

FAX TRANSMITTAL SHEET

*BNP PETROLEUM CORPORATION
500 N. WATER STREET, STE. 1000S
CORPUS CHRISTI, TX 78471
361/882-3153
361/882-8604 (FAX)*

TO: Padre Is. National Seashore – Arlene Wimer
FROM: Carla Martin
DATE: January 28, 2002
SUBJECT: Pre-Spud Meeting – DunnMurdock #1
NO. OF PAGES (INCLUDING THIS ONE): 2

Accompanying this page is the notice of an upcoming pre-spud meeting & directions on how to get there.

If you do not receive the entire transmission, please call Carla Martin at the above listed telephone number.

NPS DOCUMENT # 499

FAX TRANSMITTAL SHEET

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CORPUS CHRISTI, TX 78471
361/882-3153
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TO: Padre Is. National Seashore – Arlene Wimer
FROM: Carla Martin
DATE: January 30, 2002
SUBJECT: Pre-Spud Meeting Attendees – DunnMurdock #1
NO. OF PAGES (INCLUDING THIS ONE): 2

Accompanying this page is the attendee list from the pre-spud meeting.

If you do not receive the entire transmission, please call Carla Martin at the above listed telephone number.

PRE-SPUD MEETING
DUNN-MURDOCK #1
JANUARY 30, 2002

SIGN IN SHEET - PLEASE PRINT

NAME	COMPANY NAME	OFFICE PHONE
Anlene Wimer	NPS	949-8173 x 224
Patrick Gardner	Patterson UTZ	361-576-6896
Robert T. Martinez	MO TOTCO	361-668-8288
LARRY GAINES	WEATHERFORD	361-883-3541
George Guerra	Ainsworth Trucking	361-241-0616
KYLE J. ZICKER	Ainsworth Trucking	361-241-0616
MARVIN W. Smith II	RBT	361 852 ~~3496~~ 9636
JACK M. McFALLAND	NOUTEX	713 353 4844
MELVIN R. SILLIS	NESLOVEY BASE EXP.	361-241-5488
GARY JONES	WEATHERFORD	361-289-6971
Ken McMullen	NPS-Padre Island	361-949-8173/227
CHUCK DALLIES	PATSON-UTZ Drilling	281-591-1301
TIM DIXON	PUNCHY DIXON Co.	361-882-2457
JACK Ballard	TONG SPECIALTY	361-468-9774
Paul Cleston	Schlumberger	361-887-1691
Jay Muniz	Tong Specialty	361-468-9774
Zelner Houchin	Cameron Equip.	361 289 0141
Dave Bailey	Browdt/Vanco.	361-289-7794
Walter Brown	TETRA	361-668-9702
Jeff Hecker	BNP	361-537-8143
Rusty Taylor	Schlumberger	956-301-5674
CHARLES KOENIG	Schlumberger Drill Bits	361-299-2011
LARA PAUL	NEWARK	956-729-0199
Eck Willoughby	WTI Trucking	361-289-0545
FRANK BIRNS	NEWARK	361 883 9181
Tom DAVES	NEWARK	281-754-8749
Carl Tolbert	Newark	361 883 9181
Richard E. West Jr.	Neslovey Base Expeditor	361-949-2491
David L. Lancia	MURFESS	361-289-7272
JAMES J. Smith	MURFESS	361-289-7272
Tim REYNOLDS	TESCO	213/703-7639
STEVE TAYLOR	BJ SERVICES	361-882-6177
DON LEAVELL	EK CONSULTANTS	361-816 4711
Rene Cantu	BJ Serv.	361 668 2100
Brian Vaughan	MURFESS	800 880 7558
Mike Moody	MURFESS	361 813-9912
DAVID DUM	Tetra Ref	361-563-2600

BNP Petroleum Corporation
Dunn-Murdock No. 1
Kenedy County, Texas
DRILLING PROCEDURE
January 29, 2002

29 Jan 02
BNP pre-spud
meeting

OBJECTIVE: Drill directionally to 14,900'TVD ($\pm 13,500$ MD) to test Marg Tex Sands

PROCEDURE:

