

DATE IN 602504	SUSPENSE 7-15-04	ENGINEER Stagner	LOGGED Stagner	TYPE NSL	PPF NO. Psem 0418047795
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



Carter A #5M

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Mary Corley
 Print or Type Name

Mary Corley
 Signature

Sr. Regulatory Analyst 06/24/2004

Title Date

corleym1@bp.com

e-mail Address

2004 JUN 25 PM 12 06



San Juan South Asset

Mary Corley
WL1-19.171
281-366-4491 (direct)
281-366-0700 (FAX)
corleym@bp.com

P. O. Box 3092
Houston, Texas 77253-3092
501 Westlake Park Boulevard
Houston, Texas 77079

May 24, 2004

Mr. Michael Stogner
New Mexico Oil Conservation Division
1220 South St Francis Drive
P.O. Box 6429
Santa Fe, NM 87505

Application for Non-Standard Well Location
Gartner A Well No. 5M
W/2 Section 27-T30N-R08W
Basin Dakota and Blanco Mesaverde Pools
San Juan County, New Mexico

N/S = 8'
E/W = 57'
57.6' off turned

BP America Production Company respectfully requests an administrative approval for a non-standard well location for the Gartner A Well No. 5M which was directionally drilled from a surface location of 1945' FSL & 1150' from FWL of Section 27, T30N, R08W. The projected bottom hole location was 1940' FSL & 1980' FWL of Section 27, T30N, R08W, however the final results of the directional survey indicates that the bottom hole location of the well as being 1948' FSL & 2037' FWL of the Section. This necessitates an exception to the well spacing pattern as the bottom hole location is 57' out of compliance on the East – West lines of the half section.

For your review and consideration attached is a C-102 Well Location Plat showing the well location (SHL, proposed BHL, and actual BHL although not to scale), a 9-section plat showing the offset wells and operators, and a copy of the Final Survey Analysis.

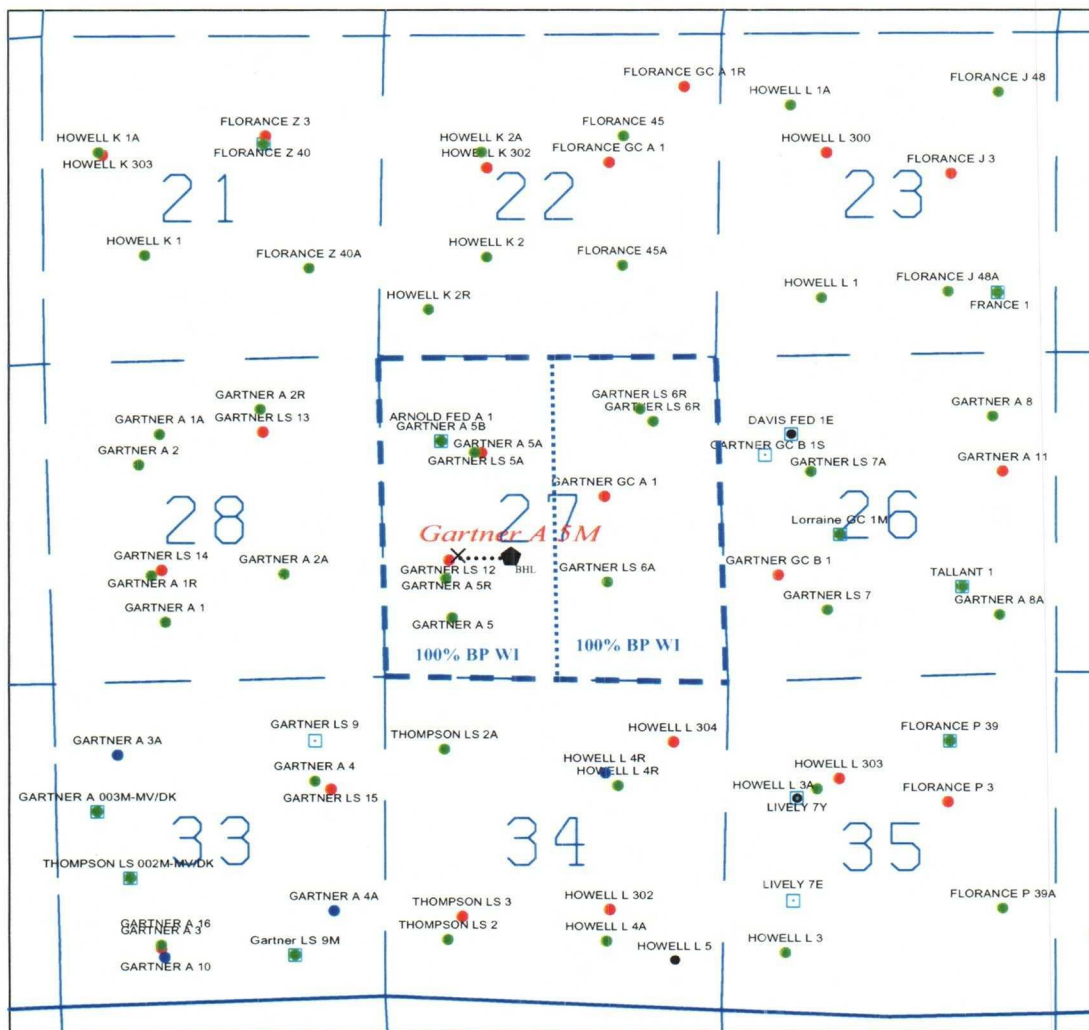
BP operates the both the W/2 and the E/2 of Section 27 with a 100% working interest in both. This information is also reflected on the 9 Section Plat.

