

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Black Hills Gas Resources

3a. Address
3200 N 1st Street PO Box 249 Bloomfield, NM 87413

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 1805' FNL 665' FWL SW/NW Unit E Sec16 T30N R03W
Bottom Hole: ±600' FNL ±50' FWL NW/NW Unit D Sec17 T30N R03W

NOV 13 2007

Bureau of Land Management
Farmington Field Office
Phone No. (include area code)
505-634-1111 ext 27

5. Lease Serial No.
Contract 460

6. If Indian, Allottee, or Tribe Name
Jicarilla Apache

7. If Unit or CA. Agreement Name and/or No.

8. Well Name and No.
Jicarilla 460-16 #721

9. API Well No.
30-039-30171

10. Field and Pool, or Exploratory Area
E. Blanco/Pictured Cliffs

11. County or Parish, State
Rio Arriba, New Mexico

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/ Resume)	☐ Water Shut-off
☐ Subsequent Report	☐ Altering Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and abandon	☐ Temporarily Abandon	Convert Dakota well
	☐ Convert to Injection	☐ Plug back	☐ Water Disposal	to horizontal PC

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleting horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The initial APD well was been submitted as a Dakota well and is pending BLM approval. After evaluation of data from recently drilled wells in the immediate area, it has been determined that the PC formation is best developed in this area, using Horizontal Drilling Technology. Black Hills Gas Resources is submitting an updated drilling plan and a revised NM State Form C-102, to change the well from a vertical Dakota well to a horizontal PC well. Black Hills Gas Resources also request that if tests of the tertiary are favorable that we will also complete these formations and submit comingle applications if needed.

The surface location of the well remains the same but the new bottom hole will be ±600' FNL ±50' FWL NW/NW Unit D

RCVD NOV 16 '07

Surface disturbance will not change from the initial APD, therefore the Surface Use Plan will not be updated or modified.

HOLD C104 FOR DIRECTORIAL REVIEW, Change of status to #24 in ULH
Change of status to #8 in UL D, as drilled C-102 form

14. I hereby certify that the foregoing is true and correct.
Name (Printed/ Typed)

Lynn H. Benally

Title

Regulatory Specialist

Signature

Date

Nov 13, 2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCD

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
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 72400	³ Pool Name EAST BLANCO PICTURED CLIFFS
⁴ Property Code	⁵ Property Name JICARILLA 460-16	⁶ Well Number 721
⁷ OGRID No. 013925	⁸ Operator Name BLACK HILLS GAS RESOURCES	⁹ Elevation 7167

