006	-0.023	0.97	MWD
4324.00	18.20	234.70	4,237.83	589.11	-331.12	-487.25	589.12	-0.009	-0.022	1.16	MWD
4355.00	18.20	235.10	4,267.28	598.79	-336.69	-495.18	598.80	0.000	0.013	0.40	MWD
4387.00	18.20	236.50	4,297.68	608.79	-342.31	-503.44	608.79	0.000	0.044	1.37	MWD
4419.00	18.50	238.30	4,328.05	618.86	-347.74	-511.93	618.86	0.009	0.056	2.00	MWD
4450.00	18.60	239.00	4,357.44	628.71	-352.87	-520.35	628.71	0.003	0.023	0.79	MWD
4482.00	18.50	238.60	4,387.78	638.88	-358.14	-529.06	638.88	-0.003	-0.013	0.51	MWD
4514.00	18.40	237.60	4,418.13	649.00	-363.49	-537.66	649.00	-0.003	-0.031	1.04	MWD
4545.00	18.10	235.80	4,447.57	658.70	-368.82	-545.77	658.70	-0.010	-0.058	2.06	MWD
4577.00	17.50	236.10	4,478.04	668.49	-374.30	-553.87	668.49	-0.019	0.009	1.90	MWD
4609.00	16.90	237.50	4,508.61	677.95	-379.48	-561.79	677.95	-0.019	0.044	2.28	MWD
4641.00	17.10	238.20	4,539.21	687.30	-384.46	-569.71	687.30	0.006	0.022	0.89	MWD
4672.00	17.80	237.20	4,568.78	696.59	-389.43	-577.57	696.59	0.023	-0.032	2.46	MWD
4704.00	18.50	235.40	4,599.19	706.56	-394.96	-585.86	706.56	0.022	-0.056	2.80	MWD
4735.00	18.90	234.40	4,628.55	716.49	-400.67	-593.99	716.49	0.013	-0.032	1.65	MWD
4767.00	18.90	234.40	4,658.83	726.85	-406.71	-602.42	726.86	0.000	0.000	0.00	MWD
4798.00	18.50	235.90	4,688.19	736.79	-412.39	-610.57	736.79	-0.013	0.048	2.02	MWD
4830.00	18.10	237.60	4,718.58	746.84	-417.90	-618.97	746.84	-0.013	0.053	2.08	MWD
4862.00	17.80	238.30	4,749.02	756.69	-423.13	-627.33	756.69	-0.009	0.022	1.15	MWD
4894.00	17.50	238.30	4,779.51	766.39	-428.23	-635.59	766.39	-0.009	0.000	0.94	MWD
4925.00	17.70	238.60	4,809.06	775.75	-433.13	-643.57	775.75	0.006	0.010	0.71	MWD
4957.00	17.80	239.30	4,839.54	785.50	-438.17	-651.93	785.50	0.003	0.022	0.74	MWD
4988.00	18.00	240.00	4,869.04	795.00	-442.98	-660.15	795.01	0.006	0.023	0.95	MWD
5020.00	18.20	240.00	4,899.45	804.92	-447.95	-668.76	804.93	0.006	0.000	0.63	MWD
5051.00	18.40	239.30	4,928.88	814.64	-452.87	-677.16	814.64	0.006	-0.023	0.96	MWD
5082.00	18.60	237.20	4,958.28	824.46	-458.05	-685.53	824.47	0.006	-0.068	2.24	MWD
5114.00	18.80	235.80	4,988.59	834.72	-463.71	-694.08	834.73	0.006	-0.044	1.54	MWD
5145.00	19.20	234.70	5,017.91	844.81	-469.46	-702.37	844.82	0.013	-0.035	1.73	MWD
5177.00	19.60	234.40	5,048.09	855.44	-475.63	-711.03	855.45	0.013	-0.009	1.29	MWD
5208.00	20.00	237.20	5,077.26	865.94	-481.53	-719.72	865.94	0.013	0.090	3.32	MWD
5239.00	19.70	237.20	5,106.41	876.46	-487.23	-728.56	876.47	-0.010	0.000	0.97	MWD
5270.00	19.30	236.80	5,135.64	886.81	-492.86	-737.24	886.81	-0.013	-0.013	1.36	MWD
5308.00	18.80	236.10	5,171.55	899.21	-499.72	-747.58	899.22	-0.013	-0.018	1.45	MWD
5340.00	19.60	236.50	5,201.77	909.73	-505.56	-756.33	909.74	0.025	0.013	2.53	MWD
5371.00	20.30	235.10	5,230.91	920.31	-511.50	-765.08	920.32	0.023	-0.045	2.73	MWD
5434.00	20.90	233.30	5,289.89	942.46	-524.47	-783.05	942.47	0.010	-0.029	1.38	MWD