1. MIRU Rathole Drilling. Set $\pm 75'$ of 16" conductor and 6'x6' corrugated cellar. Set 75' mousehole for topdrive operations.
2. MIRU UTI-Patterson Drilling Rig No. 9. Install riser, top-drive system, PVT system, hydraulic choke, solids control equipment, cuttings catch tanks and mud slide.
3. PU 14-3/4" rock bit, two 8" drill collars, one weld blade stabilizer, one 8" drill collar, one 6-1/4" drill collar, one weld blade stabilizer and seventeen 6-1/4" drill collars. GIH with drill pipe and drill to $\pm 2230'$. At 2230' circulate clean and make wiper trip to surface. POOH to run casing.
4. RU casing crew and tongs. MU and GIH with 10-3/4" guide shoe, one jt. of 10-3/4" 40.50# J-55 STC casing, 10-3/4" float collar, and $\pm 2200'$ of 10-3/4" 40.50# J-55 STC casing. Thread lock guide shoe and float collar. Place one centralizer every fourth collar from the shoe to surface. On bottom, RU BJ Services cementing head and circulate bottoms up with rig pump. Notify the Railroad Commission 12 hrs prior to cementing.
5. RU BJ cementing unit. Mix and pump 20 bbls fresh water followed by 825 sacks 15:85 POZ: Class A + 3% NaCl + 8% Gel + 0.004 gps FP-13L (12.4 ppg, 2.23 cf/sk) and 410 sacks Class A + 0.004 gps FP-13L (15.6 ppg, 1.18 cf/sk). Reciprocate casing through out job. Bump plug with 500 psi over final pump pressure. Top out if necessary. RD BJ. After displacement, WOC 4 hrs.
6. Cut off 16" riser and 10-3/4" casing. Install 10-3/4" SOW x 11" 5M psi braidenhead. Test to 1250 psi. NU BOP and annular. Test to appropriate working pressure.
7. PU and GIH with 9-7/8" rock bit, two 6-1/4" drill collars, weld blade stabilizer, one 6-1/4" drill collar, one weld blade stabilizer, ten 6-1/4" drill collars, drilling jars and five 6-1/4" drill collars. GIH to float collar. Test casing to 1500 psi. Drill float equipment, cement, and 10' of new hole. Circulate and condition mud. Close annular and test casing seat to 12.5 ppg EMW.
8. Continue drilling 9-7/8" hole to kick off point ($\pm 6,670'$). Circulate clean. Run gyro survey. POOH. LD drill collars. PU motor bit, motor, MWD and angle building assembly and 30 joints of heavy-wate drill pipe. GIH. Directionally drill 9-7/8" hole according to multi-shot directional plan to intermediate casing point at ± 9500 tvd or as directed. RU mudlogger at 4000'. Break mud over to PHPA system at $\pm 4000'$. Sweep hole with LCM as necessary. Short trip as necessary.
9. At intermediate point, circulate and condition mud and hole. Make short trip. POOH to log.
10. RU Schlumberger. Run triple combo and other logs as directed. RD Schlumberger.
11. PU And GIH with test packer to 1450'. Set packer and test surface casing to minimum 500 psi for annular injection. Notify RRC prior to test and use chart while testing.

BNP Petroleum Corporation
Dunn-Murdock No. 1
Kenedy County, Texas
DRILLING PROCEDURE
January 29, 2002

12. GIH with bit and condition hole to run casing. POOH LD drill pipe and heavi-wate.
13. RU casing crew and tongs. MU and GIH with 7-5/8" float shoe, one joint 7-5/8" 29.70# HCP-110 LTC casing, 7-5/8" float collar, and remaining 7-5/8" 29.70 # HCP-110 LTC casing. Thread lock float equipment and run centralizers and wipers as directed. On bottom, RU BJ cementing head. Circulate and condition mud with rig pump.
14. Switch to BJ cementing unit. Cement casing as directed using 10% over caliper. Reciprocate casing throughout job. Notify Railroad Commission prior to running casing. Displace plug with mud. Bump plug with 500 psi over final pump pressure. RD BJ.
15. PU BOPS and set 7-5/8" casing slips and hang off casing with ± 100 k lbs. tension. Finish ND BOPS. Install 11" 5M psi x 7-1/16" 10M psi tubing head. Test flange to 5000 psi. NU 11' 10k PSI WP BOPS. Test BOPS, annular, choke and all valves to rated working pressures.
16. MU and GIH with 6-3/4" rock bit, 25 jts 3-1/2" heavi-wate, drilling jars and five jts 3-1/2" heavi-wate and 3-1/2" drill pipe to float collar. Test casing to 1500 PSI. Drill float equipment, cement and 10' of new hole. Circulate and condition mud. Test casing shoe to leak off. Squeeze if necessary to obtain a 17.0 ppg equivalent mud weight test. POOH.
17. PU new BHA and directionally drill 6-3/4 " hole to 14,900' tvd ($\pm 13,500'$ md) according to Multi-shot directional plan. Short trip as necessary. Check all breaks for flow. Circulate out if necessary. At TD, short trip into 7-5/8" casing. Circulate and condition mud to log. POOH.
18. RU Schlumberger. Run triple combo and additional logs as directed. RD Schlumberger.
19. GIH and condition mud to run production liner. POOH LD 3-1/2" Drill pipe and BHA.
20. RU casing crew and tongs. PU and GIH with 5" double float guide shoe, 2 jts 5" 18.00 ppf P-110 LTC casing, latch in collar, remaining 5" 18.00 ppf P-110 LTC casing, 5" by 7-5/8" tandem cone liner hanger with tie-back receptacle, setting tool and drill pipe. Run wipers and centralization as directed. On bottom, RU cementing manifold and circulate with rig pump. Notify Railroad Commission prior to running casing.
21. Switch to BJ cementing unit and cement as directed. Reciprocate liner until plug bumps. Set hanger and release from liner. POOH with ten stands of drill pipe. WOC 12 hrs. POOH with drill pipe. LD setting tool. PU and GIH with 6-3/4" bit, heavi-wate and drill pipe. Tag cement. After 24 from end of cement job, drill cement to dress off top of liner. Shut in annular and test liner top to 20 ppg emw. POOH. LD drill pipe and heavi-wate.
22. ND BOPS. Install blanking flange. Clean tanks. Release rig. RDMO Rig. Prepare for completion.