¹⁰ Surface Location

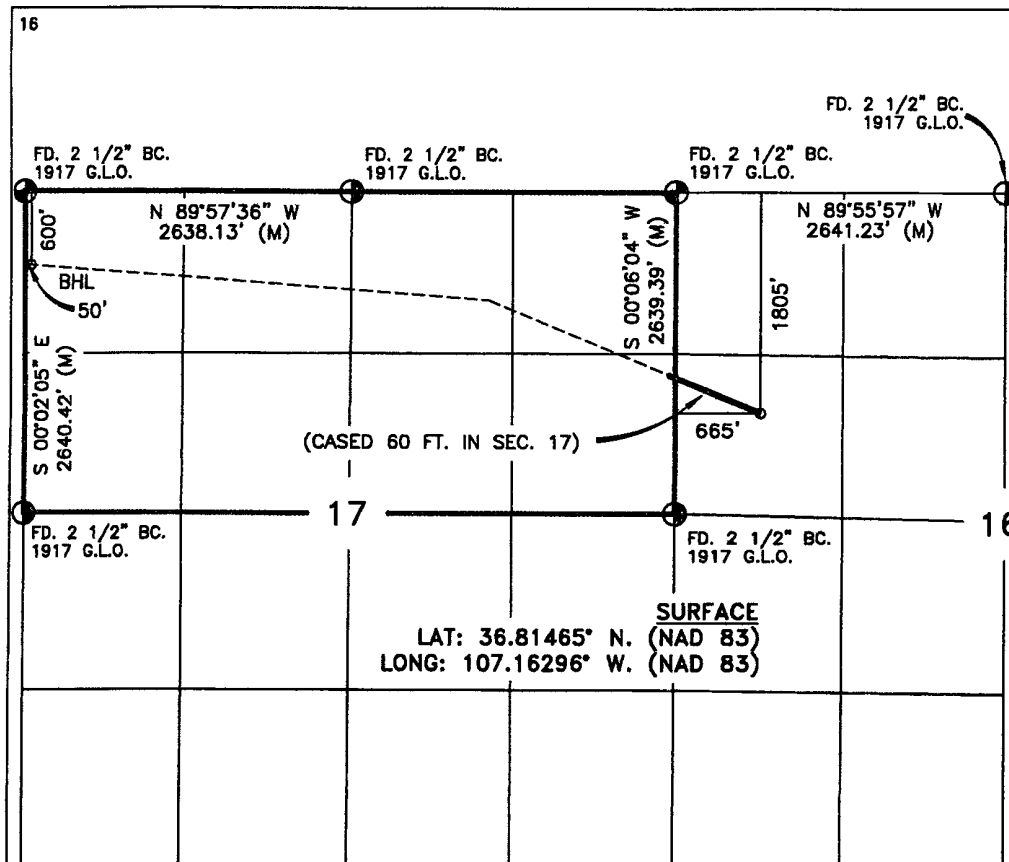
UL or lot no. E	Section 16	Township 30-N	Range 3-W	Lot Idn	Feet from the 1805	North/South line NORTH	Feet from the 665	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 17	Township 30-N	Range 3-W	Lot Idn	Feet from the 600	North/South line NORTH	Feet from the 50	East/West line WEST	County RIO ARriba
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R12707-INFILL
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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



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OPERATOR CERTIFICATION

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 at 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 division.

[Signature] Nov 13, 2007
Signature Date
Lynn H. Benally
Printed Name

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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 Surveyor

Certificate Number



Black Hills Gas Resources

Jicarilla 460-16 #721

Surface Location: 1,805' FNL 665' FWL Unit E (SW/NW)

Sec. 16 T30N R03W

Bottom Hole Location: $\pm 600'$ FNL $\pm 50'$ FWL Unit D (NW/NW)

Sec. 17 T30N R03W

Rio Arriba County, New Mexico

Lease: Contract 460 / 459

DRILLING PROGRAM

(Per Rule 320)

This Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This APD process includes an onsite meeting which was held on December 5, 2006 as determined by Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA) and Jicarilla Oil & Gas Administration (JOGA), and at which time the specific concerns of Black Hills Gas Resources (BHGR) were discussed.

This well has been permitted as a Dakota well. This new drilling plan addresses changing the un-drilled well to a horizontal PC well.

SURFACE FORMATION – San Jose

GROUND ELEVATION –7,167'

ESTIMATED FORMATION TOPS - (mineral-bearing formations)

San Jose	Surface	Sandstone, shales & siltstones
Nacimientos	2065'	Sandstone, shales & siltstones
Ojo Alamo	3155'	Sandstone, shales & siltstones
Kirtland	3440'	Sandstone, shales & siltstones
Fruitland	3740'	Sandstone, shales & siltstones
Pictured Cliffs	4420'	Sandstone, shales & siltstones

TOTAL DEPTH 9419'

Estimated depths of anticipated fresh water, oil, or gas:

Tertiary		
San Jose	surface	Gas
Nacimientos	2065'	Gas
Ojo Alamo	3155'	Gas
Kirtland	3440'	Gas
Fruitland	3740'	Gas
Pictured Cliffs	4420'	Gas

HORIZONTAL DRILLING PROGRAMKick Off Point is estimated to be $\pm 22893'$ TVD**CASING PROGRAM**

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' to 275'	12 1/4"	9 5/8"	J-55 36# ST&C	To surface (± 175 sxs classB)
0' to 4307'	8 3/4"	7"	J-55 23# ST & C	TD to surface (± 630 sxs lite or 65:35 poz and ± 270 sxs 50:50 poz)*
4307' to 9419'	6 1/8 "	Open hole***	none	none

* Actual cement volume to be determined by caliper log.