Your attention to this matter is greatly appreciated. Should you have any questions concerning this application please do not hesitate to call me at 281-366-4491.

Sincerely,

A handwritten signature in cursive script, appearing to read "Mary Corley".
Mary Corley

cc: Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410



- Fruitland Coal
- Pictured Cliffs
- Mesaverde
- Dakota
- Other

BP America Production Co. Houston, TX			
<i>San Juan Basin</i> T30N R8W Sec. 27 <i>Gartner A 5M - 30-045-31171</i>			
SCALE	DRAWN BY	DATE	BY
	M. J. RITZ	17-JUN-2004	

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102

Revised August 15, 2000

OIL CONSERVATION DIVISION2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 71599 & 72319	³ Pool Name Basin Dakota & Blanco Mesaverde
⁴ Property Code 000589	⁵ Property Name Gartner A	⁶ Well Number 5M
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 6142'

¹⁰ Surface Location

UL or lot no. Unit L	Section 27	Township 30N	Range 08W	Lot Idn	Feet from 1940	North/South South	Feet from 1150	East/West West	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. Unit K	Section 27	Township 30N	Range 08W	Lot Idn	Feet from 1948	North/South South	Feet 2037	East/West West	County San Juan
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¹² Dedicated Acres 315.32	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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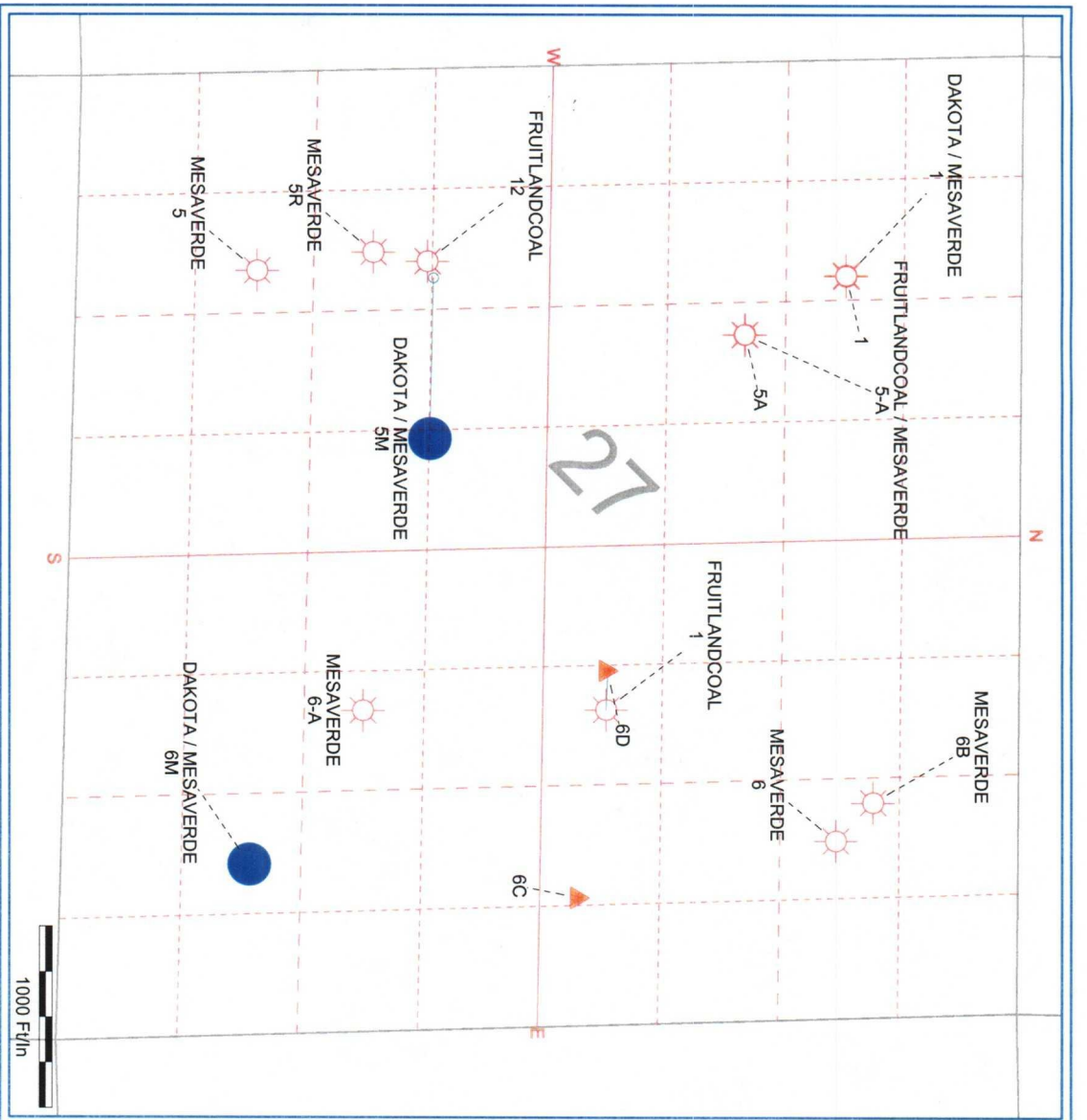
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 06/24/2004 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. 7/19/2002 Date of Survey Signature and Seal of Professional Surveyor: Gary D Vann 7016 Certificate Number