**OPERATING RULES
PADRE ISLAND NATIONAL SEASHORE**

1. All activities must be conducted in a manner that minimizes disturbances to the land, natural resources, wildlife, and people at PINS.
2. All vehicles must check in at guard gate entrance to PINS. All vehicles should have identification tags.
3. Obey speed limits at all times. Speed limits are posted on paved roads and along beach. Failure to obey speed limits is grounds for permanent removal from PINS.
4. No firearms allowed inside PINS boundaries
5. No alcohol allowed inside PINS boundaries
6. Absolutely no hunting, feeding or otherwise intentionally disturbing any wildlife within PINS boundaries shall be permitted.
7. Safety first. BNP will coordinate regular safety meetings during operations. All activities should be undertaken only after consideration of the safety issues associated therewith.
8. Any and all incidental spills or unauthorized releases should be immediately reported to BNP (Bo Waters) and to PINS. Additionally, the following procedures should be followed in the event of a spill or unauthorized release:
 - A. Shut down all operations to the structure that has failed.
 - B. Identify the leaking product and evaluate the situation for personnel and public safety hazards.
 - C. Investigate and determine quantity of discharge, time of spill, location of spill, causes of spill and source of spill.
 - D. Contact discharge clean up organization.
 - E. Secure the source and transfer the product to another storage tank, utilizing the proper personnel and protection equipment.
 - F. Contact all necessary Federal, State and Local agencies within one hour of spill.
 - G. Contact other companies to assist in clean up and repair operations.
 - H. Begin preparation for product recovery.
9. All personnel shall be restricted to designated routes to and from location, any marked staging areas and the location itself. Personnel should refrain from occupying any other portion of PINS other than the designated areas.
10. No unauthorized visitors, guests, or third parties shall be permitted on location or inside PINS.
11. Litter will not be tolerated. All trash shall be placed in receptacles and removed from PINS.
12. All vehicles must drive above the "wet line" while traveling down the beach road.
13. All vehicles must sign in and out with BNP dispatcher at located at the south end of the Malaquite Visitor Center parking lot prior to proceeding to location.

14. While working in PINS, notify PINS personnel of discovery or disturbance of archeological artifacts, endangered species, or hazardous materials. Mark the location of the discovery before leaving the site.
15. Prior to commencement of operations, representatives of all contractors and sub-contractors anticipated to be used in the operation will attend a pre-work meeting to review safety and resource concerns specific to the operation in question.
16. To the extent feasible, employees, contractors and sub-contractors shall carpool to and from location in order to reduce vehicular traffic along the beach.

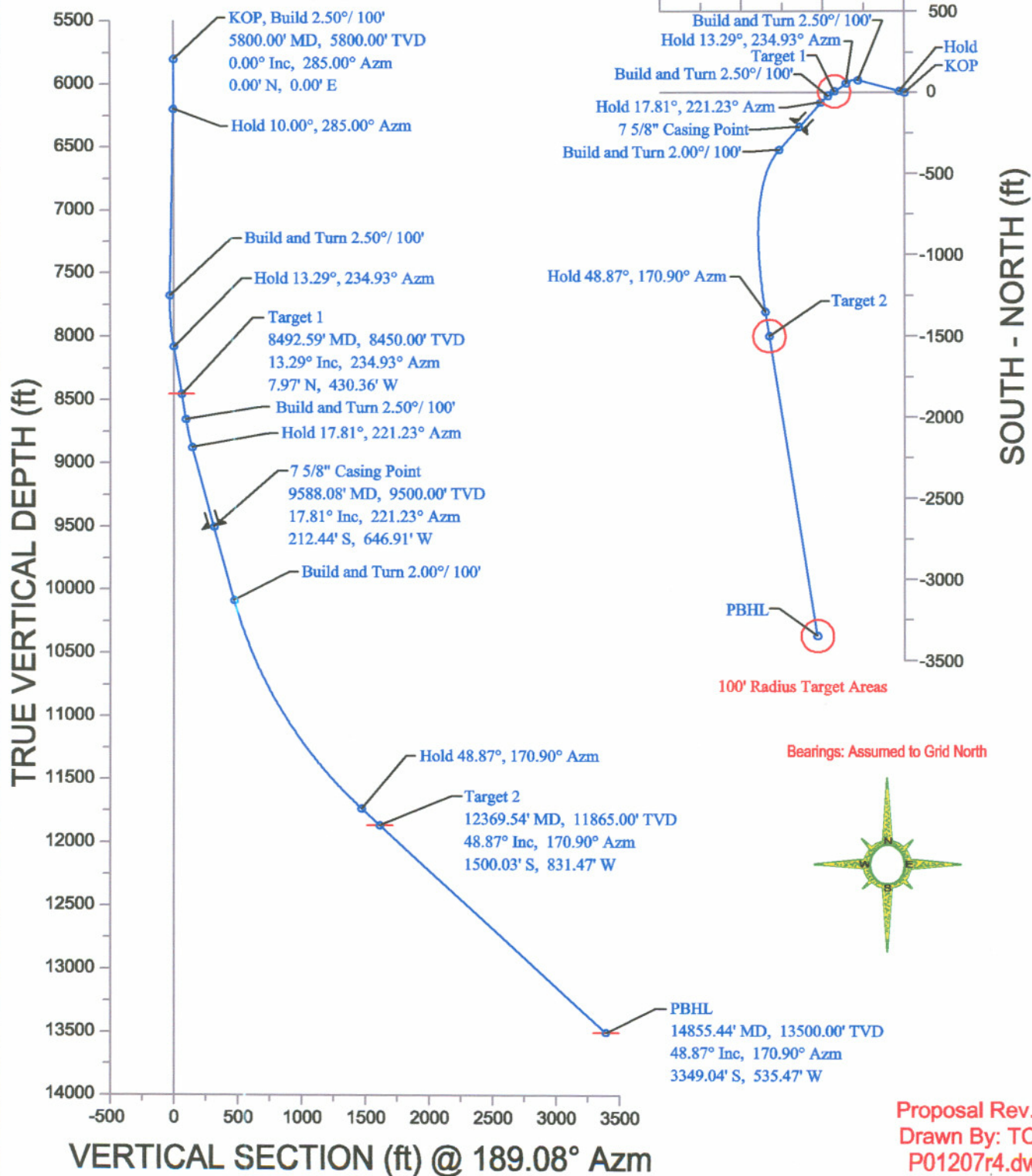
Company: BNP Petroleum Corporation
 Lease/Well: Dunn - Murdock, Well No. 1
 Location: Kenedy County
 State/Country: Texas