** Cement will be circulated to surface

*** If hole instability is encountered, a 4 1/2", 10.5#, J-55 uncemented liner may be run in the 6 1/4" open hole section

Yields:Surface: Standard cement yield = 1.2 ft³/sx (mixed at 15.6 lb/gal)Production: Lite Standard Cement yield: = 1.59 ft³/sx (mixed at 13.4 lb/gal)50:50 poz yield = 1.27 ft³/sx (mixed at 14.15 lb/gal)

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

PRESSURE CONTROL

BOPs and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating conditions. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to 1,000 psi. Annular type preventor will be pressure tested to 50% of the rated working pressure, not to exceed 1,000 psi. All casing strings will be pressure tested to 0.22 psi/ft. or 1,000 psi, whichever is greater, not to exceed 70% of internal yield.

BOP to be either double gate rams or an annular preventor as per Onshore Order No. 2.

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2M systems.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the BLM supervised BOP test.

MUD PROGRAM

0'	-	250'	Fresh water – M.W. 8.5 ppg, Vis 30-33
250'	-	TD'	Clean Faze - Low solids non-dispersed M.W. 8.5 – 9.2 ppg Vis – 28 – 50 sec W.L. 15cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain “kick” will be available at well site.

AUXILIARY EQUIPMENT

- A) A Kelly cock will be kept in the drill string at all times
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed

LOGGING, CORING, TESTING PROGRAM

- A) Logging: DIL- CNL-FDC-GR - TD - BSC (GR to surface)
Sonic (BSC to TD)
- B) Coring: None
- C) Testing: Possible DST – None anticipated. Drill stem tests may be run on shows of interest

ABNORMAL CONDITIONS

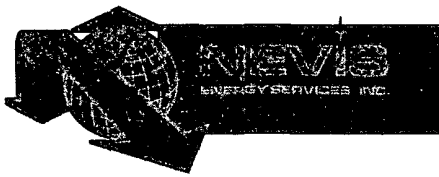
- A) Pressures: No abnormal conditions are anticipated
Bottom hole pressure gradient – 0.31 psi/ft
- B) Temperatures: No abnormal conditions are anticipated
- C) H₂S: See attached H₂S plan in event H₂S is encountered.
- D) Estimated bottomhole pressure: 1,190 psi

ANTICIPATED START DATE

November 26, 2007

COMPLETION

The location pad will be of sufficient size to accommodate all completion activities and equipment. A string of 2 3/8", J-55, 4.7#/ft tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.



1724-B Townhurst Dr, Houston, Tx 77043
(713) 827-8302
www.nevisenergy.com

Job Number: 71xxx
Company: Black Hills Gas Resources
Lease/Well: Jicarilla 460-16 #121
Location: Rio Arriba County, NM
Rig Name: Patt 744
RKB: 13'
G.L. or M.S.L.: 7151'

State/Country: NM/USA
Declination: □
Grid: □
File name: Z:\BLACKH~1\NEWWEL~1\460-16~2\46016121.SVY
Date/Time: 01-Nov-07 / 16:20
Curve Name: Jic 460-16 #121 plan 11-01-07