Gerthner A 5M

SAL: 1945 FSL 1150 FwL
BHL 1948 FSL 2037 FwL

57' out of compliance on E-W

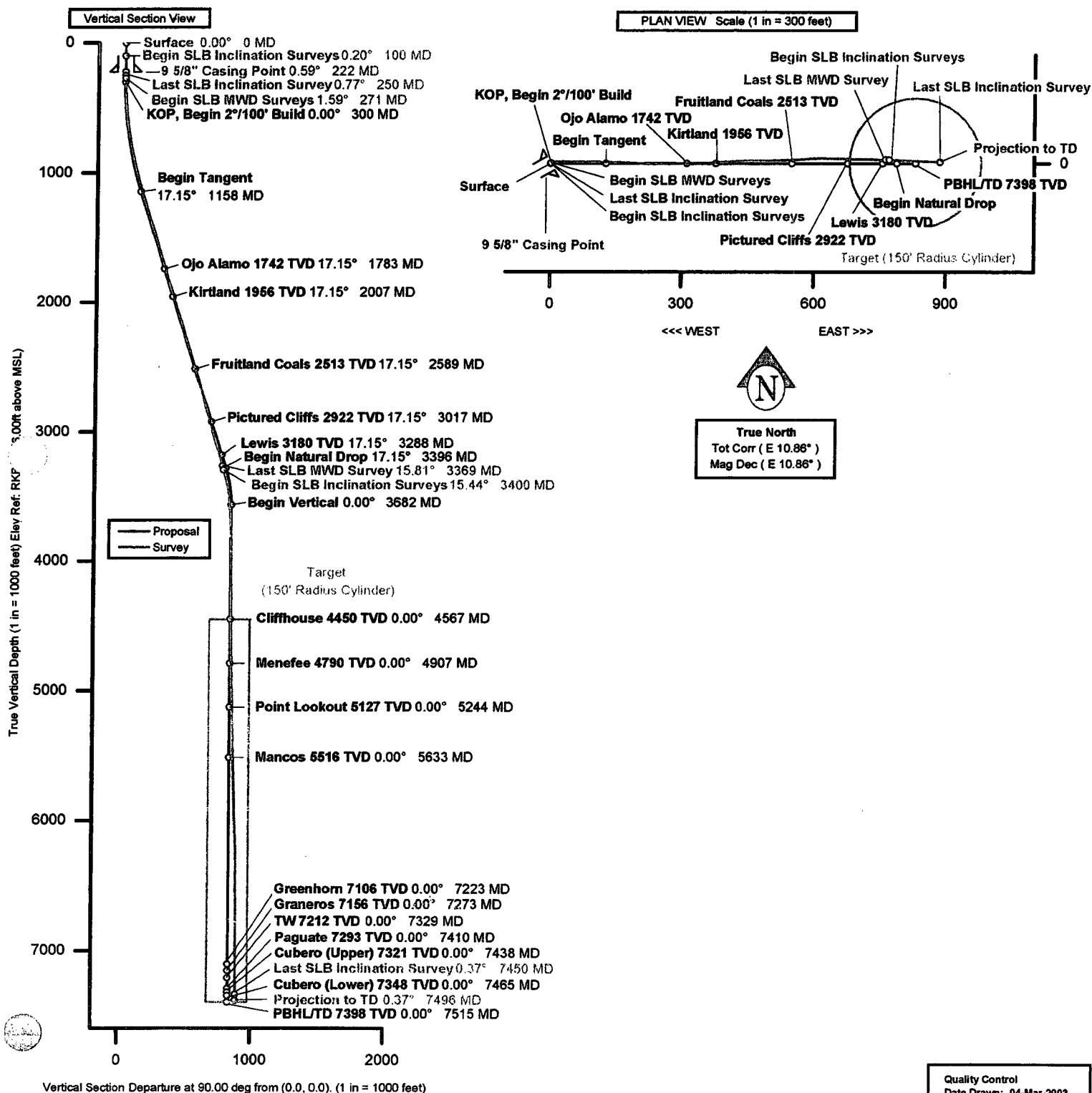




BP America Inc.