BNP Petroleum Corporation

Date: January 29, 2002
 Rig Name: Patterson #9
 Grid: Assumed to Grid North
 Declination:

multi-SH • T

A BWWC Company





Job Number: P01-207
 Company: BNP Petroleum
 Lease/Well: Dunn- Murdock, Well No.1
 Location: Kenedy County
 Rig Name: Unknown
 RKB:
 G.L. or M.S.L.:

State/Country: Texas
 Declination:
 Grid:
 File name: G:\WELLPL~1\2001\P01200\S\IP01207\01207.SVY
 Date/Time: 29-Jan-02 / 07:59
 Curve Name: Proposal Rev. 4 (Grid)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 189.08
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100	Grid X FT	Grid Y FT
Distance FT	Direction Deg										
KOP, Build 2.50°/ 100'											
5800.00	.00	285.00	5800.00	.00	.00	.00	.00	.00	.00	2364085.46	560514.03
5820.00	.50	285.00	5820.00	.02	-.08	-.01	.09	285.01	2.50	2364085.38	560514.05
5840.00	1.00	285.00	5840.00	.09	-.34	-.04	.35	285.00	2.50	2364085.12	560514.12
5860.00	1.50	285.00	5859.99	.20	-.76	-.08	.79	285.00	2.50	2364084.70	560514.23
5880.00	2.00	285.00	5879.98	.36	-1.35	-.14	1.40	285.00	2.50	2364084.11	560514.39
5900.00	2.50	285.00	5899.97	.56	-2.11	-.22	2.18	285.00	2.50	2364083.35	560514.59
5920.00	3.00	285.00	5919.95	.81	-3.03	-.32	3.14	285.00	2.50	2364082.43	560514.84
5940.00	3.50	285.00	5939.91	1.11	-4.13	-.44	4.27	285.00	2.50	2364081.33	560515.14
5960.00	4.00	285.00	5959.87	1.44	-5.39	-.58	5.58	285.00	2.50	2364080.07	560515.47
5980.00	4.50	285.00	5979.82	1.83	-6.82	-.73	7.06	285.00	2.50	2364078.64	560515.86
6000.00	5.00	285.00	5999.75	2.26	-8.42	-.90	8.72	285.00	2.50	2364077.04	560516.29