Jic 460-16 #121 plan 11-01-07

WINSERVE PROPOSAL REPORT
Minimum Curvature Method
Vertical Section Plane 281.56
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP-> 2893 TVD Begin Build @ 7.00°/ 100', 295° Azi									
2893.00	.00	295.00	2893.00	.00	.00	.00	.00	.00	.00
2923.00	2.10	295.00	2922.99	.53	.23	-.50	.55	295.00	7.00
2953.00	4.20	295.00	2952.95	2.14	.93	-1.99	2.20	295.00	7.00
2983.00	6.30	295.00	2982.82	4.81	2.09	-4.48	4.95	295.00	7.00
3013.00	8.40	295.00	3012.57	8.54	3.71	-7.96	8.78	295.00	7.00
3043.00	10.51	295.00	3042.16	13.34	5.80	-12.43	13.71	295.00	7.00
3073.00	12.61	295.00	3071.55	19.18	8.33	-17.87	19.72	295.00	7.00
3103.00	14.71	295.00	3100.70	26.07	11.33	-24.29	26.80	295.00	7.00
3133.00	16.81	295.00	3129.57	33.99	14.77	-31.68	34.95	295.00	7.00
3163.00	18.91	295.00	3158.13	42.94	18.66	-40.01	44.15	295.00	7.00
3193.00	21.01	295.00	3186.32	52.90	22.99	-49.29	54.39	295.00	7.00
3223.00	23.11	295.00	3214.12	63.86	27.75	-59.51	65.66	295.00	7.00
3253.00	25.21	295.00	3241.49	75.80	32.94	-70.63	77.94	295.00	7.00
3283.00	27.31	295.00	3268.40	88.71	38.55	-82.66	91.21	295.00	7.00
3313.00	29.41	295.00	3294.79	102.57	44.57	-95.58	105.46	295.00	7.00
3343.00	31.52	295.00	3320.65	117.37	51.00	-109.37	120.67	295.00	7.00
3373.00	33.62	295.00	3345.93	133.07	57.82	-124.00	136.82	295.00	7.00
3403.00	35.72	295.00	3370.60	149.67	65.03	-139.46	153.88	295.00	7.00
3433.00	37.82	295.00	3394.63	167.13	72.62	-155.74	171.84	295.00	7.00
3463.00	39.92	295.00	3417.99	185.44	80.58	-172.80	190.66	295.00	7.00
3493.00	42.02	295.00	3440.64	204.57	88.89	-190.63	210.33	295.00	7.00
3523.00	44.12	295.00	3462.56	224.50	97.55	-209.19	230.82	295.00	7.00
3553.00	46.22	295.00	3483.70	245.19	106.54	-228.47	252.09	295.00	7.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
3583.00	48.32	295.00	3504.06	266.62	115.85	-248.45	274.13	295.00	7.00
3613.00	50.42	295.00	3523.59	288.77	125.47	-269.08	296.90	295.00	7.00
3643.00	52.53	295.00	3542.27	311.59	135.39	-290.35	320.37	295.00	7.00
3673.00	54.63	295.00	3560.09	335.07	145.59	-312.23	344.50	295.00	7.00
3703.00	56.73	295.00	3577.00	359.17	156.06	-334.68	369.28	295.00	7.00
3733.00	58.83	295.00	3593.00	383.85	166.79	-357.68	394.66	295.00	7.00
3763.00	60.93	295.00	3608.05	409.09	177.76	-381.20	420.61	295.00	7.00
3793.00	63.03	295.00	3622.14	434.84	188.95	-405.20	447.09	295.00	7.00
3823.00	65.13	295.00	3635.26	461.09	200.35	-429.65	474.07	295.00	7.00