WELL	FIELD	RIG
Gartner A 5M	San Juan County, New Mexico	Aztec 184
Magnetic Parameters Model: BGGM 2002 Dip: 63.706° Mag Dec: 10.859° Date: March 04, 2003 FS: 51521.6 nT	Surface Location Lat: N36 46 54.000 Lon: W107 40 6.000 North: 2103887.64 ftUS East: 2771410.44 ftUS Grid Conv: 0.0988° Scale Fact: 0.9999	Plan#: Rev0 jok 26-Jul-02 Slot: Gartner A 5M Elev Ref: RKB(6156.00ft above MSL) Date Drawn: 04:02:25PM 04-Mar-2003



Quality Control
Date Drawn: 04-Mar-2003
Drawn by: James Wimberg
Checked by: John O'Keefe
Client OK: _____

Survey Report - Geodetic

Report Date: 04-Mar-2003 Client: BP, San Juan Performance Unit Field: NM, San Juan County (NAD 83 WZ) Structure / Slot: BP 27 30N 8W (Gartner A 5M) / Gartner A 5M Well: Gartner A 5M Borehole: Original Hole UWI/API#: Survey Name / Date: Gartner A 5M Final Surveys / March 4, 2003 Tort / AHD / DDI / ERD ratio: 60.098" / 887.79 ft / 4.734 / 0.12C Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet Location Lat/Long: N 36 46 53.999, W 107 40 6.00E Location Grid NE YX: N 2103887.638 ftUS, E 2771410.436 ftUS Grid Convergence Angle: -0.09879679" Grid Scale Factor: 0.99991934	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 90.000° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 6156.000 ft relative to MSL Sea Bed / Ground Level Elevation: 6144.000 ft relative to MSL Magnetic Declination: +10.859° Total Field Strength: 51521.558 nT Magnetic Dip: 63.706° Declination Date: March 04, 2003 Magnetic Declination Model: BGGM 2002 North Reference: True North Total Corr Mag North -> True North: +10.859° Local Coordinates Referenced To: Well Head
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Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	Vsec (ft)	N-S (ft)	E-W (ft)	DLS (°/100ft)	Grid Coordinates			Geographic Coordinates	
									Northing (ftUS)	Easting (ftUS)		Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2103887.64	2771410.44		N 36 46 53.999	W 107 40 6.005
Begin SLB Inclination Surveys	100.00	0.20	60.19	100.00	0.15	0.09	0.15	0.20	2103887.73	2771410.59		N 36 46 54.000	W 107 40 6.004
	200.00	0.45	60.19	200.00	0.64	0.37	0.64	0.25	2103888.01	2771411.08		N 36 46 54.002	W 107 40 5.998
Last SLB Inclination Survey	250.00	0.77	60.19	250.00	1.10	0.63	1.10	0.65	2103888.27	2771411.54		N 36 46 54.005	W 107 40 5.992
Begin SLB MWD Surveys	271.00	1.59	60.19	270.99	1.48	0.85	1.48	3.90	2103888.49	2771411.91		N 36 46 54.007	W 107 40 5.987
	302.00	1.87	80.18	301.98	2.35	1.15	2.35	2.13	2103888.79	2771412.79		N 36 46 54.010	W 107 40 5.977
	333.00	2.02	72.05	332.96	3.37	1.40	3.37	1.01	2103889.05	2771413.80		N 36 46 54.013	W 107 40 5.964
	364.00	2.44	72.10	363.94	4.52	1.77	4.52	1.35	2103889.42	2771414.95		N 36 46 54.016	W 107 40 5.950
	396.00	3.10	73.18	395.90	5.99	2.23	5.99	2.07	2103889.88	2771416.43		N 36 46 54.021	W 107 40 5.932
	427.00	3.36	76.57	426.85	7.68	2.69	7.68	1.04	2103890.34	2771418.11		N 36 46 54.025	W 107 40 5.911
	459.00	3.97	78.74	458.78	9.68	3.12	9.68	1.95	2103890.78	2771420.11		N 36 46 54.030	W 107 40 5.887
	490.00	4.58	81.25	489.70	11.95	3.52	11.95	2.06	2103891.18	2771422.38		N 36 46 54.034	W 107 40 5.859
	522.00	5.16	85.57	521.58	14.65	3.82	14.65	2.14	2103891.49	2771425.08		N 36 46 54.037	W 107 40 5.825
	554.00	6.01	87.28	553.43	17.76	4.02	17.76	2.71	2103891.68	2771428.19		N 36 46 54.038	W 107 40 5.787
	585.00	6.39	88.13	584.25	21.11	4.15	21.11	1.26	2103891.82	2771431.53		N 36 46 54.040	W 107 40 5.746
	616.00	7.07	86.89	615.03	24.73	4.31	24.73	2.24	2103891.99	2771435.16		N 36 46 54.041	W 107 40 5.701
	648.00	7.52	89.70	646.77	28.79	4.43	28.79	1.79	2103892.11	2771439.22		N 36 46 54.043	W 107 40 5.652
	679.00	8.29	91.94	677.48	33.06	4.36	33.06	2.67	2103892.06	2771443.48		N 36 46 54.042	W 107 40 5.599