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100	Grid X FT	Grid Y FT
							Distance FT	Direction Deg			
6020.00	5.50	285.00	6019.66	2.73	-10.19	-1.09	10.55	285.00	2.50	2364075.27	560516.76
6040.00	6.00	285.00	6039.56	3.25	-12.13	-1.29	12.55	285.00	2.50	2364073.33	560517.28
6060.00	6.50	285.00	6059.44	3.81	-14.23	-1.52	14.73	285.00	2.50	2364071.23	560517.84
6080.00	7.00	285.00	6079.30	4.42	-16.50	-1.76	17.08	285.00	2.50	2364068.96	560518.45
6100.00	7.50	285.00	6099.14	5.07	-18.94	-2.02	19.61	285.00	2.50	2364066.52	560519.10
6120.00	8.00	285.00	6118.96	5.77	-21.54	-2.30	22.30	285.00	2.50	2364063.92	560519.80
6140.00	8.50	285.00	6138.75	6.52	-24.32	-2.60	25.17	285.00	2.50	2364061.14	560520.55
6160.00	9.00	285.00	6158.52	7.30	-27.25	-2.91	28.22	285.00	2.50	2364058.21	560521.33
6180.00	9.50	285.00	6178.26	8.13	-30.36	-3.24	31.43	285.00	2.50	2364055.10	560522.16
Hold 10.00°, 285.00° Azm											
6200.00	10.00	285.00	6197.97	9.01	-33.63	-3.59	34.82	285.00	2.50	2364051.83	560523.04
Build and Turn 2.50°/ 100'											
7700.00	10.00	285.00	7675.18	76.43	-285.23	-30.46	295.29	285.00	.00	2363800.23	560590.46
7720.00	9.95	282.13	7694.88	77.24	-288.59	-30.73	298.75	284.98	2.50	2363796.87	560591.27
7740.00	9.92	279.24	7714.58	77.88	-291.98	-30.82	302.19	284.93	2.50	2363793.48	560591.91
7760.00	9.91	276.33	7734.28	78.34	-295.39	-30.75	305.61	284.85	2.50	2363790.07	560592.37
7780.00	9.93	273.43	7753.98	78.64	-298.83	-30.49	309.00	284.74	2.50	2363786.63	560592.67
7800.00	9.98	270.55	7773.68	78.76	-302.28	-30.07	312.37	284.60	2.50	2363783.18	560592.79
7820.00	10.05	267.70	7793.38	78.70	-305.75	-29.47	315.72	284.44	2.50	2363779.71	560592.73
7840.00	10.14	264.90	7813.07	78.48	-309.25	-28.69	319.05	284.24	2.50	2363776.21	560592.51
7860.00	10.26	262.15	7832.75	78.08	-312.77	-27.74	322.37	284.02	2.50	2363772.69	560592.11
7880.00	10.40	259.47	7852.43	77.50	-316.31	-26.62	325.66	283.77	2.50	2363769.15	560591.53
7900.00	10.56	256.87	7872.10	76.76	-319.86	-25.32	328.94	283.49	2.50	2363765.60	560590.79
7920.00	10.74	254.35	7891.75	75.84	-323.44	-23.85	332.21	283.20	2.50	2363762.02	560589.87
7940.00	10.94	251.91	7911.40	74.75	-327.04	-22.20	335.47	282.87	2.50	2363758.42	560588.78
7960.00	11.16	249.57	7931.03	73.48	-330.66	-20.38	338.72	282.53	2.50	2363754.80	560587.51
7980.00	11.40	247.32	7950.64	72.05	-334.29	-18.39	341.97	282.16	2.50	2363751.17	560586.08
8000.00	11.65	245.16	7970.24	70.44	-337.95	-16.22	345.21	281.77	2.50	2363747.51	560584.47
8020.00	11.92	243.09	7989.82	68.65	-341.62	-13.88	348.45	281.36	2.50	2363743.84	560582.68
8040.00	12.20	241.12	8009.37	66.70	-345.32	-11.37	351.70	280.93	2.50	2363740.14	560580.73
8060.00	12.50	239.24	8028.91	64.57	-349.03	-8.68	354.95	280.48	2.50	2363736.43	560578.60
8080.00	12.81	237.45	8048.43	62.27	-352.75	-5.82	358.21	280.01	2.50	2363732.71	560576.30
8100.00	13.13	235.74	8067.92	59.80	-356.50	-2.79	361.48	279.52	2.50	2363728.96	560573.83