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: IB 32 State #6 -Sidetrack

Target Azimuth: 236
Target TVD: 8535

Closure Direction: 237

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/South (ft)	East/West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
5497.00	21.10	232.30	5,348.70	965.00	-538.12	-801.04	965.00	0.003	-0.016	0.65	MWD
5561.00	20.90	231.20	5,408.45	987.87	-552.32	-819.05	987.87	-0.003	-0.017	0.69	MWD
5624.00	20.40	233.30	5,467.40	1,010.04	-565.92	-836.61	1,010.04	-0.008	0.033	1.42	MWD
5687.00	20.00	235.70	5,526.53	1,031.78	-578.56	-854.31	1,031.78	-0.006	0.038	1.46	MWD
5751.00	19.90	240.70	5,586.69	1,053.58	-590.05	-872.85	1,053.58	-0.002	0.078	2.67	MWD
5814.00	19.70	241.40	5,645.97	1,074.84	-600.38	-891.53	1,074.84	-0.003	0.011	0.49	MWD
5875.00	19.80	238.60	5,703.38	1,095.40	-610.69	-909.37	1,095.40	0.002	-0.046	1.56	MWD
5940.00	18.80	236.80	5,764.73	1,116.87	-622.16	-927.53	1,116.87	-0.015	-0.028	1.79	MWD
6004.00	17.90	239.30	5,825.48	1,137.00	-632.83	-944.62	1,137.01	-0.014	0.039	1.87	MWD
6036.00	17.80	241.10	5,855.94	1,146.78	-637.70	-953.13	1,146.79	-0.003	0.056	1.75	MWD
6068.00	18.20	241.10	5,886.37	1,156.63	-642.48	-961.79	1,156.64	0.013	0.000	1.25	MWD
6100.00	18.70	240.40	5,916.72	1,166.72	-647.43	-970.62	1,166.74	0.016	-0.022	1.71	MWD
6132.00	18.80	240.40	5,947.03	1,176.98	-652.51	-979.57	1,177.00	0.003	0.000	0.31	MWD
6194.00	18.00	236.80	6,005.86	1,196.52	-662.69	-996.27	1,196.54	-0.013	-0.058	2.24	MWD
6257.00	17.10	231.60	6,065.93	1,215.49	-673.78	-1,011.68	1,215.51	-0.014	-0.083	2.87	MWD
6289.00	16.80	229.90	6,096.54	1,224.78	-679.68	-1,018.90	1,224.79	-0.009	-0.053	1.81	MWD
6321.00	17.10	229.50	6,127.15	1,234.05	-685.71	-1,026.02	1,234.06	0.009	-0.013	1.01	MWD
6385.00	17.80	231.60	6,188.20	1,253.15	-697.90	-1,040.84	1,253.16	0.011	0.033	1.47	MWD
6448.00	18.10	234.40	6,248.14	1,272.54	-709.58	-1,056.34	1,272.54	0.005	0.044	1.45	MWD
6512.00	17.80	236.00	6,309.02	1,292.26	-720.84	-1,072.54	1,292.26	-0.005	0.025	0.90	MWD
6575.00	17.60	242.10	6,369.05	1,311.36	-730.68	-1,088.94	1,311.36	-0.003	0.097	2.96	MWD
6639.00	17.80	243.90	6,430.02	1,330.67	-739.51	-1,106.27	1,330.68	0.003	0.028	0.91	MWD
6701.00	18.30	243.90	6,488.97	1,349.70	-747.96	-1,123.52	1,349.72	0.008	0.000	0.81	MWD
6764.00	18.40	240.40	6,548.76	1,369.41	-757.22	-1,141.05	1,369.45	0.002	-0.056	1.76	MWD
6828.00	17.60	237.90	6,609.63	1,389.15	-767.35	-1,158.03	1,389.20	-0.013	-0.039	1.74	MWD
6892.00	17.20	236.50	6,670.70	1,408.28	-777.72	-1,174.12	1,408.33	-0.006	-0.022	0.90	MWD
6955.00	18.00	236.50	6,730.75	1,427.33	-788.23	-1,190.00	1,427.38	0.013	0.000	1.27	MWD
7018.00	18.50	236.80	6,790.58	1,447.06	-799.08	-1,206.49	1,447.11	0.008	0.005	0.81	MWD