711.00	9.29	89.25	709.10	37.95	4.32	37.95	2103892.02	2771448.37	N 36 46 54.041	W 107 40 5.539
743.00	10.05	90.25	740.65	43.32	4.34	43.32	2103892.05	2771453.74	N 36 46 54.042	W 107 40 5.473
773.00	10.78	91.11	770.15	48.74	4.27	48.74	2103891.99	2771459.17	N 36 46 54.041	W 107 40 5.406
805.00	11.51	90.90	801.55	54.93	4.16	54.93	2103891.90	2771465.35	N 36 46 54.040	W 107 40 5.330
836.00	11.81	91.61	831.91	61.19	4.03	61.19	2103891.77	2771471.61	N 36 46 54.039	W 107 40 5.253
868.00	12.10	90.28	863.22	67.82	3.92	67.82	2103891.67	2771478.24	N 36 46 54.038	W 107 40 5.172
899.00	12.48	89.67	893.51	74.42	3.92	74.42	2103891.69	2771484.84	N 36 46 54.038	W 107 40 5.091
931.00	12.94	90.11	924.72	81.46	3.93	81.46	2103891.71	2771491.88	N 36 46 54.038	W 107 40 5.004
963.00	13.36	90.34	955.88	88.74	3.91	88.74	2103891.70	2771499.16	N 36 46 54.037	W 107 40 4.915
992.00	14.09	89.73	984.05	95.62	3.90	95.62	2103891.71	2771506.04	N 36 46 54.037	W 107 40 4.830
1024.00	14.53	90.67	1015.06	103.53	3.87	103.53	2103891.69	2771513.95	N 36 46 54.037	W 107 40 4.733
1055.00	14.70	92.03	1045.06	111.35	3.69	111.35	2103891.52	2771521.77	N 36 46 54.035	W 107 40 4.637
1087.00	15.22	90.54	1075.97	119.60	3.51	119.60	2103891.35	2771530.02	N 36 46 54.033	W 107 40 4.535
1119.00	15.59	92.21	1106.82	128.10	3.30	128.10	2103891.16	2771538.52	N 36 46 54.031	W 107 40 4.431
1150.00	16.09	92.50	1136.65	136.56	2.95	136.56	2103890.83	2771546.97	N 36 46 54.028	W 107 40 4.327
1182.00	16.46	92.50	1167.37	145.51	2.56	145.51	2103890.45	2771555.93	N 36 46 54.024	W 107 40 4.217
1246.00	16.86	92.30	1228.68	163.85	1.79	163.85	2103889.71	2771574.27	N 36 46 54.017	W 107 40 3.991
1309.00	17.33	91.75	1288.90	182.35	1.14	182.35	2103889.09	2771592.77	N 36 46 54.010	W 107 40 3.764
1372.00	16.89	93.68	1349.11	200.87	0.27	200.87	2103888.25	2771611.28	N 36 46 54.001	W 107 40 3.536
1435.00	16.78	90.76	1409.41	219.09	-0.44	219.09	2103887.57	2771629.51	N 36 46 53.994	W 107 40 3.312
1498.00	16.91	90.73	1469.71	237.35	-0.68	237.35	2103887.37	2771647.76	N 36 46 53.992	W 107 40 3.088
1593.00	16.51	89.82	1560.69	264.66	-0.81	264.66	2103887.28	2771675.08	N 36 46 53.991	W 107 40 2.752
1687.00	17.38	87.86	1650.61	292.05	-0.25	292.05	2103887.90	2771702.46	N 36 46 53.996	W 107 40 2.416
1782.00	16.43	89.00	1741.51	319.66	0.52	319.66	2103888.71	2771730.07	N 36 46 54.004	W 107 40 2.076
1877.00	16.84	88.48	1832.53	346.85	1.12	346.85	2103889.35	2771757.25	N 36 46 54.010	W 107 40 1.742
1971.00	17.06	86.98	1922.45	374.23	2.21	374.23	2103890.49	2771784.63	N 36 46 54.021	W 107 40 1.405
2067.00	16.68	86.54	2014.32	402.04	3.78	402.04	2103892.11	2771812.44	N 36 46 54.036	W 107 40 1.063
2160.00	17.66	86.93	2103.17	429.45	5.34	429.45	2103893.72	2771839.84	N 36 46 54.052	W 107 40 0.726
2223.00	17.67	87.99	2163.20	448.55	6.19	448.55	2103894.60	2771858.94	N 36 46 54.060	W 107 40 0.492
2286.00	16.76	90.24	2223.38	467.19	6.48	467.19	2103894.93	2771877.58	N 36 46 54.063	W 107 40 0.263
2381.00	16.20	89.90	2314.47	494.14	6.45	494.14	2103894.94	2771904.52	N 36 46 54.063	W 107 39 59.931
2474.00	16.54	86.83	2403.71	520.33	7.20	520.33	2103895.74	2771930.71	N 36 46 54.070	W 107 39 59.609
2569.00	16.48	88.17	2494.79	547.30	8.38	547.30	2103896.96	2771957.68	N 36 46 54.082	W 107 39 59.278
2664.00	16.57	84.72	2585.87	574.26	10.06	574.26	2103898.69	2771984.63	N 36 46 54.098	W 107 39 58.946
2725.00	15.50	87.49	2644.49	591.06	11.22	591.06	2103899.87	2772001.43	N 36 46 54.110	W 107 39 58.740
2788.00	14.92	88.31	2705.29	607.58	11.82	607.58	2103900.51	2772017.95	N 36 46 54.116	W 107 39 58.537
2851.00	14.58	90.98	2766.21	623.62	11.93	623.62	2103900.64	2772033.98	N 36 46 54.117	W 107 39 58.340