INSDOCUMENT# 499

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100	Grid X FT	Grid Y FT
Hold 13.29°, 234.93° Azm											
8109.77	13.29	234.93	8077.43	58.53	-358.34	-1.24	363.08	279.28	2.50	2363727.12	560572.56
Target 1											
8492.59	13.29	234.93	8450.00	7.97	-430.36	60.05	430.43	271.06	.00	2363655.10	560522.00
Build and Turn 2.50°/ 100'											
8700.00	13.29	234.93	8651.86	-19.42	-469.38	93.25	469.78	267.63	.00	2363616.08	560494.61
8720.00	13.64	233.41	8671.31	-22.15	-473.16	96.54	473.68	267.32	2.50	2363612.30	560491.88
8740.00	14.00	231.97	8690.73	-25.05	-476.96	100.00	477.61	266.99	2.50	2363608.50	560488.98
8760.00	14.37	230.59	8710.12	-28.11	-480.78	103.63	481.60	266.65	2.50	2363604.68	560485.92
8780.00	14.75	229.29	8729.47	-31.35	-484.63	107.44	485.64	266.30	2.50	2363600.83	560482.68
8800.00	15.14	228.05	8748.80	-34.76	-488.50	111.41	489.74	265.93	2.50	2363596.96	560479.27
8820.00	15.53	226.87	8768.09	-38.33	-492.40	115.56	493.89	265.55	2.50	2363593.06	560475.70
8840.00	15.92	225.75	8787.34	-42.08	-496.32	119.87	498.10	265.15	2.50	2363589.14	560471.95
8860.00	16.33	224.68	8806.55	-45.99	-500.26	124.36	502.37	264.75	2.50	2363585.20	560468.04
8880.00	16.73	223.66	8825.72	-50.07	-504.22	129.02	506.70	264.33	2.50	2363581.24	560463.96
8900.00	17.15	222.69	8844.86	-54.32	-508.21	133.84	511.10	263.90	2.50	2363577.25	560459.71
8920.00	17.56	221.76	8863.95	-58.74	-512.22	138.84	515.57	263.46	2.50	2363573.24	560455.29
Hold 17.81°, 221.23° Azm											
8932.04	17.81	221.23	8875.41	-61.48	-514.64	141.92	518.30	263.19	2.50	2363570.82	560452.55
7 5/8" Csg Pnt											
9588.08	17.81	221.23	9500.00	-212.44	-646.91	311.87	680.90	251.82	.00	2363438.55	560301.59
Build and Turn 2.00°/ 100'											
10202.18	17.81	221.23	10084.65	-353.74	-770.73	470.94	848.03	245.35	.00	2363314.73	560160.29
10222.18	17.98	220.04	10103.69	-358.41	-774.73	476.18	853.62	245.17	2.00	2363310.73	560155.62
10242.18	18.15	218.88	10122.70	-363.20	-778.67	481.53	859.21	244.99	2.00	2363306.79	560150.83
10262.18	18.33	217.74	10141.69	-368.11	-782.56	486.99	864.81	244.81	2.00	2363302.90	560145.92
10282.18	18.52	216.61	10160.67	-373.15	-786.37	492.57	870.42	244.61	2.00	2363299.09	560140.88
10302.18	18.71	215.52	10179.62	-378.31	-790.13	498.26	876.03	244.42	2.00	2363295.33	560135.72
10322.18	18.91	214.44	10198.56	-383.59	-793.83	504.06	881.65	244.21	2.00	2363291.63	560130.44
10342.18	19.12	213.39	10217.46	-389.00	-797.46	509.97	887.28	244.00	2.00	2363288.00	560125.03
10362.18	19.33	212.35	10236.35	-394.53	-801.04	516.00	892.92	243.78	2.00	2363284.42	560119.50

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100	Grid X FT	Grid Y FT
10382.18	19.54	211.34	10255.21	-400.18	-804.55	522.13	898.58	243.55	2.00	2363280.91	560113.85
10402.18	19.76	210.35	10274.05	-405.96	-808.00	528.38	904.24	243.32	2.00	2363277.46	560108.07
10422.18	19.99	209.38	10292.85	-411.85	-811.38	534.74	909.93	243.09	2.00	2363274.08	560102.18
10442.18	20.22	208.44	10311.63	-417.87	-814.71	541.21	915.62	242.85	2.00	2363270.75	560096.16
10462.18	20.46	207.51	10330.39	-424.01	-817.97	547.78	921.33	242.60	2.00	2363267.49	560090.02
10482.18	20.70	206.61	10349.11	-430.27	-821.17	554.47	927.06	242.35	2.00	2363264.29	560083.76
10502.18	20.95	205.72	10367.80	-436.66	-824.30	561.27	932.81	242.09	2.00	2363261.16	560077.37
10522.18	21.20	204.86	10386.47	-443.16	-827.37	568.18	938.58	241.83	2.00	2363258.09	560070.87
10542.18	21.46	204.01	10405.10	-449.78	-830.38	575.19	944.37	241.56	2.00	2363255.08	560064.25
10562.18	21.72	203.18	10423.69	-456.52	-833.33	582.31	950.18	241.28	2.00	2363252.13	560057.51
10582.18	21.98	202.38	10442.26	-463.39	-836.21	589.55	956.02	241.01	2.00	2363249.25	560050.64
10602.18	22.25	201.59	10460.78	-470.37	-839.03	596.89	961.88	240.72	2.00	2363246.43	560043.66
10622.18	22.52	200.81	10479.28	-477.47	-841.78	604.33	967.77	240.44	2.00	2363243.68	560036.56
10642.18	22.80	200.06	10497.73	-484.69	-844.47	611.89	973.68	240.15	2.00	2363240.99	560029.34
10662.18	23.07	199.32	10516.15	-492.03	-847.10	619.55	979.62	239.85	2.00	2363238.36	560022.00
10682.18	23.36	198.60	10534.53	-499.48	-849.66	627.31	985.60	239.55	2.00	2363235.80	560014.55
10702.18	23.64	197.90	10552.88	-507.06	-852.16	635.18	991.60	239.25	2.00	2363233.30	560006.97
10722.18	23.93	197.21	10571.18	-514.75	-854.59	643.16	997.64	238.94	2.00	2363230.87	559999.28
10742.18	24.22	196.54	10589.44	-522.55	-856.96	651.24	1003.71	238.63	2.00	2363228.50	559991.48
10762.18	24.51	195.88	10607.66	-530.48	-859.26	659.43	1009.82	238.31	2.00	2363226.20	559983.55
10782.18	24.81	195.24	10625.83	-538.52	-861.50	667.72	1015.96	237.99	2.00	2363223.96	559975.51
10802.18	25.11	194.61	10643.96	-546.67	-863.67	676.12	1022.14	237.67	2.00	2363221.79	559967.36
10822.18	25.41	194.00	10662.05	-554.94	-865.78	684.62	1028.36	237.34	2.00	2363219.68	559959.09
10842.18	25.72	193.39	10680.09	-563.33	-867.82	693.22	1034.63	237.01	2.00	2363217.64	559950.70
10862.18	26.02	192.81	10698.09	-571.83	-869.80	701.93	1040.93	236.68	2.00	2363215.66	559942.20
10882.18	26.33	192.23	10716.04	-580.44	-871.71	710.73	1047.28	236.34	2.00	2363213.75	559933.59
10902.18	26.64	191.67	10733.94	-589.17	-873.56	719.64	1053.67	236.00	2.00	2363211.90	559924.86
10922.18	26.96	191.12	10751.79	-598.01	-875.34	728.65	1060.11	235.66	2.00	2363210.12	559916.02
10942.18	27.27	190.58	10769.59	-606.96	-877.06	737.77	1066.60	235.32	2.00	2363208.40	559907.07
10962.18	27.59	190.05	10787.34	-616.03	-878.71	746.98	1073.13	234.97	2.00	2363206.75	559898.00
10982.18	27.91	189.54	10805.04	-625.20	-880.29	756.29	1079.72	234.62	2.00	2363205.17	559888.83
11002.18	28.23	189.03	10822.69	-634.49	-881.81	765.70	1086.35	234.26	2.00	2363203.65	559879.54
11022.18	28.56	188.54	10840.28	-643.89	-883.26	775.21	1093.04	233.91	2.00	2363202.20	559870.14
11042.18	28.88	188.05	10857.82	-653.40	-884.65	784.82	1099.79	233.55	2.00	2363200.81	559860.63