7082.00	17.80	236.10	6,851.40	1,467.00	-810.09	-1,223.10	1,467.05	-0.011	-0.011	1.15	MWD
7113.00	17.60	235.80	6,880.93	1,476.42	-815.37	-1,230.91	1,476.47	-0.006	-0.010	0.71	MWD
7172.00	15.70	241.10	6,937.46	1,493.29	-824.24	-1,245.28	1,493.35	-0.032	0.090	4.12	MWD
7204.00	14.70	245.60	6,968.34	1,501.61	-828.01	-1,252.77	1,501.68	-0.031	0.141	4.83	MWD
7236.00	15.20	248.10	6,999.26	1,509.72	-831.26	-1,260.36	1,509.80	0.016	0.078	2.55	MWD
7268.00	15.60	249.80	7,030.11	1,518.00	-834.31	-1,268.29	1,518.10	0.013	0.053	1.88	MWD
7300.00	16.20	250.20	7,060.88	1,526.50	-837.31	-1,276.53	1,526.63	0.019	0.012	1.91	MWD
7331.00	16.60	249.80	7,090.62	1,535.00	-840.30	-1,284.75	1,535.15	0.013	-0.013	1.34	MWD
7363.00	16.70	249.80	7,121.28	1,543.90	-843.46	-1,293.36	1,544.09	0.003	0.000	0.31	MWD
7395.00	17.10	249.80	7,151.90	1,552.93	-846.68	-1,302.09	1,553.15	0.013	0.000	1.25	MWD
7427.00	16.40	247.40	7,182.54	1,561.93	-850.04	-1,310.67	1,562.19	-0.022	-0.075	3.07	MWD
7459.00	15.30	248.10	7,213.33	1,570.49	-853.35	-1,318.76	1,570.77	-0.034	0.022	3.49	MWD
7491.00	14.50	244.50	7,244.25	1,578.58	-856.65	-1,326.29	1,578.89	-0.025	-0.113	3.82	MWD
7523.00	14.40	241.10	7,275.24	1,586.50	-860.30	-1,333.39	1,586.83	-0.003	-0.106	2.67	MWD
7553.00	14.70	238.20	7,304.28	1,594.02	-864.10	-1,339.89	1,594.36	0.010	-0.097	2.63	MWD
7585.00	14.90	233.70	7,335.22	1,602.19	-868.68	-1,346.66	1,602.53	0.006	-0.141	3.65	MWD
7616.00	15.60	230.50	7,365.12	1,610.32	-873.69	-1,353.09	1,610.65	0.023	-0.103	3.53	MWD
7648.00	16.20	232.20	7,395.90	1,619.06	-879.16	-1,359.94	1,619.37	0.019	0.053	2.37	MWD
7680.00	17.00	234.40	7,426.57	1,628.19	-884.62	-1,367.27	1,628.49	0.025	0.069	3.18	MWD
7711.00	17.20	235.40	7,456.20	1,637.30	-889.86	-1,374.72	1,637.60	0.006	0.032	1.15	MWD
7743.00	17.10	237.90	7,486.77	1,646.74	-895.05	-1,382.60	1,647.03	-0.003	0.078	2.32	MWD
7774.00	16.80	237.50	7,516.43	1,655.77	-899.88	-1,390.24	1,656.07	-0.010	-0.013	1.04	MWD
7806.00	17.00	238.20	7,547.04	1,665.07	-904.83	-1,398.12	1,665.37	0.006	0.022	0.89	MWD
7837.00	18.00	238.60	7,576.61	1,674.38	-909.71	-1,406.06	1,674.69	0.032	0.013	3.25	MWD
7869.00	18.20	239.60	7,607.03	1,684.31	-914.82	-1,414.59	1,684.62	0.006	0.031	1.15	MWD
7901.00	18.30	238.60	7,637.42	1,694.31	-919.96	-1,423.19	1,694.64	0.003	-0.031	1.03	MWD

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: IB 32 State #6 -Sidetrack

Target Azimuth: 236
Target TVD: 8535

Closure Direction: 237

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/ South (ft)	East/ West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
8826.00	18.30	238.60	8,515.64	1,984.46	-1,071.29	-1,671.10	1,985.00	0.000	0.000	0.00	Proj

No surveys below 7901 - no returns