3853.00	67.23	295.00	3647.37	487.78	211.95	-454.52	501.51	295.00	7.00
3883.00	69.33	295.00	3658.47	514.88	223.73	-479.78	529.38	295.00	7.00
3913.00	71.43	295.00	3668.54	542.37	235.67	-505.39	557.64	295.00	7.00
3943.00	73.54	295.00	3677.57	570.19	247.76	-531.32	586.25	295.00	7.00
3973.00	75.64	295.00	3685.54	598.32	259.98	-557.53	615.17	295.00	7.00
4003.00	77.74	295.00	3692.45	626.71	272.32	-583.99	644.36	295.00	7.00
4033.00	79.84	295.00	3698.28	655.33	284.75	-610.65	673.78	295.00	7.00
4063.00	81.94	295.00	3703.03	684.14	297.27	-637.50	703.40	295.00	7.00
4093.00	84.04	295.00	3706.69	713.10	309.85	-664.48	733.18	295.00	7.00
Hold @ 85.00° for 200'									
4106.70	85.00	295.00	3708.00	726.36	315.62	-676.84	746.81	295.00	7.00
4206.70	85.00	295.00	3716.72	823.25	357.72	-767.13	846.43	295.00	.00
5' into PC, csg									
4306.70	85.00	295.00	3725.43	920.14	399.82	-857.42	946.05	295.00	.00
Begin Build and Turn @ 3.32°/ 100'									
4406.70	85.00	295.00	3734.15	1017.04	441.92	-947.70	1045.67	295.00	.00
4436.70	85.22	294.03	3736.70	1046.17	454.32	-974.90	1075.56	294.99	3.32
4466.70	85.44	293.05	3739.15	1075.41	466.26	-1002.31	1105.45	294.95	3.32
4496.70	85.66	292.08	3741.47	1104.77	477.74	-1029.93	1135.34	294.88	3.32
4526.70	85.89	291.11	3743.68	1134.23	488.75	-1057.75	1165.21	294.80	3.32
4556.70	86.11	290.14	3745.77	1163.79	499.29	-1085.76	1195.06	294.70	3.32
4586.70	86.34	289.16	3747.75	1193.42	509.36	-1113.95	1224.88	294.57	3.32
4616.70	86.57	288.19	3749.60	1223.14	518.95	-1142.31	1254.67	294.43	3.32
4646.70	86.80	287.22	3751.34	1252.91	528.06	-1170.84	1284.41	294.28	3.32
4676.70	87.03	286.25	3752.96	1282.75	536.68	-1199.53	1314.12	294.10	3.32
4706.70	87.26	285.28	3754.45	1312.63	544.82	-1228.37	1343.77	293.92	3.32
4736.70	87.49	284.31	3755.83	1342.55	552.48	-1257.34	1373.37	293.72	3.32
4766.70	87.72	283.35	3757.08	1372.50	559.64	-1286.44	1402.90	293.51	3.32
4796.70	87.95	282.38	3758.22	1402.47	566.32	-1315.67	1432.38	293.29	3.32
4826.70	88.18	281.41	3759.23	1432.45	572.50	-1345.01	1461.78	293.06	3.32
4856.70	88.42	280.44	3760.12	1462.44	578.18	-1374.45	1491.11	292.81	3.32
4886.70	88.65	279.47	3760.89	1492.41	583.36	-1403.99	1520.36	292.56	3.32
4916.70	88.89	278.51	3761.53	1522.38	588.05	-1433.61	1549.53	292.30	3.32
Target / Hold @ 89.04°, 277.88° Azm									
4936.15	89.04	277.88	3761.88	1541.79	590.82	-1452.86	1568.40	292.13	3.32