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100	Grid X FT	Grid Y FT
							Distance FT	Direction Deg			
11062.18	29.21	187.58	10875.31	-663.02	-885.97	794.53	1106.59	233.19	2.00	2363199.49	559851.01
11082.18	29.54	187.11	10892.74	-672.75	-887.22	804.33	1113.44	232.83	2.00	2363198.24	559841.28
11102.18	29.87	186.66	10910.11	-682.59	-888.41	814.24	1120.35	232.46	2.00	2363197.05	559831.44
11122.18	30.20	186.21	10927.42	-692.53	-889.53	824.24	1127.33	232.10	2.00	2363195.93	559821.50
11142.18	30.53	185.77	10944.68	-702.59	-890.58	834.33	1134.36	231.73	2.00	2363194.88	559811.44
11162.18	30.87	185.34	10961.88	-712.75	-891.57	844.52	1141.45	231.36	2.00	2363193.89	559801.28
11182.18	31.20	184.92	10979.01	-723.02	-892.50	854.81	1148.61	230.99	2.00	2363192.96	559791.01
11202.18	31.54	184.51	10996.09	-733.40	-893.35	865.19	1155.83	230.62	2.00	2363192.11	559780.63
11222.18	31.88	184.10	11013.10	-743.88	-894.14	875.67	1163.12	230.24	2.00	2363191.32	559770.15
11242.18	32.22	183.71	11030.06	-754.47	-894.86	886.24	1170.47	229.87	2.00	2363190.60	559759.56
11262.18	32.56	183.32	11046.94	-765.16	-895.52	896.90	1177.89	229.49	2.00	2363189.94	559748.87
11282.18	32.90	182.93	11063.77	-775.96	-896.11	907.65	1185.38	229.11	2.00	2363189.35	559738.07
11302.18	33.25	182.56	11080.53	-786.86	-896.63	918.50	1192.94	228.73	2.00	2363188.83	559727.17
11322.18	33.59	182.19	11097.22	-797.87	-897.09	929.44	1200.56	228.35	2.00	2363188.37	559716.16
11342.18	33.94	181.83	11113.85	-808.98	-897.48	940.47	1208.26	227.97	2.00	2363187.98	559705.05
11362.18	34.28	181.47	11130.41	-820.19	-897.80	951.59	1216.04	227.59	2.00	2363187.66	559693.84
11382.18	34.63	181.12	11146.90	-831.50	-898.05	962.80	1223.88	227.20	2.00	2363187.41	559682.53
11402.18	34.98	180.78	11163.32	-842.91	-898.24	974.10	1231.80	226.82	2.00	2363187.22	559671.12
11422.18	35.33	180.44	11179.67	-854.43	-898.36	985.49	1239.80	226.44	2.00	2363187.10	559659.60
11442.18	35.68	180.11	11195.95	-866.04	-898.42	996.97	1247.87	226.05	2.00	2363187.04	559647.99
11462.18	36.03	179.78	11212.16	-877.76	-898.41	1008.54	1256.02	225.67	2.00	2363187.05	559636.27
11482.18	36.38	179.46	11228.30	-889.57	-898.33	1020.19	1264.25	225.28	2.00	2363187.13	559624.46
11502.18	36.74	179.15	11244.37	-901.48	-898.19	1031.93	1272.56	224.90	2.00	2363187.27	559612.55
11522.18	37.09	178.84	11260.36	-913.49	-897.97	1043.76	1280.95	224.51	2.00	2363187.49	559600.54
11542.18	37.44	178.53	11276.27	-925.60	-897.70	1055.67	1289.42	224.12	2.00	2363187.76	559588.43
11562.18	37.80	178.23	11292.12	-937.80	-897.35	1067.67	1297.97	223.74	2.00	2363188.11	559576.23
11582.18	38.16	177.93	11307.88	-950.10	-896.94	1079.75	1306.60	223.35	2.00	2363188.52	559563.93
11602.18	38.51	177.64	11323.57	-962.50	-896.46	1091.91	1315.31	222.97	2.00	2363189.00	559551.53
11622.18	38.87	177.36	11339.18	-974.99	-895.91	1104.16	1324.11	222.58	2.00	2363189.55	559539.04
11642.18	39.23	177.08	11354.71	-987.58	-895.30	1116.49	1332.99	222.19	2.00	2363190.16	559526.45
11662.18	39.59	176.80	11370.16	-1000.25	-894.62	1128.90	1341.96	221.81	2.00	2363190.84	559513.78
11682.18	39.95	176.52	11385.54	-1013.03	-893.88	1141.40	1351.02	221.42	2.00	2363191.58	559501.00
11702.18	40.31	176.26	11400.83	-1025.89	-893.07	1153.97	1360.15	221.04	2.00	2363192.39	559488.14
11722.18	40.67	175.99	11416.04	-1038.85	-892.19	1166.63	1369.38	220.66	2.00	2363193.27	559475.18