Last SLB MWD Survey
Begin SLB Inclination Surveys

2914.00	14.71	90.01	2827.16	639.54	11.79	639.54	0.44	2103900.53	2772049.91	N 36 46 54.115	W 107 39 58.144
2977.00	15.03	92.10	2888.06	655.71	11.49	655.71	0.99	2103900.26	2772066.07	N 36 46 54.112	W 107 39 57.945
3040.00	15.20	92.34	2948.88	672.12	10.85	672.12	0.29	2103899.65	2772082.48	N 36 46 54.106	W 107 39 57.744
3135.00	16.08	90.80	3040.36	697.72	10.16	697.72	1.02	2103899.00	2772108.08	N 36 46 54.099	W 107 39 57.429
3198.00	15.91	90.54	3100.92	715.08	9.96	715.08	0.29	2103898.83	2772125.44	N 36 46 54.097	W 107 39 57.215
3262.00	15.97	91.34	3162.46	732.65	9.67	732.65	0.36	2103898.57	2772143.01	N 36 46 54.094	W 107 39 56.999
3325.00	16.10	92.16	3223.01	750.05	9.14	750.05	0.41	2103898.07	2772160.40	N 36 46 54.089	W 107 39 56.786
3369.00	15.81	92.55	3265.31	762.13	8.64	762.13	0.70	2103897.59	2772172.49	N 36 46 54.084	W 107 39 56.637
3400.00	15.44	92.55	3295.17	770.47	8.27	770.47	1.19	2103897.24	2772180.83	N 36 46 54.080	W 107 39 56.535
3450.00	14.36	92.55	3343.48	783.32	7.70	783.32	2.15	2103896.69	2772193.67	N 36 46 54.075	W 107 39 56.377
3500.00	11.81	92.55	3392.18	794.63	7.19	794.63	5.10	2103896.20	2772204.98	N 36 46 54.070	W 107 39 56.238
3550.00	9.29	92.55	3441.33	803.78	6.79	803.78	5.04	2103895.81	2772214.13	N 36 46 54.066	W 107 39 56.125
3600.00	7.29	92.55	3490.81	810.98	6.47	810.98	4.00	2103895.50	2772221.34	N 36 46 54.063	W 107 39 56.037
3650.00	5.51	92.55	3540.49	816.55	6.22	816.55	3.57	2103895.26	2772226.90	N 36 46 54.060	W 107 39 55.968
3700.00	4.31	92.55	3590.31	820.82	6.03	820.82	2.39	2103895.08	2772231.18	N 36 46 54.058	W 107 39 55.916
3750.00	3.73	92.55	3640.19	824.32	5.87	824.32	1.16	2103894.93	2772234.68	N 36 46 54.057	W 107 39 55.873
3800.00	2.82	92.55	3690.10	827.18	5.74	827.18	1.83	2103894.81	2772237.53	N 36 46 54.055	W 107 39 55.838
3850.00	2.02	92.55	3740.06	829.28	5.65	829.28	1.59	2103894.72	2772239.64	N 36 46 54.055	W 107 39 55.812
3900.00	1.32	92.55	3790.04	830.74	5.59	830.74	1.40	2103894.66	2772241.10	N 36 46 54.054	W 107 39 55.794
3950.00	0.94	92.55	3840.03	831.73	5.54	831.73	0.75	2103894.61	2772242.08	N 36 46 54.053	W 107 39 55.782
4000.00	0.43	92.55	3890.02	832.32	5.52	832.32	1.03	2103894.59	2772242.68	N 36 46 54.053	W 107 39 55.774
4050.00	0.45	92.55	3940.02	832.70	5.50	832.70	0.04	2103894.57	2772243.06	N 36 46 54.053	W 107 39 55.770
4100.00	0.29	92.55	3990.02	833.02	5.48	833.02	0.32	2103894.56	2772243.38	N 36 46 54.053	W 107 39 55.766
4150.00	0.43	92.55	4040.02	833.34	5.47	833.34	0.28	2103894.54	2772243.69	N 36 46 54.053	W 107 39 55.762
4200.00	0.32	92.55	4090.02	833.66	5.46	833.66	0.22	2103894.53	2772244.02	N 36 46 54.053	W 107 39 55.758
4250.00	0.46	92.55	4140.02	834.00	5.44	834.00	0.28	2103894.52	2772244.36	N 36 46 54.052	W 107 39 55.754
4300.00	0.32	92.55	4190.02	834.34	5.43	834.34	0.28	2103894.50	2772244.69	N 36 46 54.052	W 107 39 55.750
4350.00	0.43	92.55	4240.02	834.66	5.41	834.66	0.22	2103894.49	2772245.02	N 36 46 54.052	W 107 39 55.746
4400.00	0.38	92.55	4290.01	835.02	5.40	835.02	0.09	2103894.47	2772245.37	N 36 46 54.052	W 107 39 55.741
4450.00	0.38	92.55	4340.01	835.35	5.38	835.35	0.00	2103894.46	2772245.71	N 36 46 54.052	W 107 39 55.737
4500.00	0.46	92.55	4390.01	835.72	5.36	835.72	0.15	2103894.44	2772246.07	N 36 46 54.052	W 107 39 55.733
4550.00	0.21	92.55	4440.01	836.01	5.35	836.01	0.50	2103894.43	2772246.37	N 36 46 54.052	W 107 39 55.729
4600.00	0.42	92.55	4490.01	836.28	5.34	836.28	0.41	2103894.42	2772246.64	N 36 46 54.051	W 107 39 55.726
4650.00	0.57	92.55	4540.01	836.71	5.32	836.71	0.30	2103894.40	2772247.07	N 36 46 54.051	W 107 39 55.720
4700.00	0.55	92.55	4590.01	837.20	5.30	837.20	0.04	2103894.38	2772247.55	N 36 46 54.051	W 107 39 55.714
4750.00	0.62	92.55	4640.00	837.70	5.28	837.70	0.15	2103894.36	2772248.06	N 36 46 54.051	W 107 39 55.708
4800.00	1.01	92.55	4690.00	838.41	5.24	838.41	0.77	2103894.33	2772248.77	N 36 46 54.051	W 107 39 55.699
4850.00	1.01	92.55	4739.99	839.29	5.20	839.29	0.00	2103894.29	2772249.65	N 36 46 54.050	W 107 39 55.689