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4936.24	89.04	277.88	3761.89	1541.88	590.83	-1452.95	1568.49	292.13	.28
5036.24	89.04	277.88	3763.57	1641.66	604.54	-1551.99	1665.58	291.28	.00
5136.24	89.04	277.88	3765.25	1741.44	618.24	-1651.04	1762.99	290.53	.00
5236.24	89.04	277.88	3766.93	1841.22	631.95	-1750.08	1860.68	289.85	.00
5336.24	89.04	277.88	3768.61	1941.00	645.65	-1849.12	1958.60	289.25	.00
5436.24	89.04	277.88	3770.29	2040.78	659.36	-1948.16	2056.72	288.70	.00
5536.24	89.04	277.88	3771.97	2140.56	673.06	-2047.21	2155.01	288.20	.00
5636.24	89.04	277.88	3773.65	2240.34	686.77	-2146.25	2253.45	287.74	.00
5736.24	89.04	277.88	3775.33	2340.12	700.47	-2245.29	2352.02	287.33	.00
5836.24	89.04	277.88	3777.01	2439.90	714.18	-2344.33	2450.70	286.94	.00
5936.24	89.04	277.88	3778.69	2539.68	727.89	-2443.37	2549.49	286.59	.00
6036.24	89.04	277.88	3780.37	2639.45	741.59	-2542.42	2648.36	286.26	.00
6136.24	89.04	277.88	3782.05	2739.23	755.30	-2641.46	2747.32	285.96	.00
6236.24	89.04	277.88	3783.73	2839.01	769.00	-2740.50	2846.35	285.67	.00
6336.24	89.04	277.88	3785.41	2938.79	782.71	-2839.54	2945.44	285.41	.00
6436.24	89.04	277.88	3787.09	3038.57	796.41	-2938.58	3044.59	285.16	.00
6536.24	89.04	277.88	3788.77	3138.35	810.12	-3037.63	3143.80	284.93	.00
6636.24	89.04	277.88	3790.45	3238.13	823.82	-3136.67	3243.05	284.72	.00
6736.24	89.04	277.88	3792.13	3337.91	837.53	-3235.71	3342.35	284.51	.00
6836.24	89.04	277.88	3793.81	3437.69	851.23	-3334.75	3441.68	284.32	.00
6936.24	89.04	277.88	3795.49	3537.47	864.94	-3433.80	3541.05	284.14	.00
7036.24	89.04	277.88	3797.17	3637.25	878.64	-3532.84	3640.46	283.97	.00
7136.24	89.04	277.88	3798.85	3737.03	892.35	-3631.88	3739.90	283.80	.00
7236.24	89.04	277.88	3800.53	3836.81	906.05	-3730.92	3839.36	283.65	.00
7336.24	89.04	277.88	3802.21	3936.59	919.76	-3829.96	3938.86	283.50	.00
7436.24	89.04	277.88	3803.89	4036.37	933.46	-3929.01	4038.37	283.36	.00
7536.24	89.04	277.88	3805.57	4136.15	947.17	-4028.05	4137.91	283.23	.00
7636.24	89.04	277.88	3807.25	4235.93	960.87	-4127.09	4237.47	283.11	.00
7736.24	89.04	277.88	3808.93	4335.71	974.58	-4226.13	4337.05	282.99	.00
7836.24	89.04	277.88	3810.61	4435.49	988.28	-4325.17	4436.65	282.87	.00
7936.24	89.04	277.88	3812.29	4535.27	1001.99	-4424.22	4536.26	282.76	.00
8036.24	89.04	277.88	3813.97	4635.05	1015.69	-4523.26	4635.89	282.66	.00
8136.24	89.04	277.88	3815.65	4734.83	1029.40	-4622.30	4735.54	282.56	.00
8236.24	89.04	277.88	3817.33	4834.60	1043.10	-4721.34	4835.20	282.46	.00
8336.24	89.04	277.88	3819.01	4934.38	1056.81	-4820.39	4934.87	282.37	.00
8436.24	89.04	277.88	3820.69	5034.16	1070.51	-4919.43	5034.56	282.28	.00
8536.24	89.04	277.88	3822.37	5133.94	1084.22	-5018.47	5134.25	282.19	.00
8636.24	89.04	277.88	3824.05	5233.72	1097.92	-5117.51	5233.96	282.11	.00
8736.24	89.04	277.88	3825.73	5333.50	1111.63	-5216.55	5333.68	282.03	.00
8836.24	89.04	277.88	3827.41	5433.28	1125.33	-5315.60	5433.41	281.95	.00
8936.24	89.04	277.88	3829.09	5533.06	1139.04	-5414.64	5533.15	281.88	.00
9036.24	89.04	277.88	3830.77	5632.84	1152.74	-5513.68	5632.89	281.81	.00
9136.24	89.04	277.88	3832.45	5732.62	1166.45	-5612.72	5732.65	281.74	.00
9236.24	89.04	277.88	3834.13	5832.40	1180.16	-5711.76	5832.41	281.67	.00
9336.24	89.04	277.88	3835.81	5932.18	1193.86	-5810.81	5932.18	281.61	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Proposed End of Lateral									
9419.27	89.04	277.88	3837.20	6015.03	1205.24	-5893.04	6015.03	281.56	.00

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