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100	Grid X FT	Grid Y FT
							Distance FT	Direction Deg			
11742.18	41.03	175.73	11431.17	-1051.89	-891.24	1179.36	1378.69	220.27	2.00	2363194.22	559462.14
11762.18	41.39	175.47	11446.21	-1065.03	-890.23	1192.18	1388.10	219.89	2.00	2363195.23	559449.00
11782.18	41.76	175.22	11461.17	-1078.26	-889.16	1205.07	1397.58	219.51	2.00	2363196.30	559435.77
11802.18	42.12	174.97	11476.05	-1091.58	-888.01	1218.04	1407.16	219.13	2.00	2363197.45	559422.45
11822.18	42.48	174.72	11490.84	-1104.98	-886.80	1231.09	1416.83	218.75	2.00	2363198.66	559409.05
11842.18	42.85	174.47	11505.55	-1118.48	-885.52	1244.21	1426.59	218.37	2.00	2363199.94	559395.55
11862.18	43.21	174.23	11520.17	-1132.06	-884.18	1257.41	1436.43	217.99	2.00	2363201.28	559381.97
11882.18	43.58	174.00	11534.70	-1145.73	-882.77	1270.68	1446.37	217.61	2.00	2363202.69	559368.30
11902.18	43.94	173.76	11549.15	-1159.48	-881.30	1284.03	1456.39	217.24	2.00	2363204.16	559354.55
11922.18	44.31	173.53	11563.50	-1173.32	-879.76	1297.46	1466.51	216.86	2.00	2363205.70	559340.71
11942.18	44.68	173.30	11577.77	-1187.25	-878.15	1310.95	1476.72	216.49	2.00	2363207.31	559326.78
11962.18	45.04	173.08	11591.95	-1201.25	-876.48	1324.52	1487.02	216.12	2.00	2363208.98	559312.78
11982.18	45.41	172.86	11606.03	-1215.34	-874.74	1338.16	1497.41	215.74	2.00	2363210.72	559298.69
12002.18	45.78	172.64	11620.03	-1229.52	-872.94	1351.87	1507.89	215.37	2.00	2363212.52	559284.51
12022.18	46.15	172.42	11633.93	-1243.77	-871.07	1365.65	1518.46	215.01	2.00	2363214.39	559270.26
12042.18	46.52	172.21	11647.74	-1258.11	-869.13	1379.51	1529.13	214.64	2.00	2363216.33	559255.92
12062.18	46.89	172.00	11661.46	-1272.53	-867.13	1393.43	1539.89	214.27	2.00	2363218.33	559241.50
12082.18	47.26	171.79	11675.08	-1287.03	-865.07	1407.42	1550.74	213.91	2.00	2363220.39	559227.00
12102.18	47.63	171.58	11688.60	-1301.60	-862.94	1421.48	1561.68	213.54	2.00	2363222.52	559212.43
12122.18	48.00	171.38	11702.04	-1316.26	-860.74	1435.60	1572.71	213.18	2.00	2363224.72	559197.77
12142.18	48.37	171.18	11715.37	-1330.99	-858.48	1449.79	1583.83	212.82	2.00	2363226.98	559183.04
12162.18	48.74	170.98	11728.61	-1345.80	-856.16	1464.05	1595.05	212.46	2.00	2363229.30	559168.23
Hold 48.87°, 170.90° Azm											
12169.55	48.87	170.90	11733.46	-1351.27	-855.28	1469.32	1599.20	212.33	2.00	2363230.18	559162.76
Target 2											
12369.54	48.87	170.90	11865.00	-1500.03	-831.47	1612.45	1715.06	209.00	.00	2363253.99	559014.00
PBHL											
14855.44	48.87	170.90	13500.00	-3349.04	-535.47	3391.58	3391.58	189.08	.00	2363549.99	557164.99

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