4900.00	1.08	92.55	4789.98	840.20	5.16	840.20	0.15	2103894.25	2772250.56	N 36 46 54.050	W 107 39 55.677
4950.00	1.21	92.55	4839.97	841.20	5.12	841.20	0.26	2103894.21	2772251.56	N 36 46 54.049	W 107 39 55.665
5000.00	1.38	92.55	4889.96	842.34	5.07	842.34	0.34	2103894.16	2772252.69	N 36 46 54.049	W 107 39 55.651
5050.00	1.31	92.55	4939.94	843.51	5.02	843.51	0.15	2103894.11	2772253.87	N 36 46 54.048	W 107 39 55.637
5100.00	1.31	92.55	4989.93	844.65	4.97	844.65	0.00	2103894.06	2772255.01	N 36 46 54.048	W 107 39 55.623
5150.00	1.33	92.55	5039.92	845.80	4.92	845.80	0.04	2103894.01	2772256.16	N 36 46 54.047	W 107 39 55.609
5200.00	1.09	92.55	5089.91	846.86	4.87	846.86	0.47	2103893.97	2772257.22	N 36 46 54.047	W 107 39 55.596
5250.00	1.13	92.55	5139.90	847.83	4.82	847.83	0.06	2103893.92	2772258.18	N 36 46 54.046	W 107 39 55.584
5300.00	1.24	92.55	5189.89	848.86	4.78	848.86	0.24	2103893.88	2772259.22	N 36 46 54.046	W 107 39 55.571
5350.00	1.19	92.55	5239.88	849.92	4.73	849.92	0.11	2103893.83	2772260.28	N 36 46 54.045	W 107 39 55.558
5400.00	1.24	92.55	5289.86	850.98	4.68	850.98	0.11	2103893.79	2772261.34	N 36 46 54.045	W 107 39 55.545
5450.00	1.44	92.55	5339.85	852.15	4.63	852.15	0.39	2103893.74	2772262.51	N 36 46 54.044	W 107 39 55.531
5500.00	1.36	92.55	5389.84	853.37	4.58	853.37	0.15	2103893.69	2772263.73	N 36 46 54.044	W 107 39 55.516
5550.00	1.44	92.55	5439.82	854.59	4.52	854.59	0.15	2103893.63	2772264.95	N 36 46 54.043	W 107 39 55.501
5600.00	1.56	92.55	5489.80	855.90	4.47	855.90	0.24	2103893.58	2772266.26	N 36 46 54.043	W 107 39 55.484
5650.00	1.65	92.55	5539.78	857.30	4.40	857.30	0.19	2103893.52	2772267.66	N 36 46 54.042	W 107 39 55.467
5700.00	1.64	92.55	5589.76	858.74	4.34	858.74	0.02	2103893.46	2772269.09	N 36 46 54.042	W 107 39 55.450
5750.00	1.98	92.55	5639.74	860.31	4.27	860.31	0.67	2103893.39	2772270.67	N 36 46 54.041	W 107 39 55.430
5800.00	1.98	92.55	5689.71	862.04	4.19	862.04	0.00	2103893.32	2772272.39	N 36 46 54.040	W 107 39 55.409
5850.00	1.79	92.55	5739.68	863.68	4.12	863.68	0.37	2103893.25	2772274.03	N 36 46 54.039	W 107 39 55.389
5900.00	1.54	92.55	5789.66	865.13	4.05	865.13	0.52	2103893.18	2772275.49	N 36 46 54.039	W 107 39 55.371
5950.00	1.62	92.55	5839.64	866.50	3.99	866.50	0.17	2103893.12	2772276.86	N 36 46 54.038	W 107 39 55.354
6000.00	1.50	92.55	5889.62	867.87	3.93	867.87	0.24	2103893.07	2772278.22	N 36 46 54.038	W 107 39 55.337
6050.00	1.56	92.55	5939.61	869.20	3.87	869.20	0.11	2103893.01	2772279.56	N 36 46 54.037	W 107 39 55.321
6100.00	1.95	92.55	5989.58	870.73	3.80	870.73	0.80	2103892.94	2772281.09	N 36 46 54.036	W 107 39 55.302
6150.00	2.21	92.55	6039.55	872.55	3.72	872.55	0.52	2103892.87	2772282.90	N 36 46 54.035	W 107 39 55.280
6200.00	2.23	92.55	6089.51	874.49	3.64	874.49	0.04	2103892.78	2772284.84	N 36 46 54.035	W 107 39 55.256
6250.00	1.84	92.55	6139.48	876.26	3.56	876.26	0.80	2103892.71	2772286.62	N 36 46 54.034	W 107 39 55.234
6300.00	1.54	92.55	6189.46	877.73	3.49	877.73	0.60	2103892.64	2772288.09	N 36 46 54.033	W 107 39 55.216
6350.00	1.14	92.55	6239.44	878.89	3.44	878.89	0.80	2103892.59	2772289.25	N 36 46 54.033	W 107 39 55.202
6400.00	0.93	92.55	6289.44	879.80	3.40	879.80	0.41	2103892.56	2772290.15	N 36 46 54.032	W 107 39 55.191
6450.00	0.73	92.55	6339.43	880.52	3.37	880.52	0.41	2103892.52	2772290.88	N 36 46 54.032	W 107 39 55.182
6500.00	0.68	92.55	6389.43	881.14	3.34	881.14	0.09	2103892.50	2772291.49	N 36 46 54.032	W 107 39 55.174
6550.00	0.41	92.55	6439.42	881.61	3.32	881.61	0.56	2103892.48	2772291.97	N 36 46 54.031	W 107 39 55.168
6600.00	0.42	92.55	6489.42	881.97	3.30	881.97	0.02	2103892.46	2772292.32	N 36 46 54.031	W 107 39 55.164
6650.00	0.35	92.55	6539.42	882.30	3.29	882.30	0.13	2103892.45	2772292.66	N 36 46 54.031	W 107 39 55.160
6700.00	0.25	92.55	6589.42	882.57	3.28	882.57	0.19	2103892.44	2772292.92	N 36 46 54.031	W 107 39 55.157

N/S E/W

6750.00	0.25	92.55	6639.42	882.79	3.27	882.79	0.00	2103892.43	2772293.14	N 36 46 54.031	W 107 39 55.154
6800.00	0.25	92.55	6689.42	883.01	3.26	883.01	0.00	2103892.42	2772293.37	N 36 46 54.031	W 107 39 55.151
6850.00	0.25	92.55	6739.42	883.23	3.25	883.23	0.00	2103892.41	2772293.59	N 36 46 54.031	W 107 39 55.148
6900.00	0.28	92.55	6789.42	883.46	3.24	883.46	0.04	2103892.40	2772293.82	N 36 46 54.031	W 107 39 55.146
6950.00	0.19	92.55	6839.42	883.67	3.23	883.67	0.17	2103892.39	2772294.02	N 36 46 54.031	W 107 39 55.143
7000.00	0.35	92.55	6889.42	883.90	3.22	883.90	0.32	2103892.38	2772294.26	N 36 46 54.030	W 107 39 55.140
7050.00	0.59	92.55	6939.42	884.31	3.20	884.31	0.47	2103892.36	2772294.67	N 36 46 54.030	W 107 39 55.135
7100.00	0.29	92.55	6989.42	884.69	3.18	884.69	0.60	2103892.35	2772295.05	N 36 46 54.030	W 107 39 55.131
7150.00	0.32	92.55	7039.41	884.96	3.17	884.96	0.06	2103892.33	2772295.31	N 36 46 54.030	W 107 39 55.127
7200.00	0.35	92.55	7089.41	885.25	3.16	885.25	0.06	2103892.32	2772295.61	N 36 46 54.030	W 107 39 55.124
7250.00	0.20	92.55	7139.41	885.49	3.15	885.49	0.30	2103892.31	2772295.85	N 36 46 54.030	W 107 39 55.121
7300.00	0.11	92.55	7189.41	885.63	3.14	885.63	0.17	2103892.31	2772295.98	N 36 46 54.030	W 107 39 55.119
7350.00	0.32	92.55	7239.41	885.82	3.13	885.82	0.41	2103892.30	2772296.17	N 36 46 54.030	W 107 39 55.117
7400.00	0.21	92.55	7289.41	886.05	3.12	886.05	0.22	2103892.29	2772296.40	N 36 46 54.030	W 107 39 55.114
7450.00	0.37	92.55	7339.41	886.30	3.11	886.30	0.32	2103892.28	2772296.66	N 36 46 54.029	W 107 39 55.111
7496.00	0.37	92.55	7385.41	886.60	3.10	886.60	0.01	2103892.26	2772296.96	N 36 46 54.029	W 107 39 55.107

Last SLB Inclination Survey

Projection to TD

Survey Error Model: Topographic 3-D 95.00% Confidence 2.7955 sigma

Surveying Programme:

MD From (ft)

0.00

100.00

271.00

3369.00

7450.00

MD To (ft) EQU Freq Survey Tool Type

100.00 Act-Stns Blind Drilling

271.00 Act-Stns Inclination Only

3369.00 Act-Stns MWD1

7450.00 Act-Stns Inclination Only

7496.00 Act-Stns Blind Drilling

1945
+ 3

1948

1150
887

2037